



PRODUCING
NETWORK
PERFORMANCE



CATALOGUE 8/2017

DATA CENTRE

DATA NETWORK TECHNOLOGY

TELECOMMUNICATIONS

FIBER OPTIC TECHNOLOGY

NETWORK CABINETS

All of our catalogue products can also be found in the
ONLINE SHOP
www.cobinet.com/shop



ORDER ONLINE

Quick, convenient and uncomplicated.

- Prioritised order processing
- Intelligent product search
- Detailed information about all products
- Data sheets and tender documents

www.cobinet.com/shop



CobiNet Fernmelde- und Datennetzkomponenten GmbH

Robert-Bosch-Strasse 33
68542 Heddesheim, Germany

Telephone +49 (0)6203 4900-0
Telefax +49 (0)6203 4900-88
Internet www.cobinet.com
E-Mail info@cobinet.com



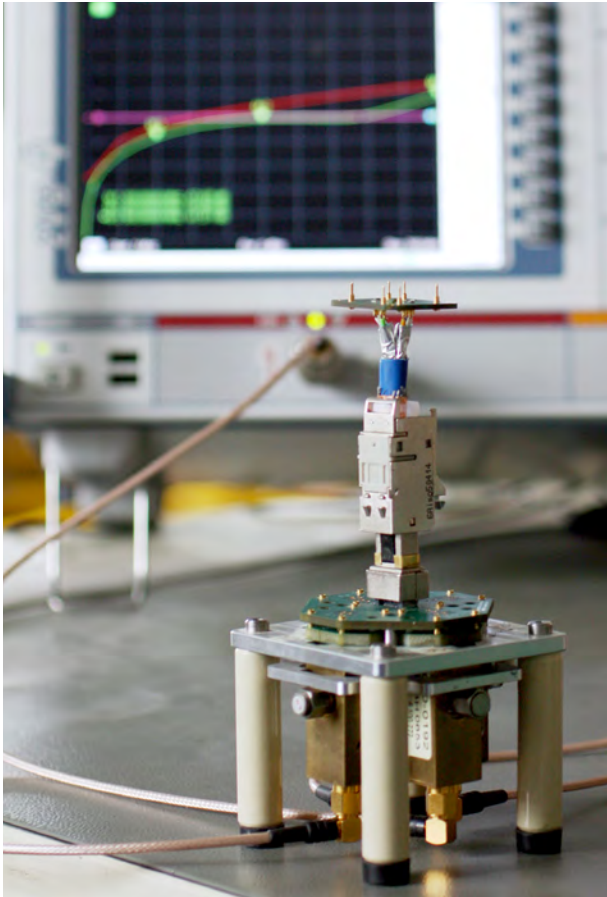
Issue 04-18

Realisation and setting: K2 specialised graphics, design and advertising office, www.k-2.de

Any duplication, even in part, is prohibited and requires the written permission of CobiNet Fernmelde- und Datennetzkomponenten GmbH.

Texts and illustrations, dimension and performance data have been compiled with the greatest care. However, no guarantee of correctness can be given. Similarly, no claims for damages due to errors in this catalogue can be asserted. All trademarks are the property of their registered owners.

PRODUCING NETWORK PERFORMANCE



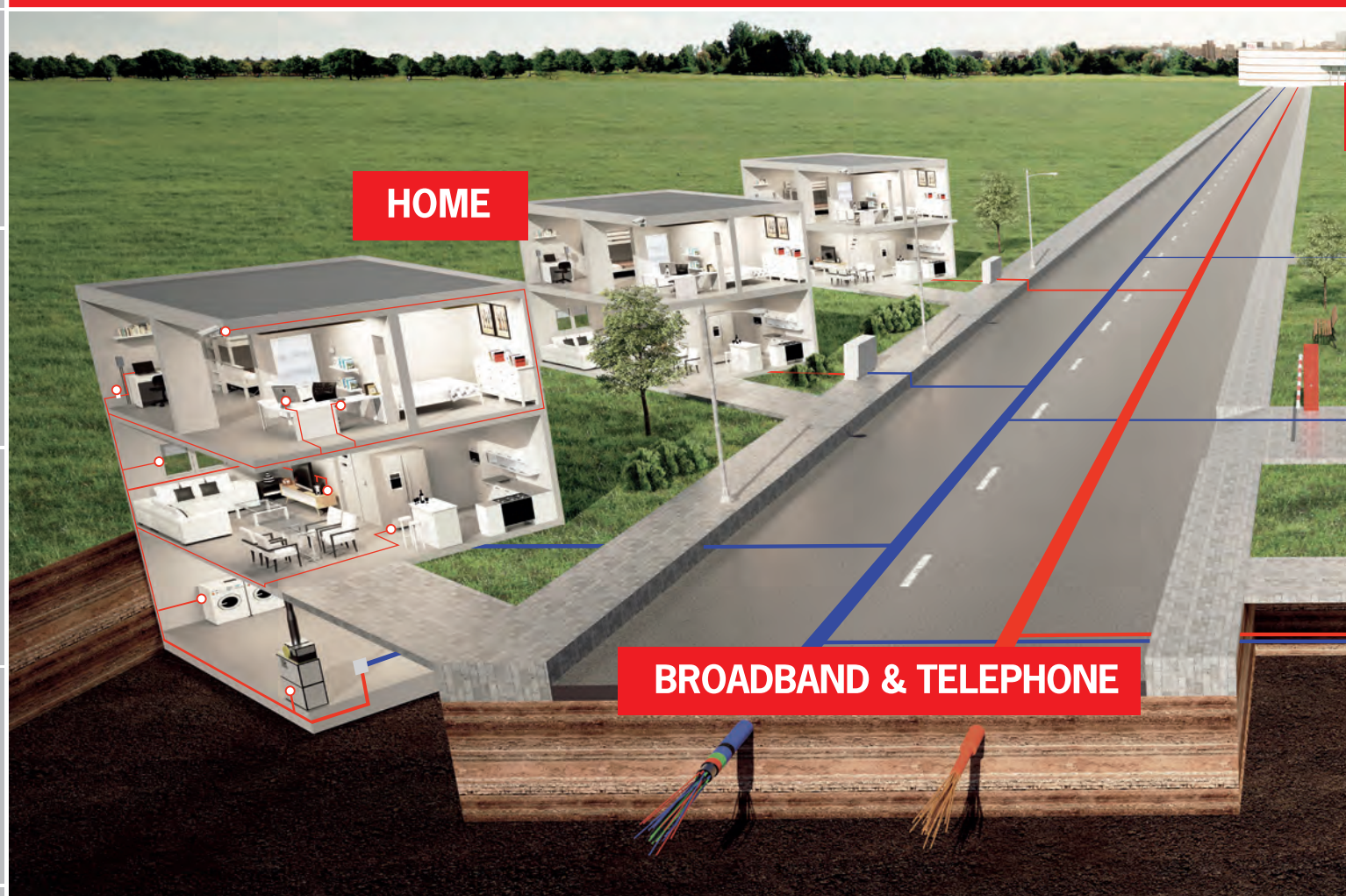
We have been developing, manufacturing and selling cable and network technology in uncompromising quality tailored precisely to our customers' requirements for over twenty years. We are one of the leading providers of connection and cabling solutions in the telecommunications sector.

As a German brand manufacturer, we regularly exceed the required minimum standards and develop innovations in line with market requirements, both for structured cabling in buildings and computer centres as well as for national and international telecommunications providers.

As we carry out our development, production and warehousing operations in house, we are able to respond to customer demands quickly and individually, and can find a stable and reliable solution to all requirements either from our comprehensive full range of products or by means of tailored production.

Thanks to our expertise, our experience and our qualified employees, we are always able to offer our customers the most beneficial solution in terms of technology, price and schedule. We also provide in-depth advice and straightforward service. A trusting relationship is more important to us than short-term gains.

Your full-service provider

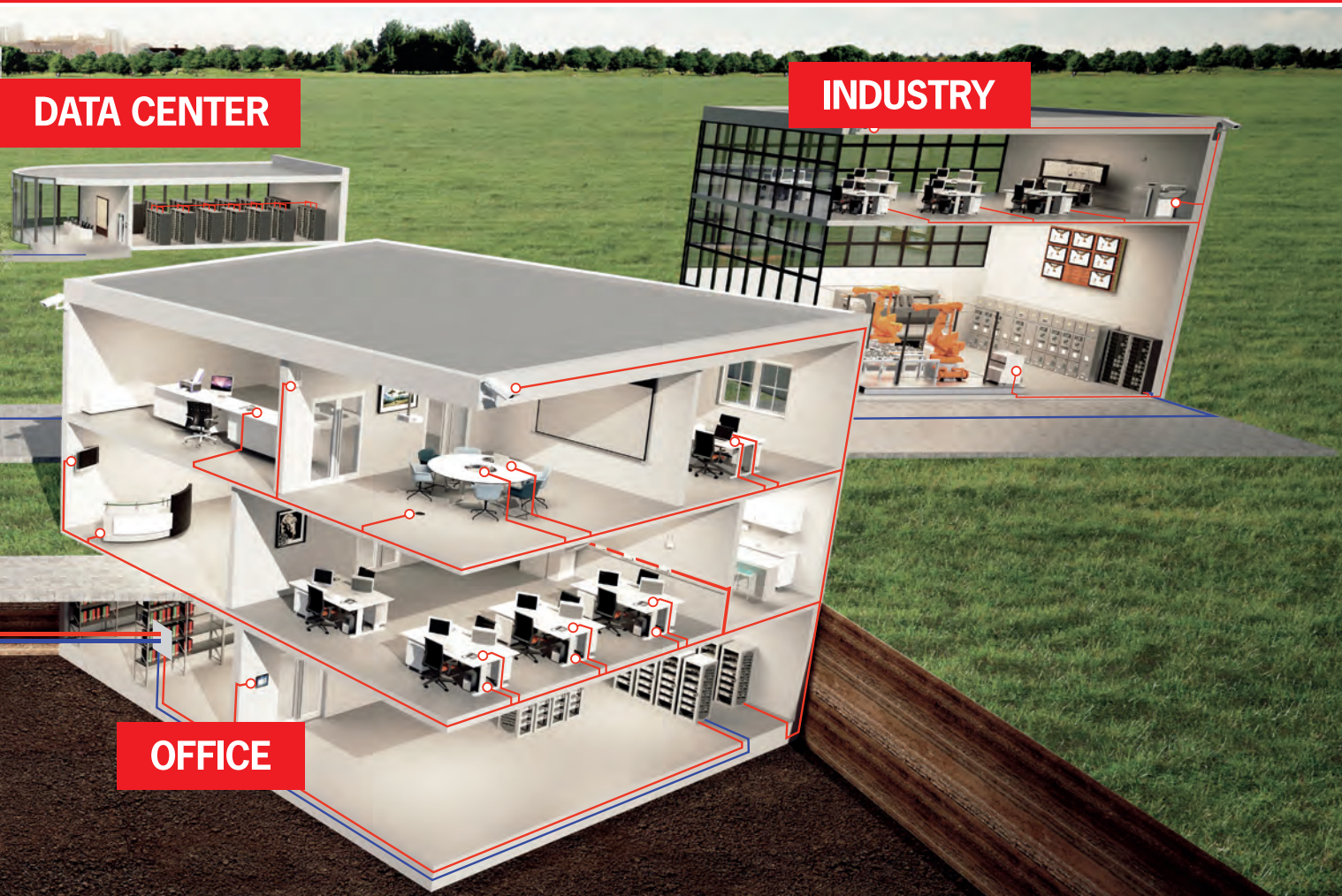


Residential home

Whether fibre-optic or copper, you will always find intelligent and affordable products for structured building cabling at CobiNet, covering all residential home types from flats to high-rise buildings. Extremely reliable RJ45 connectors make it possible to set up an extremely wide range of different network solutions with high reserve capacities. Thanks to their ease of assembly and compact design, the components are all compatible with products from leading switch manufacturers. With the CobiNet fibre-optic system, the next generation of domestic cabling is already a reality today.

Broadband and telephone

Higher data rates and quicker Internet access for customers have revolutionised the telecommunications market. With the patented LSA-HD® modules and their successor models, we are able to meet all of the requirements we are faced with in terms of main distributors, cross-connection cabinets and multifunctional enclosures. Thanks to our in-house production and assembly operations, CobiNet can provide individual solutions from small-scale to large-scale series in the form of XDSL, vectoring or G.fast solutions, not just today but in the future too.



Computer centre

A shortage of space, high power density and areas with optimised cooling flow mean that components and systems are required to have an extremely high packaging density, but the manageability in terms of extending, converting and migrating new applications and technologies still needs to be guaranteed. HD (High-density) solutions from CobiNet will meet these requirements. They are pre-assembled, tested and ready to use, offering excellent value for money.

Office

Modern office networks are characterised by increasingly efficient end devices and the demand for maximum flexibility and future-proof solutions. CobiNet offers a comprehensive range of connection components for structured cabling with copper and fibre-optic cables in the office environment, and our innovations and further developments always focus on minimal assembly effort, quick interchangeability and modular design.

Industry

Assembled, reliable and flexible cable routes for assembly in and cabling of production buildings ensure high levels of investment protection. The products have high degrees of protection, which means they can withstand even the harshest of environments. Reserve capacities for real-time production and measurement data transfer can be achieved with CobiNet thanks to our copper cabling systems, fibre-optic components and network cabinets.

Table of contents

Copper data networks

Pages **8-51**

Keyword directory

Pages **330-332**

Computer centre

Pages **52-66**

Order number index

Pages **334-343**

Fibre-optic technology

Pages **67-148**

Data/network cabinets

Pages **149-170**

Power supply

Pages **171-175**

Telecommunications

Pages **176-310**

Sleeves

Pages **311-314**

Technical information

Pages **315-321**

About CobiNet

Pages **322-329**

Copper data networks



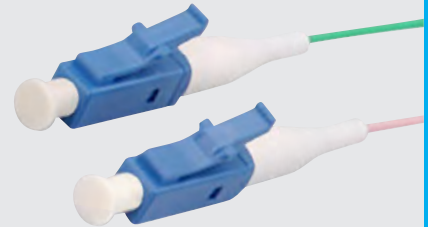
Copper data networks

Computer centre



Computer centre

Fibre-optic technology



Fibre-optic technology

Data/network cabinets



Data/network cabinets

Telecommunications



Telecommunications

Sleeves



Sleeves

Technical information



Technical information

About CobiNet



About CobiNet

Keyword directory

Index/keyword directory

Copper data networks	
Computer centre	
Fibre-optic technology	
Data/network cabinets	
Telecommunications	
Sleeves	
Technical information	
About CobiNet	
Index/keyword directory	

CobiNet Copper data networks

	Pages
System overviews of CobiNet KS and CobiNet LSA	10
Construction Products Regulation	12
Data cables	14
Cable connectors LSA	15
Keystone KS	16
RJ45 coupling KS	18
Patch fields for Keystone KS	19
Keystone support for Keystone KS	20
Consolidation-point housing for Keystone KS	21
Connection housing, surface-mounted, for Keystone KS	22
Accessories for Keystone KS	22
DIN rail housings for Keystone KS	23
RJ45 patch fields LSA	24
RJ45 outlets LSA	25
LSA universal test cord 7052	25
RJ45 patch cables	26
- Cat. 6 _A	26
- Class E _A	26
- Cat. 6	27
- Draka UC 900	28
- Kerpen MegaLine® F6-90	30
- Dätwyler 7702	32
- Corning FutureCom	34
Tools/LSA insertion tool with sensor	36
Accessories	37
T adapter	39
Mounting kits	39

Copper data networks

System overview of CobiNet KS



KS system

The CobiNet KS system is a modular component system with mechanically and electrically optimised components. The incoming installation cable and the CobiNet Keystone jack are engaged into different and perfectly coordinated CobiNet system components by means of a snap lock.

Features:

- Quality product: Meets the standard requirements with substantial reserves
- Quicker assembly time: Toolless connection
- Future sustainability: High-quality installation cable for future services
- Modular construction: Different types of requirements can be mastered within one rack unit



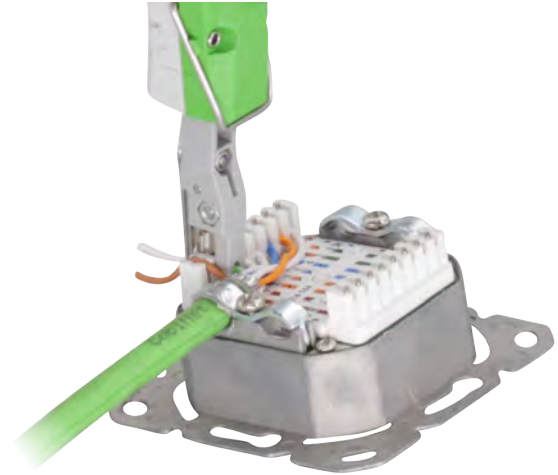
Systems	Patch cable	+	Patch field	+	Keystone	+	Installation cable	+	Keystone	+	KS support
Cat. 6_A	7501 3000/1.0		6921 9100.1		6920 0052.1		9301 1030		6920 0052.1		6922 2011
Class E_A	7501 2000/1.0.1		6921 9100.1		6920 1052.1		9301 1030		6920 1052.1		6922 2011
Cat. 6A	7501 3000/1.0B1A1		6921 9100.1		6920 4052.1		9301 1030		6920 4052.1		6922 2011
Cat. 6	7501 1000/1.0		6921 9100.1		6920 0022.1		9301 1030		6920 0022.1		6922 2011
Class E	7501 1000/1.0		6921 9100.1		6920 1022.1		9301 1030		6920 1022.1		6922 2011
Item	See page 26		See page 19		See page 16		See page 14		See page 16		See page 20

LSA system

In the CobiNet LSA system, the incoming cable is connected into LSA contacts directly on the component's printed circuit board, using the LSA insertion tool with sensor. The entire component is then fixed in place at the corresponding assembly site.

Features:

- Excellent value for money
- Simple, classic connection



Systems	Patch cable	+	Patch field	+	Installation cable	+	Data socket
Class E_A	7501 2000/1.0.1		6931 1410		9301 1030		6932 1411
Cat. 6	7501 1000/1.0		6931 0210		9301 1030		6932 0211
Class E	7501 1000/1.0		6931 1210		9301 1030		6932 1211
Cat. 5e	7501 1000/1.0		6931 0010		9301 1030		6932 0011
Item	See page 26		See page 24		See page 14		See page 25



Insertion tool, see page 36

Copper data networks

Construction Products Regulation for data cables

The European Construction Products Regulation and its impact on fire-resistant cables

The European Union (EU) has recognised the significance of cables with regard to their reaction to fire, and has re-organised the different national regulations of its member states into a standardised evaluation system. The mandatory Construction Products Regulation (Regulation (EU) no. 305/2011) came into force for all member states on 01.07.2013.

As of 01.07.2016, cables could be given a CE mark and a declaration of performance. This marking and declaration of performance have been mandatory since 01.07.2017.

CobiNet has been developing and selling cables and lines without PVC or halogen for many years, with new CobiNet products focusing on environmental performance and safety.

In the event of a fire, these PVC and halogen-free cables give off only very small quantities of smoke (low smoke density), with no corrosive vapours or toxic gases. This creates longer escape and rescue times in the event of a fire, and increases safety for both humans and machines.

Before CobiNet assigns a particular fire class to a fire-resistant cable, the cable types must firstly go through a range of complex testing procedures.

The previously familiar procedure for fire-resistant cables and fire-resistant lines that are subject to the Low Voltage Directive stipulates that the fire behaviour of cables and lines be assessed almost exclusively in accordance with DIN VDE.

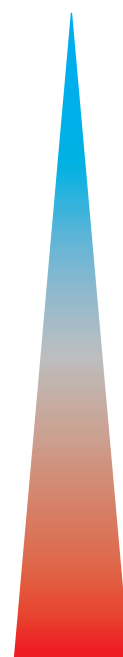
For the fire-resistant cables to which the Construction Products Regulation applies, this is no longer sufficient.

As of 01.07.2017, our cables all feature the CE mark and associated performance class in accordance with the Construction Products Regulation.

Euroclasses for cables as per DIN EN 13501-6:2014-7

Class	Testing procedure	Classification criteria	Additional classification
A _{ca}	EN ISO 1716	PCS ≤ 2.0 MJ/kg	
B1 _{ca}	EN 50399 (30 kW burner) THR _{1200s} ≤ 10 MJ and FIGRA ≤ 120 Ws ⁻¹	FS ≤ 1.75 m and flaming droplets/particles Peak HRR ≤ 20 kW	Smoke development and acidity
	EN 60332-1-2	H ≤ 425 mm	
B2 _{ca}	EN 50399 (20.5 kW burner) THR _{1200s} ≤ 15 MJ and FIGRA ≤ 150 Ws ⁻¹	FS ≤ 1.5 m and flaming droplets/particles Peak HRR ≤ 30 kW	Smoke development and acidity
	EN 60332-1-2	H ≤ 425 mm	
C _{ca}	EN 50399 (20.5 kW burner) THR _{1200s} ≤ 30 MJ and FIGRA ≤ 300 Ws ⁻¹	FS ≤ 2.0 m and flaming droplets/particles Peak HRR ≤ 60 kW	Smoke development and acidity
	EN 60332-1-2	H ≤ 425 mm	
D _{ca}	EN 50399 (20.5 kW burner) Peak HRR ≤ 400 kW	THR _{1200s} ≤ 70 MJ; and flaming droplets/particles FIGRA ≤ 1300 Ws ⁻¹	
	EN 60332-1-2	H ≤ 425 mm	
E _{ca}	EN 60332-1-2	H ≤ 425 mm	
F _{ca}	Does not meet Euroclass E _{ca}		

Non-combustible



Easily inflammable

Construction Products Regulation for data cables

Scope of application of the Construction Products Regulation

According to this regulation, "construction products" are all cables that are permanently installed inside a building. These may be, for example, cables and lines that can be installed as flush-mounted cables, in cable channels, on cable trays or in ducts. Connections between the end device and the permanent building cabling are explicitly excluded from the Construction Products Regulation.

An example of these are classic device connection lines that connect machines or lights to the power supply or data network. CobiNet patch cables therefore do not fall within the scope of the Construction Products Regulation, as they are not intended for permanent installation.

Declaration of performance

The classification table of the Construction Products Regulation features six classes from A to F. These are allocated based on the criteria of heat release and flame spread. There are three additional classes for additional requirements such as smoke development (s), corrosivity (a) and flaming drop-lets (d).

There is a declaration of performance for every CobiNet installation cable, which contains information including the Euroclass (see table on page 12) for assessing the fire protection for buildings.

Certification

Certification is performed by accredited testing institutes that are independent from the manufacturer. The inspector's involvement in the certificate of conformity varies depending on the Euroclass of the products (see table below).

System for the certificate of conformity as per DIN EN 50575:2015-4; VDE 0482-575:2015-4

Euroclasses Reaction to fire	System for the certificate of conformity	Responsibilities of the notified body
A _{ca} , B1 _{ca} , B2 _{ca} , C _{ca}	1+	Type sample testing Regular factory auditing Regular sampling from ongoing production
D _{ca} , E _{ca}	3	Type sample testing
F _{ca}	4	None

Clear labelling

With the CPR symbols used by CobiNet in this catalogue, you can see the Euroclass of the respective cables at all times.



Copper data networks

Data cables

The shielded CobiNet S/FTP data cables are extremely future-proof installation cables and are used wherever high transfer speeds are paramount. With their bandwidth of up to 1500 MHz (Cat. 7A), they meet the usual standard, and are suitable both for setting up a 10 GB Ethernet network and for high transfer rates, with transfer speeds continuing to increase over time.

The S/FTP cable names relate to the type of shielding used for the entire cable and the four individual pairs.

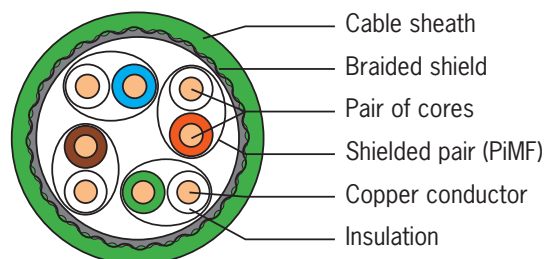
FTP (Foiled Twisted Pair) means that each of the four pairs of cores is surrounded by a metallic shield to reduce the crosstalk between individual pairs of cores, for example. The S stands for additional overall shielding around the four pairs of cores. This shielding is made up of a wire mesh.

Features:

- Future-proof: Suitable for the current standard and for future requirements in structured building cabling.
- Certified: CobiNet 1500 MHz data cables available as B2ca from 01.07.2017 with CE mark, all other cables as D2ca; they therefore meet the requirements set down in the new Construction Products Regulation (see page 12 and onwards)



S/FTP cable structure



Cable type	CobiNet data cable 1500 S/FTP Cat. 7A	CobiNet data cable 1500 S/FTP Cat. 7A	CobiNet data cable 1500 S/FTP Cat. 7A	CobiNet data cable 1500 S/FTP Cat. 7A	CobiNet data cable 1200 S/FTP Cat. 7A	CobiNet data cable 1200 S/FTP Cat. 7A	CobiNet data cable 1150 S/FTP Cat. 7A	CobiNet data cable 1150 S/FTP Cat. 7A	CobiNet data cable 1000 S/FTP Cat. 7	CobiNet data cable 1000 S/FTP Cat. 7
Structure	Simplex	Duplex	Simplex	Duplex	Simplex	Duplex	Simplex	Duplex	Simplex	Duplex
Item no.	9351 1520	9352 1520	9301 1520.1	9302 1520.1	9301 1220	9302 1220	9301 1130	9302 1130	9301 1030	9302 1030
ACR ¹⁾ 100 MHz	92	92	92	92	85	85	83	83	82	82
200 MHz	77	77	77	77	74	74	70	70	70	70
300 MHz	69	69	69	69	67	67	62	62	62	62
500 MHz	59	59	59	59	54	54	47	47	47	47
600 MHz	50	50	50	50	46	46	41	41	40	40
1000 MHz	31	31	31	31	27	27	22	22	20	20
1150 MHz							16	16		
1200 MHz	25	25	25	25	21	21				
1500 MHz	13	13	13	13						
Attenuation ²⁾	16.2	16.2	16.2	16.2	16.5	16.5	17.3	17.3	17.6	17.6
Max. bandwidth (MHz)	1500	1500	1500	1500	1200	1200	1150	1150	1000	1000
NVP (%)	0.78	0.78	0.78	0.78	0.79	0.79	0.78	0.78	0.78	0.78
AWG	22	22	22	22	22	22	23	23	23	23
Outer Ø (mm)	8.2	16.6	8.2	16.6	7.9	16.0	7.6	15.4	7.5	15.2
Weight (kg/km)	82 kg	140 kg	82 kg	140 kg	82 kg	140 kg	60 kg	120 kg	60 kg	120 kg
Flame retardance ³⁾	LSHF-FR	LSHF-FR	LSHF-FR	LSHF-FR	LSHF-FR	LSHF-FR	LSHF-FR	LSHF-FR	LSHF-FR	LSHF-FR
Copper index	37	74	37	74	35	70	30	60	28	56

1) ACR at frequency (MHz) (dB/100 m) 2) Attenuation (dB/100 m at 100 MHz) 3) LSHF-FR: Flame retardant as per IEC 60332-3-24 (cable bundle fire behaviour test)

Fire class

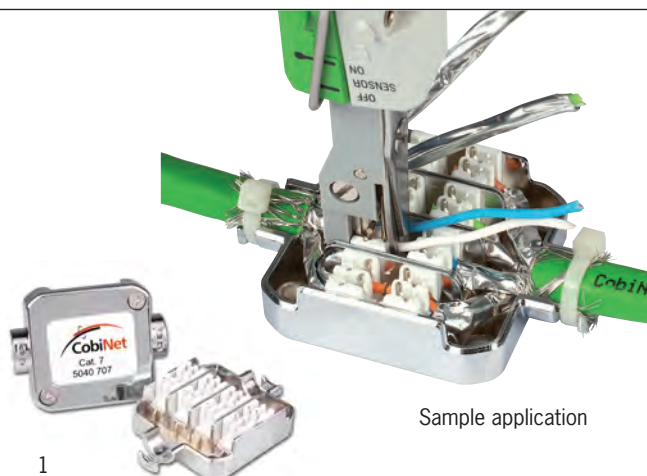


Cable connectors LSA

CobiNet cable connectors LSA

- Compact connector for data cables
- Quick assembly using the LSA insertion tool
- Excellent transmission parameters thanks to chamber shielding and boardless design
- Fully shielded housing in Cat. 6 and Cat. 7 versions
- 360° shielding connection separate from the strain relief
- Increased contact reliability thanks to LSA contacts with 45° incline
- Compact dimensions (W x H x D): 48 x 16 x 39 mm

Item	Item no.	Fig.
Cable connector LSA Cat. 7	5040 707	1
Cable connector LSA Cat. 6	5040 706	



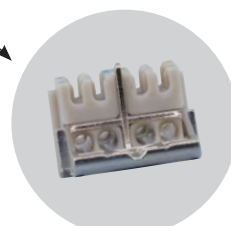
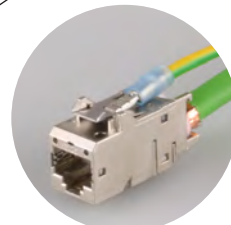
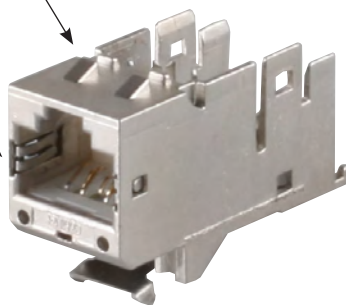
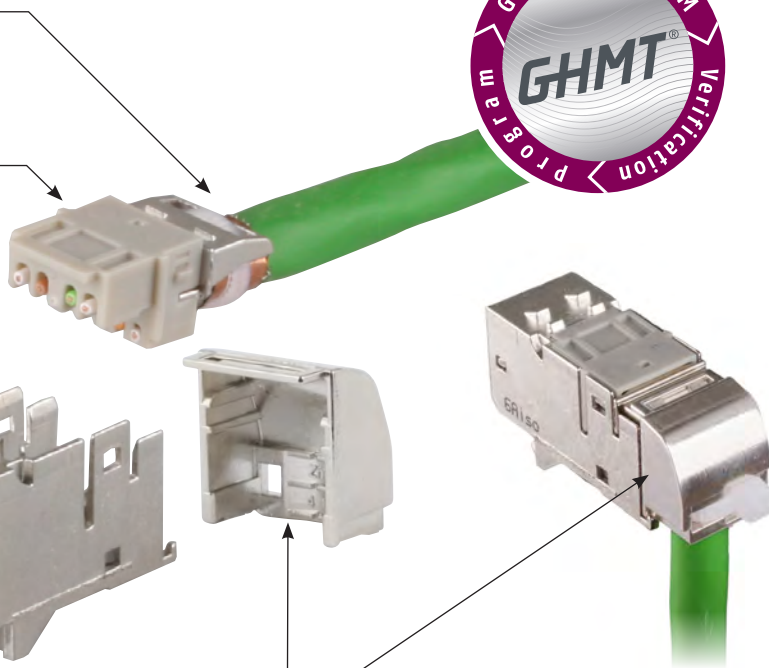
Sample application

1

Keystone with optional 90° adapter for vertical cable outlet

Features of the CobiNet KS jack

- **Variety of versions** up to 500 MHz Cat. 6_A and for 1 or 10 GB Ethernet
- **Toolless connection**
- **Changeable dust protection caps** available in a multi-coloured design
- **LSA insulation displacement terminals with 45° incline** for high level of contact reliability thanks to torsional and restoring forces
- **Small installation depth and standardised construction** – multi-design outlets, suitable for all standard switch ranges
- **Re-connectible** and optimised for time-saving assembly
- **Remote powering (PoE+)** as per IEEE 802.3at
- **Suitable for flexible core connection** (e.g. patch cables)
- **Large range of core diameters** AWG 24/1-22/1 for solid conductors or AWG 26/7-24/7 for flexible conductors
- **GHMT-PVP certification** 
- **Fully shielded**
360° shielding for secure data transfer via conductive copper tape
- **Core selector with integrated cable tie**
Incl. colour coding as per T568A and T568B
- **Compact design** in Keystone format with a max. width of 14.5 mm over the entire component depth
- **Gold-plated stainless steel contact material**
RJ11/RJ12 plug insertion possible
- **Two cable feed options**
With 90° adapter (item number: 6929 9000)
- **Quick connection for earthing**
Quick and secure contacting of the earthing cable via flat plug connection (2.3 mm)
- **Outstanding transfer properties**
Core selector with fully metallic chamber shielding between the pairs of cores, optimised for data cables of up to 1500 MHz, typically allows for 8dB NEXT reserve



CobiNet RJ45 jack KS

- Compact, individually shielded RJ45 jack in Keystone format
- Compact design (3 jacks next to one another with multi-design outlet with 50 x 50 mm central plate)
- Sturdy zinc die-cast housing
- Insulation displacement connection technology, LSA contacts with 45° incline, gas-tight
- 360° shield connection on the cable
- Pre-fitted cable ties
- Quick and easy to assemble without any special tools
- Suitable for use with solid and flexible conductors (patch cables)
- Incl. white dust protection cap



1 Sample application

CobiNet RJ45 jack KS 10 GB (component performance ISO)

Item	PU	Application	Standard	Item no.	Fig.
RJ45 jack KS ICS 500 MHz Cat. 6_A as per ISO/IEC 11801 AMD2 GHMT-PVP-certified	2	10 GB	ISO	6920 0052/P.1	1
	50	10 GB	ISO	6920 0052/P#50.1	1
RJ45 jack KS ICS 500 MHz Cat. 6_A as per ISO/IEC 11801 AMD2	2	10 GB	ISO	6920 0052.1	1
	50	10 GB	ISO	6920 0052#50.1	1



CobiNet RJ45 jack KS 10 GB (link performance ISO, components TIA)

Item	PU	Application	Standard	Item no.	Fig.
RJ45 jack KS IPS 500 MHz Class E_A PL as per ISO/IEC 11801 AMD2	2	10 GB	ISO	6920 1052.1	1
	50	10 GB	ISO	6920 1052#50.1	1
RJ45 jack KS TPS 500 MHz Cat. 6A as per EIA/TIA 568-C.2	2	10 GB	TIA	6920 4052.1	1



CobiNet RJ45 jack KS 1 GB

Item	PU	Application	Standard	Item no.	Fig.
RJ45 jack KS ICS 250 MHz Cat. 6 as per ISO/IEC 11801	2	1 GB	ISO	6920 0022.1	1
RJ45 jack KS IPS 250 MHz Class E PL as per ISO/IEC 11801	2	1 GB	ISO	6920 1022.1	1

Copper data networks

Accessories for RJ45 Keystone KS

CobiNet 90° adapter KS

- 1 kit = 20 pcs



Item	Item no.	Fig.
90° adapter KS	6929 9000	1

CobiNet dust protection cap KS

- 1 kit = 25 pcs



Item	Item no.	Fig.
Grey	6929 4000	2
Yellow	6929 4001	
Green	6929 4002	
Blue	6929 4003	
Red	6929 4005	
Black	6929 4008	

CobiNet parallel crimping pliers

- For safe crimping of the LSA contact in Keystone

Item	Item no.	Fig.
Parallel crimping pliers	8010 109	3



RJ45 couplings KS

CobiNet RJ45 coupling KS

- Compact, individually shielded RJ45 coupling in Keystone format
- Fully shielded housing
- Can be snapped into the KS system

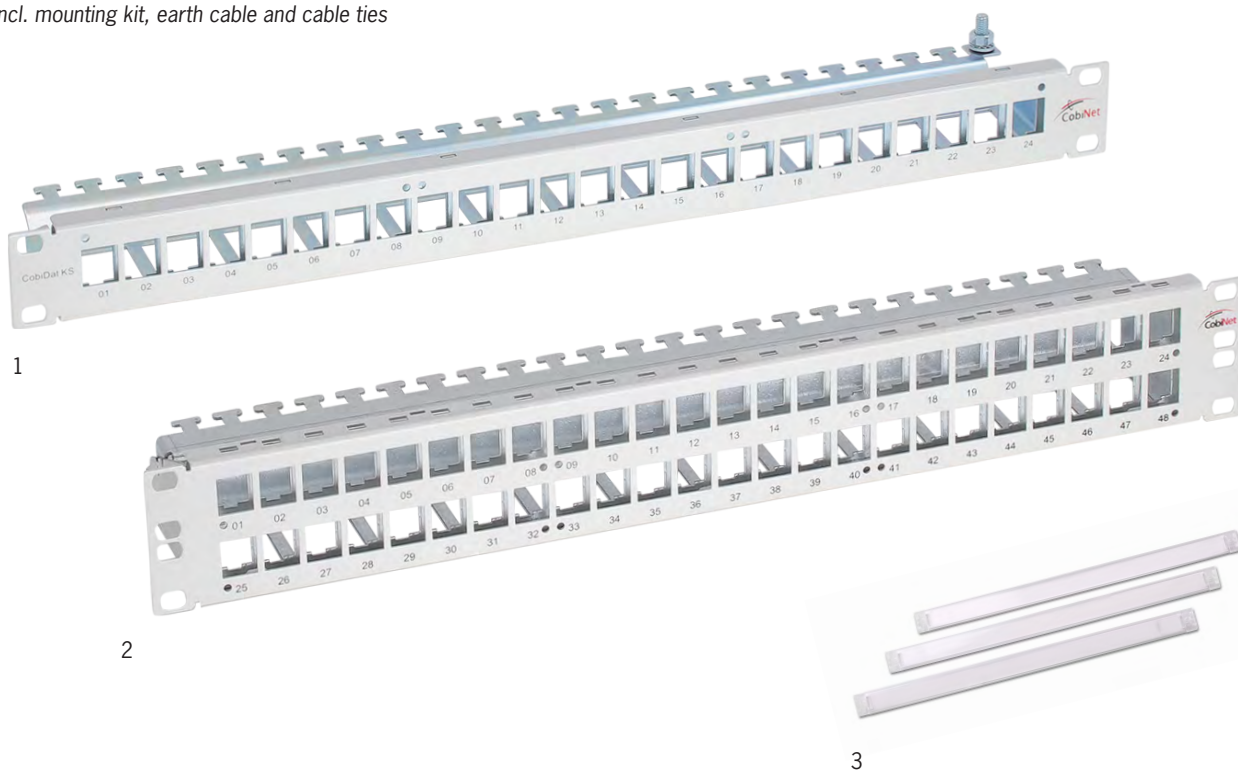


Item	Ethernet	Standard	Item no.	Fig.
RJ45 coupling KS IPS 500 MHz, Class E _A PL as per ISO/IEC 11801 AMD2	10 GB	ISO	6925 1052	4
RJ45 coupling KS IPS 250 MHz, Class E PL as per ISO/IEC 11801	1 GB	ISO	6925 1022	

Patch fields for RJ45 jacks KS

CobiNet patch panel KS

- Unequipped patch panel for the accommodation of KS system RJ45 modules
- 19" (width: 482.6 mm)
- Incl. mounting kit, earth cable and cable ties



Item	Front panel colour	Item no.	Fig.
24x, 1 RU empty housing	RAL 7035 (light grey)	6921 9100	1
24x, 1 RU empty housing	RAL 9005 (jet black)	6921 9108	
24x, 1 RU empty housing, modules' RJ45 contacts at the top	RAL 7035 (light grey)	6921 9110	
24x, 1 RU empty housing, modules' RJ45 contacts at the top	RAL 9005 (jet black)	6921 9118	
48x, 1.5 RU empty housing HD	RAL 7035 (light grey)	6921 9120	2
Labelling strips for patch panels KS, 3-part		6929 3200	3



Sample application

Copper data networks

Keystone support, 1-way, 2-way, 3-way, for Keystone

CobiNet Keystone support KS

- Unequipped outlet for dado trunking and flush-mounted assembly, for the accommodation of KS system shielded RJ45 jacks
- Angled outlet 45°
- Central plate 50 x 50 mm with integrated dust protection caps, cover frame 80 x 80 mm
- Multi-design: Central plate and cover frame can be replaced with almost all switch ranges available on the market
- Inspection window with labelling insert
- Option of connecting a potential equalisation conductor using a cable lug and M4 screw
- Colour: Similar to RAL 9010 (pure white)

Item	Item no.	Fig.
1-way Keystone support KS	6922 1011	1
2-way Keystone support KS	6922 2011	2
3-way Keystone support KS	6922 3011	3



Sample application



1



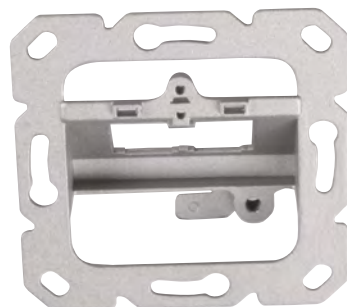
2



3

Multi-design Keystone support KS

- Multi-design: Can be combined with almost all switch ranges available on the market
- Unequipped module support for dado trunking and flush-mounted assembly, for the accommodation of KS system shielded RJ45 jacks
- Without central plate and cover frame
- Angled outlet 45°
- Option of connecting a potential equalisation conductor using a cable lug and M4 screw
- 1 kit = 10 pcs



4



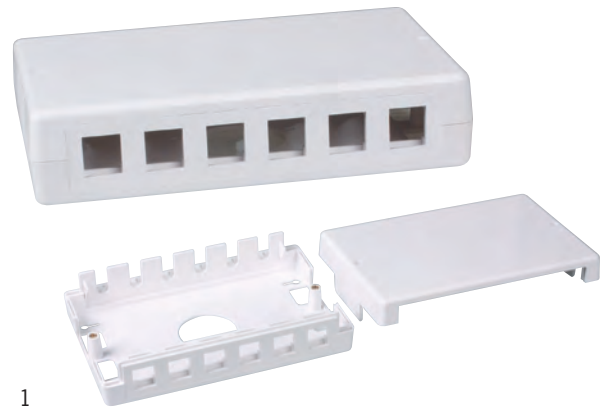
Sample application

Item	Item no.	Fig.
Multi-design 2-way Keystone support KS	6922 2020#10	4

6x/12x CobiNet consolidation-point housing KS

- Unequipped plastic housing for the accommodation of a maximum of six KS system RJ45 modules
- Dimensions (W x H x D): 170 x 40 x 120 mm
- Colour: White

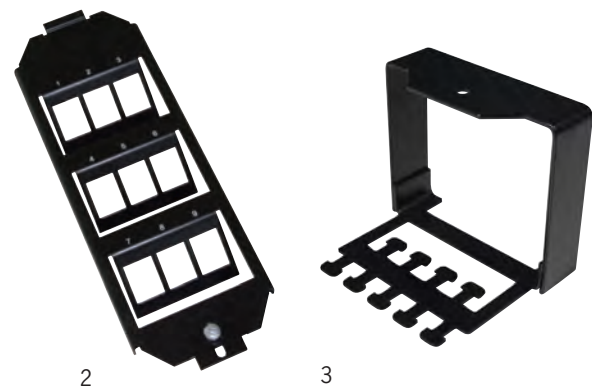
Item	Item no.	Fig.
6-way/12-way consolidation-point housing KS	6923 1600	1



CobiNet supporting frame for underfloor systems

- Empty bracket for the accommodation of KS system RJ45 modules
- Used instead of the GB2/3 underfloor device insert from OBO Bettermann (Ackermann)
- Earthing bolt on the bottom
- Colour: RAL 9005 (jet black)

Item	Section	Item no.	Fig.
5-way supporting frame	GB2	6923 2600	
9-way supporting frame	GB3	6923 2900	2
Cable fixation for supporting frame, height: 60 mm		6923 2000	3



Copper data networks

Surface-mounted connection housings

CobiNet surface-mounted data connection housing KS (IP44)

- Unequipped
- For 2 x RJ45 jack KS vertically downwards
- Dimensions (W x H x D): 75 x 75 x 58 mm
- Surface-mounted assembly
- Weather and UV-resistant
- Break-proof thermoplastic
- Degree of protection: IP44
- Colour: Grey



Item	Item no.	Fig.
2-way surface-mounted data connection housing	6922 2222	1

CobiNet surface-mounted data connection housing KS (IP54)

- Unequipped
- For 2 x RJ45 jack KS
- Dimensions (W x H x D): 103 x 185 x 93 mm
- Surface-mounted assembly
- With lock
- Weather and UV-resistant
- Break-proof thermoplastic
- Degree of protection: IP54
- Colour: RAL 7035 (light grey)



Item	Item no.	Fig.
2-way surface-mounted data connection housing	6922 2223	2

Accessories

CobiNet dummy plug KS

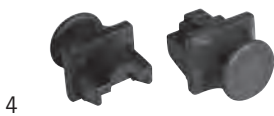
- Dummy plug KS for covering unused Keystone break-outs



Item	Item no.	Fig.
Dummy plug, similar to RAL 9010 (pure white)	6929 0000	3
Dummy plug, similar to RAL 7035 (light grey)	6929 0001	
Dummy plug, similar to RAL 9010 (jet black)	6929 0008	

CobiNet RJ45 dummy plug

- Protects unused RJ45 jacks from dust, dirt and damage



Item	Item no.	Fig.
RJ45 dummy plug, black	5050 012/SW	4
RJ45 dummy plug, grey	5050 012/GR	

DIN rail housings

CobiNet DIN rail adapter

- Metal design with M5 thread without M5 screw
- For DIN rails TS35 as per DIN EN 60715



Item	Item no.	Fig.
DIN rail adapter, M5 thread	3030 122/M	1

CobiNet DIN rail module bracket KS

- Unequipped adapter bracket for the accommodation of KS system RJ45 modules on DIN rails TS35 as per DIN EN 60715
- Incl. DIN rail adapter



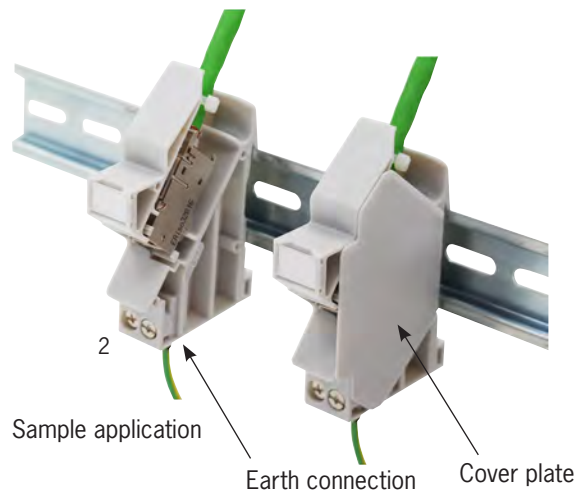
Item	Item no.	Fig.
1x DIN rail module bracket KS Width 23 mm	6923 0100	3
2x DIN rail module bracket KS Width 42 mm	6923 0200	4

CobiNet DIN rail module bracket KS, flexible

- For the accommodation of KS system RJ45 modules
- For DIN rails as per DIN EN 60715
- Can be adapted to the particular number of modules using wire cutters
- Without DIN rail adapter (3030122/M, see above)

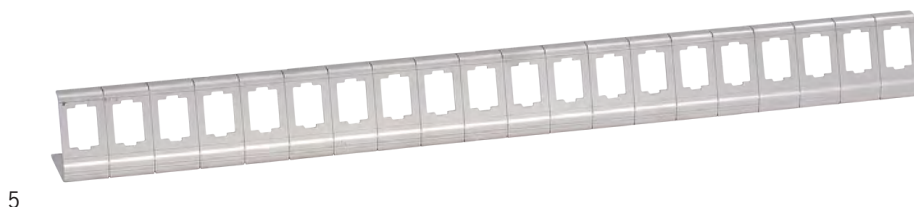
CobiNet DIN rail module housing KS

- Unequipped adapter bracket for the accommodation of KS system RJ45 modules on DIN rails TS35 as per DIN EN 60715
- Adapted size for assembly in meter cabinets, sub-distributors and control cabinets with DIN rails
- Dimensions (W x H x D): 18 x 65 x 90 mm
- For the performance-related connection of meters and communications devices with RJ45 jack
- Incl. cover plate
- Incl. earth connection
- Colour: RAL 7035 (light grey)



Item	Item no.	Fig.
1x DIN rail module housing KS	6923 0101	2

Item	Item no.	Fig.
Module bracket KS, flexible	6671 016.1	5



Copper data networks

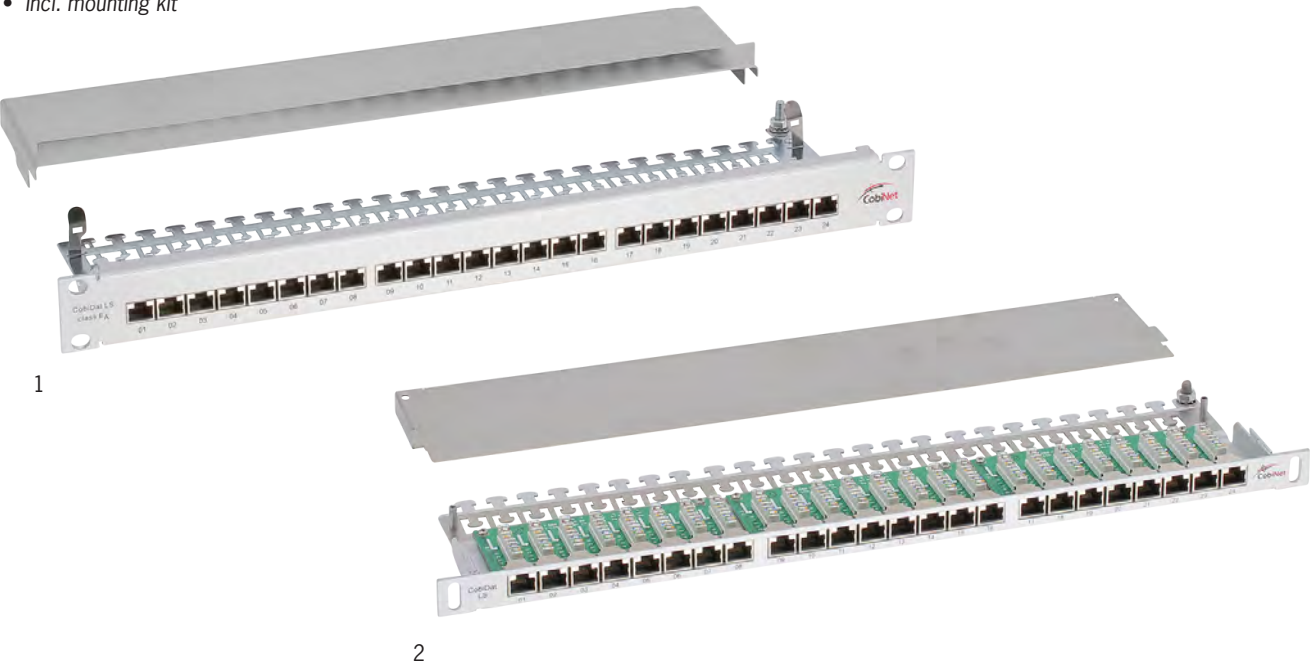
RJ45 patch fields LSA

CobiNet RJ45 patch panel LSA

- Solid, torsion-resistant housing
- 24 individually shielded RJ45 jacks
- Colour-coded PCB connection modules as per T568A and T568B
- Insulation displacement connection technology, LSA contacts with 45° incline, gas-tight
- 360° shielding by means of shielded cable ties
- Cover can be snapped in without tools, using springs
- Particularly quick and easy to connect with LSA insertion tool
- Suitable for use with solid and flexible conductors
- 19" (width: 482.6 mm)
- Earthing via earthing screw M6 in accordance with DIN VDE 0100
- Incl. earth cable and cable ties
- Incl. mounting kit



Insertion tool, see page 36



Item	Ethernet	Rack units	Front panel colour	Item no.	Fig.
RJ45 patch panel LSA IPS 500	10 GB	1	RAL 7035 (light grey)	6931 1410	1
Class E_A PL* as per ISO/IEC 11801 AMD2			RAL 9005 (jet black)	6931 1418	
RJ45 patch panel LSA IPS 500 HD	10 GB	½	RAL 7035 (light grey)	6931 1400	2
Class E_A PL* as per ISO/IEC 11801 AMD2			RAL 9005 (jet black)	6931 1408	
RJ45 patch panel LSA ICS 250	1 GB	1	RAL 7035 (light grey)	6931 0210	
Cat. 6 as per ISO/IEC 11801			RAL 9005 (jet black)	6931 0218	
RJ45 patch panel LSA ICS 250 HD	1 GB	½	RAL 7035 (light grey)	6931 0200	
Cat. 6 as per ISO/IEC 11801			RAL 9005 (jet black)	6931 0208	
RJ45 patch panel LSA IPS 250	1 GB	1	RAL 7035 (light grey)	6931 1210	
Class E PL* as per ISO/IEC 11801			RAL 9005 (jet black)	6931 1218	
RJ45 patch panel LSA ICS 100	1 GB	1	RAL 7035 (light grey)	6931 0010	
Cat. 5e as per ISO/IEC 11801			RAL 9005 (jet black)	6931 0018	

*Permanent link

CobiNet RJ45 outlets LSA

- For dado trunking and flush-mounted assembly
- 2x RJ45 connections
- Individually shielded RJ45 jacks
- Angled outlet 45°
- Central plate 50 x 50 mm with integrated dust protection caps, cover frame 80 x 80 mm
- Suitable for many standard switch ranges
- Inspection window with labelling insert
- Colour: Similar to RAL 9010 (pure white)



1

Item	Ethernet	Cable feed	Item no.	Fig.
RJ45 outlet CobiDat LSA IPS 500	10 GB	Side	6932 1411	
Class E_A PL * as per ISO/IEC 11801 AMD2, individually shielded RJ45 jacks		Top/bottom	6932 1401	
RJ45 outlet CobiDat LSA ICS 250	1 GB	Side	6932 0211	
Cat. 6 as per ISO/IEC 11801, individually shielded RJ45 jacks		Top/bottom	6932 0201	
RJ45 outlet CobiDat LSA IPS 250	1 GB	Side	6932 1211	1
Class E PL * as per ISO/IEC 11801, individually shielded RJ45 jacks		Top/bottom	6932 1201	
RJ45 outlet CobiDat LSA ICS 100	1 GB	Side	6932 0011	
Cat. 5e as per ISO/IEC 11801, individually shielded RJ45 jacks		Top/bottom	6932 0001	

*Permanent link

Test cord

CobiNet LSA universal test cord 7052, 2-pin

- Fitted with a plug for tapping almost all LSA contacts and 2 jacks (4 mm) for banana plugs
- 2-pin tapping of the LSA contact using 2 spring contacts in the plug
- For parallel connection to a twisted pair



2

Sample application

Item	Item no.	Fig.
0.2 m	3020 003/0.2	2

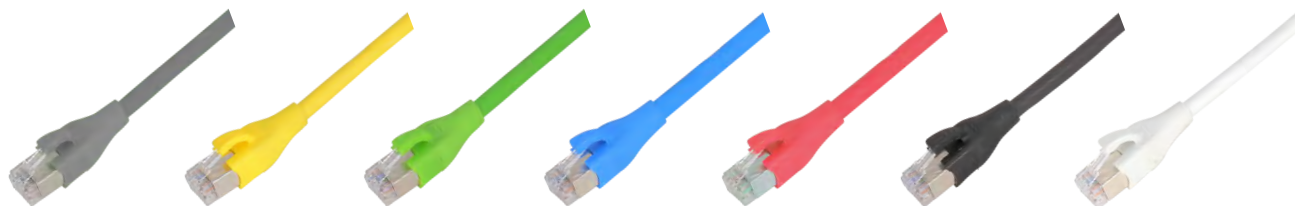
Copper data networks

RJ45 patch cables

CobiNet RJ45 patch cable Cat. 6_A

- Category 6_A as per ISO/IEC 11801 AMD2:2010-04
- GHMT-certified
- Design: S/FTP
- Sheath: LSHF
- Configuration of the RJ45 plug 1:1 as per TIA568B
- 10 GB

GHMT®



Length Colour	0.5 m	1.0 m	2.0 m	3.0 m	5.0 m	7.0 m	10.0 m
● Grey	7501 3000/0.5	7501 3000/1.0	7501 3000/2.0	7501 3000/3.0	7501 3000/5.0	7501 3000/7.0	7501 3000/10.0
● Yellow	7511 3000/0.5	7511 3000/1.0	7511 3000/2.0	7511 3000/3.0	7511 3000/5.0	7511 3000/7.0	7511 3000/10.0
● Green	7521 3000/0.5	7521 3000/1.0	7521 3000/2.0	7521 3000/3.0	7521 3000/5.0	7521 3000/7.0	7521 3000/10.0
● Blue	7531 3000/0.5	7531 3000/1.0	7531 3000/2.0	7531 3000/3.0	7531 3000/5.0	7531 3000/7.0	7531 3000/10.0
● Red	7551 3000/0.5	7551 3000/1.0	7551 3000/2.0	7551 3000/3.0	7551 3000/5.0	7551 3000/7.0	7551 3000/10.0
● Black	7581 3000/0.5	7581 3000/1.0	7581 3000/2.0	7581 3000/3.0	7581 3000/5.0	7581 3000/7.0	7581 3000/10.0
○ White	7591 3000/0.5	7591 3000/1.0	7591 3000/2.0	7591 3000/3.0	7591 3000/5.0	7591 3000/7.0	7591 3000/10.0

**i Additional lengths
on request**

CobiNet RJ45 patch cable Class E_A

- Class E_A as per ISO/IEC 11801
- Design: S/FTP
- Sheath: LSHF
- Configuration of the RJ45 plug as per T568B
- Configuration of the RJ45 plug 1:1 as per TIA568B
- 10 GB



Length Colour	0.5 m	1.0 m	2.0 m	3.0 m	5.0 m	7.5 m	10.0 m
● Grey	7501 2000/0.5.1	7501 2000/1.0.1	7501 2000/2.0.1	7501 2000/3.0.1	7501 2000/5.0.1	7501 2000/7.5.1	7501 2000/10.0.1
● Yellow	7511 2000/0.5.1	7511 2000/1.0.1	7511 2000/2.0.1	7511 2000/3.0.1	7511 2000/5.0.1	7511 2000/7.5.1	7511 2000/10.0.1
● Green	7521 2000/0.5.1	7521 2000/1.0.1	7521 2000/2.0.1	7521 2000/3.0.1	7521 2000/5.0.1	7521 2000/7.5.1	7521 2000/10.0.1
● Blue	7531 2000/0.5.1	7531 2000/1.0.1	7531 2000/2.0.1	7531 2000/3.0.1	7531 2000/5.0.1	7531 2000/7.5.1	7531 2000/10.0.1
● Red	7551 2000/0.5.1	7551 2000/1.0.1	7551 2000/2.0.1	7551 2000/3.0.1	7551 2000/5.0.1	7551 2000/7.5.1	7551 2000/10.0.1

CobiNet RJ45 patch cable Cat. 6

- Cat. 6 as per ISO/IEC 11801 and EN50173-1, and ANSI/TIA-568-B.2
- Design: S/FTP
- Sheath: LSHF
- Configuration of the RJ45 plug 1:1 as per TIA568B
- 1 GB



Length Colour	0.5 m	1.0 m	2.0 m	3.0 m	5.0 m	7.0 m	10.0 m
● Grey	7501 1000/0.5	7501 1000/1.0	7501 1000/2.0	7501 1000/3.0	7501 1000/5.0	7501 1000/7.0	7501 1000/10.0
● Yellow	7511 1000/0.5	7511 1000/1.0	7511 1000/2.0	7511 1000/3.0	7511 1000/5.0	7511 1000/7.0	7511 1000/10.0
● Green	7521 1000/0.5	7521 1000/1.0	7521 1000/2.0	7521 1000/3.0	7521 1000/5.0	7521 1000/7.0	7521 1000/10.0
● Blue	7531 1000/0.5	7531 1000/1.0	7531 1000/2.0	7531 1000/3.0	7531 1000/5.0	7531 1000/7.0	7531 1000/10.0
● Red	7551 1000/0.5	7551 1000/1.0	7551 1000/2.0	7551 1000/3.0	7551 1000/5.0	7551 1000/7.0	7551 1000/10.0

Copper data networks

RJ45 patch cables Draka UC900

CobiNet RJ45 patch cable Class E_A/Draka UC900 + Hirose TM31

- Class E_A as per ISO/IEC 11801 AMD2:2010-04
- Design: S/FTP
- Sheath: LSHF
- Configuration of the RJ45 plug 1:1 as per TIA568B
- 10 GB



Length Colour	0.5 m	1.0 m	2.0 m	3.0 m	5.0 m	10.0 m
● Grey	7501 3000/0.5A1A1	7501 3000/1.0A1A1	7501 3000/2.0A1A1	7501 3000/3.0A1A1	7501 3000/5.0A1A1	7501 3000/10A1A1
● Yellow	7511 3000/0.5A1A1	7511 3000/1.0A1A1	7511 3000/2.0A1A1	7511 3000/3.0A1A1	7511 3000/5.0A1A1	7511 3000/10A1A1
● Green	7521 3000/0.5A1A1	7521 3000/1.0A1A1	7521 3000/2.0A1A1	7521 3000/3.0A1A1	7521 3000/5.0A1A1	7521 3000/10A1A1
● Blue	7531 3000/0.5A1A1	7531 3000/1.0A1A1	7531 3000/2.0A1A1	7531 3000/3.0A1A1	7531 3000/5.0A1A1	7531 3000/10A1A1
● Red	7551 3000/0.5A1A1	7551 3000/1.0A1A1	7551 3000/2.0A1A1	7551 3000/3.0A1A1	7551 3000/5.0A1A1	7551 3000/10A1A1

i Additional lengths on request

CobiNet RJ45 patch cable Class E_A/Draka UC900 + Hirose TM21

- Class E_A as per ISO/IEC 11801 AMD2:2010-04
- Design: S/FTP
- Sheath: LSHF
- Configuration of the RJ45 plug 1:1 as per TIA568B
- 10 GB



Length Colour	0.5 m	1.0 m	2.0 m	3.0 m	5.0 m	10.0 m
● Grey	7501 3000/0.5A1A2	7501 3000/1.0A1A2	7501 3000/2.0A1A2	7501 3000/3.0A1A2	7501 3000/5.0A1A2	7501 3000/10A1A2
● Yellow	7511 3000/0.5A1A2	7511 3000/1.0A1A2	7511 3000/2.0A1A2	7511 3000/3.0A1A2	7511 3000/5.0A1A2	7511 3000/10A1A2
● Green	7521 3000/0.5A1A2	7521 3000/1.0A1A2	7521 3000/2.0A1A2	7521 3000/3.0A1A2	7521 3000/5.0A1A2	7521 3000/10A1A2
● Blue	7531 3000/0.5A1A2	7531 3000/1.0A1A2	7531 3000/2.0A1A2	7531 3000/3.0A1A2	7531 3000/5.0A1A2	7531 3000/10A1A2
● Red	7551 3000/0.5A1A2	7551 3000/1.0A1A2	7551 3000/2.0A1A2	7551 3000/3.0A1A2	7551 3000/5.0A1A2	7551 3000/10A1A2

i Additional lengths on request

CobiNet RJ45 patch cable Class E_A/Draka UC900 + AMP EMT

- Class E_A as per ISO/IEC 11801 AMD2:2010-04
- Design: S/FTP
- Sheath: LSHF
- Configuration of the RJ45 plug 1:1 as per TIA568B
- 10 GB



Length Colour	0.5 m	1.0 m	2.0 m	3.0 m	5.0 m	10.0 m
● Grey	7501 3000/0.5A1B1	7501 3000/1.0A1B1	7501 3000/2.0A1B1	7501 3000/3.0A1B1	7501 3000/5.0A1B1	7501 3000/10A1B1
● Yellow	7511 3000/0.5A1B1	7511 3000/1.0A1B1	7511 3000/2.0A1B1	7511 3000/3.0A1B1	7511 3000/5.0A1B1	7511 3000/10A1B1
● Green	7521 3000/0.5A1B1	7521 3000/1.0A1B1	7521 3000/2.0A1B1	7521 3000/3.0A1B1	7521 3000/5.0A1B1	7521 3000/10A1B1
● Blue	7531 3000/0.5A1B1	7531 3000/1.0A1B1	7531 3000/2.0A1B1	7531 3000/3.0A1B1	7531 3000/5.0A1B1	7531 3000/10A1B1
● Red	7551 3000/0.5A1B1	7551 3000/1.0A1B1	7551 3000/2.0A1B1	7551 3000/3.0A1B1	7551 3000/5.0A1B1	7551 3000/10A1B1



Additional lengths
on request

CobiNet RJ45 patch cable Class E_A/Draka UC900 + Stewart SS-39200

- Class E_A as per ISO/IEC 11801 AMD2:2010-04
- Design: S/FTP
- Sheath: LSHF
- Configuration of the RJ45 plug 1:1 as per TIA568B
- 10 GB



Length Colour	0.5 m	1.0 m	2.0 m	3.0 m	5.0 m	10.0 m
● Grey	7501 3000/0.5A1C1	7501 3000/1.0A1C1	7501 3000/2.0A1C1	7501 3000/3.0A1C1	7501 3000/5.0A1C1	7501 3000/10A1C1
● Yellow	7511 3000/0.5A1C1	7511 3000/1.0A1C1	7511 3000/2.0A1C1	7511 3000/3.0A1C1	7511 3000/5.0A1C1	7511 3000/10A1C1
● Green	7521 3000/0.5A1C1	7521 3000/1.0A1C1	7521 3000/2.0A1C1	7521 3000/3.0A1C1	7521 3000/5.0A1C1	7521 3000/10A1C1
● Blue	7531 3000/0.5A1C1	7531 3000/1.0A1C1	7531 3000/2.0A1C1	7531 3000/3.0A1C1	7531 3000/5.0A1C1	7531 3000/10A1C1
● Red	7551 3000/0.5A1C1	7551 3000/1.0A1C1	7551 3000/2.0A1C1	7551 3000/3.0A1C1	7551 3000/5.0A1C1	7551 3000/10A1C1



Additional lengths
on request

Copper data networks

RJ45 patch cables Kerpen MegaLine® F6-90

CobiNet RJ45 patch cable Class E_A/Kerpen MegaLine® F6-90 + Hirose TM31

- Class E_A as per ISO/IEC 11801 AMD2:2010-04
- Design: S/FTP
- Sheath: LSHF
- Configuration of the RJ45 plug 1:1 as per TIA568B
- 10 GB



Length Colour	0.5 m	1.0 m	2.0 m	3.0 m	5.0 m	10.0 m
● Grey	7501 3000/0.5B1A1	7501 3000/1.0B1A1	7501 3000/2.0B1A1	7501 3000/3.0B1A1	7501 3000/5.0B1A1	7501 3000/10B1A1
● Yellow	7511 3000/0.5B1A1	7511 3000/1.0B1A1	7511 3000/2.0B1A1	7511 3000/3.0B1A1	7511 3000/5.0B1A1	7511 3000/10B1A1
● Green	7521 3000/0.5B1A1	7521 3000/1.0B1A1	7521 3000/2.0B1A1	7521 3000/3.0B1A1	7521 3000/5.0B1A1	7521 3000/10B1A1
● Blue	7531 3000/0.5B1A1	7531 3000/1.0B1A1	7531 3000/2.0B1A1	7531 3000/3.0B1A1	7531 3000/5.0B1A1	7531 3000/10B1A1
● Red	7551 3000/0.5B1A1	7551 3000/1.0B1A1	7551 3000/2.0B1A1	7551 3000/3.0B1A1	7551 3000/5.0B1A1	7551 3000/10B1A1

i Additional lengths on request

CobiNet RJ45 patch cable Class E_A/Kerpen MegaLine® F6-90 + Hirose TM21

- Class E_A as per ISO/IEC 11801 AMD2:2010-04
- Design: S/FTP
- Sheath: LSHF
- Configuration of the RJ45 plug 1:1 as per TIA568B
- 10 GB



Length Colour	0.5 m	1.0 m	2.0 m	3.0 m	5.0 m	10.0 m
● Grey	7501 3000/0.5B1A2	7501 3000/1.0B1A2	7501 3000/2.0B1A2	7501 3000/3.0B1A2	7501 3000/5.0B1A2	7501 3000/10B1A2
● Yellow	7511 3000/0.5B1A2	7511 3000/1.0B1A2	7511 3000/2.0B1A2	7511 3000/3.0B1A2	7511 3000/5.0B1A2	7511 3000/10B1A2
● Green	7521 3000/0.5B1A2	7521 3000/1.0B1A2	7521 3000/2.0B1A2	7521 3000/3.0B1A2	7521 3000/5.0B1A2	7521 3000/10B1A2
● Blue	7531 3000/0.5B1A2	7531 3000/1.0B1A2	7531 3000/2.0B1A2	7531 3000/3.0B1A2	7531 3000/5.0B1A2	7531 3000/10B1A2
● Red	7551 3000/0.5B1A2	7551 3000/1.0B1A2	7551 3000/2.0B1A2	7551 3000/3.0B1A2	7551 3000/5.0B1A2	7551 3000/10B1A2

i Additional lengths on request

CobiNet RJ45 patch cables Kerpen MegaLine® F6-90

CobiNet RJ45 patch cable Class E_A/Kerpen MegaLine® F6-90 + AMP EMT

- Class E_A as per ISO/IEC 11801 AMD2:2010-04
- Design: S/FTP
- Sheath: LSHF
- Configuration of the RJ45 plug 1:1 as per TIA568B
- 10 GB



Length Colour	0.5 m	1.0 m	2.0 m	3.0 m	5.0 m	10.0 m
● Grey	7501 3000/0.5B1B1	7501 3000/1.0B1B1	7501 3000/2.0B1B1	7501 3000/3.0B1B1	7501 3000/5.0B1B1	7501 3000/10B1B1
● Yellow	7511 3000/0.5B1B1	7511 3000/1.0B1B1	7511 3000/2.0B1B1	7511 3000/3.0B1B1	7511 3000/5.0B1B1	7511 3000/10B1B1
● Green	7521 3000/0.5B1B1	7521 3000/1.0B1B1	7521 3000/2.0B1B1	7521 3000/3.0B1B1	7521 3000/5.0B1B1	7521 3000/10B1B1
● Blue	7531 3000/0.5B1B1	7531 3000/1.0B1B1	7531 3000/2.0B1B1	7531 3000/3.0B1B1	7531 3000/5.0B1B1	7531 3000/10B1B1
● Red	7551 3000/0.5B1B1	7551 3000/1.0B1B1	7551 3000/2.0B1B1	7551 3000/3.0B1B1	7551 3000/5.0B1B1	7551 3000/10B1B1



Additional lengths
on request

CobiNet RJ45 patch cable Class E_A/Kerpen MegaLine® F6-90 + Stewart SS-39200

- Class E_A as per ISO/IEC 11801 AMD2:2010-04
- Design: S/FTP
- Sheath: LSHF
- Configuration of the RJ45 plug 1:1 as per TIA568B
- 10 GB



Length Colour	0.5 m	1.0 m	2.0 m	3.0 m	5.0 m	10.0 m
● Grey	7501 3000/0.5B1C1	7501 3000/1.0B1C1	7501 3000/2.0B1C1	7501 3000/3.0B1C1	7501 3000/5.0B1C1	7501 3000/10B1C1
● Yellow	7511 3000/0.5B1C1	7511 3000/1.0B1C1	7511 3000/2.0B1C1	7511 3000/3.0B1C1	7511 3000/5.0B1C1	7511 3000/10B1C1
● Green	7521 3000/0.5B1C1	7521 3000/1.0B1C1	7521 3000/2.0B1C1	7521 3000/3.0B1C1	7521 3000/5.0B1C1	7521 3000/10B1C1
● Blue	7531 3000/0.5B1C1	7531 3000/1.0B1C1	7531 3000/2.0B1C1	7531 3000/3.0B1C1	7531 3000/5.0B1C1	7531 3000/10B1C1
● Red	7551 3000/0.5B1C1	7551 3000/1.0B1C1	7551 3000/2.0B1C1	7551 3000/3.0B1C1	7551 3000/5.0B1C1	7551 3000/10B1C1



Additional lengths
on request

Copper data networks

RJ45 patch cables Dätwyler 7702

CobiNet RJ45 patch cable Class E_A/Dätwyler 7702 + Hirose TM31

- Class E_A as per ISO/IEC 11801 AMD2:2010-04
- Design: S/FTP
- Sheath: LSHF
- Configuration of the RJ45 plug 1:1 as per TIA568B
- 10 GB



Length Colour	0.5 m	1.0 m	2.0 m	3.0 m	5.0 m	10.0 m
● Grey	7501 3000/0.5C1A1	7501 3000/1.0C1A1	7501 3000/2.0C1A1	7501 3000/3.0C1A1	7501 3000/5.0C1A1	7501 3000/10C1A1
● Yellow	7511 3000/0.5C1A1	7511 3000/1.0C1A1	7511 3000/2.0C1A1	7511 3000/3.0C1A1	7511 3000/5.0C1A1	7511 3000/10C1A1
● Green	7521 3000/0.5C1A1	7521 3000/1.0C1A1	7521 3000/2.0C1A1	7521 3000/3.0C1A1	7521 3000/5.0C1A1	7521 3000/10C1A1
● Blue	7531 3000/0.5C1A1	7531 3000/1.0C1A1	7531 3000/2.0C1A1	7531 3000/3.0C1A1	7531 3000/5.0C1A1	7531 3000/10C1A1
● Red	7551 3000/0.5C1A1	7551 3000/1.0C1A1	7551 3000/2.0C1A1	7551 3000/3.0C1A1	7551 3000/5.0C1A1	7551 3000/10C1A1

i Additional lengths on request

CobiNet RJ45 patch cable Class E_A/Dätwyler 7702 + Hirose TM21

- Class E_A as per ISO/IEC 11801 AMD2:2010-04
- Design: S/FTP
- Sheath: LSHF
- Configuration of the RJ45 plug 1:1 as per TIA568B
- 10 GB



Length Colour	0.5 m	1.0 m	2.0 m	3.0 m	5.0 m	10.0 m
● Grey	7501 3000/0.5C1A2	7501 3000/1.0C1A2	7501 3000/2.0C1A2	7501 3000/3.0C1A2	7501 3000/5.0C1A2	7501 3000/10C1A2
● Yellow	7511 3000/0.5C1A2	7511 3000/1.0C1A2	7511 3000/2.0C1A2	7511 3000/3.0C1A2	7511 3000/5.0C1A2	7511 3000/10C1A2
● Green	7521 3000/0.5C1A2	7521 3000/1.0C1A2	7521 3000/2.0C1A2	7521 3000/3.0C1A2	7521 3000/5.0C1A2	7521 3000/10C1A2
● Blue	7531 3000/0.5C1A2	7531 3000/1.0C1A2	7531 3000/2.0C1A2	7531 3000/3.0C1A2	7531 3000/5.0C1A2	7531 3000/10C1A2
● Red	7551 3000/0.5C1A2	7551 3000/1.0C1A2	7551 3000/2.0C1A2	7551 3000/3.0C1A2	7551 3000/5.0C1A2	7551 3000/10C1A2

i Additional lengths on request

CobiNet RJ45 patch cable Class E_A/Dätwyler 7702 + AMP EMT

- Class E_A as per ISO/IEC 11801 AMD2:2010-04
- Design: S/FTP
- Sheath: LSHF
- Configuration of the RJ45 plug 1:1 as per TIA568B
- 10 GB



Length Colour	0.5 m	1.0 m	2.0 m	3.0 m	5.0 m	10.0 m
● Grey	7501 3000/0.5C1B1	7501 3000/1.0C1B1	7501 3000/2.0C1B1	7501 3000/3.0C1B1	7501 3000/5.0C1B1	7501 3000/10C1B1
● Yellow	7511 3000/0.5C1B1	7511 3000/1.0C1B1	7511 3000/2.0C1B1	7511 3000/3.0C1B1	7511 3000/5.0C1B1	7511 3000/10C1B1
● Green	7521 3000/0.5C1B1	7521 3000/1.0C1B1	7521 3000/2.0C1B1	7521 3000/3.0C1B1	7521 3000/5.0C1B1	7521 3000/10C1B1
● Blue	7531 3000/0.5C1B1	7531 3000/1.0C1B1	7531 3000/2.0C1B1	7531 3000/3.0C1B1	7531 3000/5.0C1B1	7531 3000/10C1B1
● Red	7551 3000/0.5C1B1	7551 3000/1.0C1B1	7551 3000/2.0C1B1	7551 3000/3.0C1B1	7551 3000/5.0C1B1	7551 3000/10C1B1



Additional lengths
on request

CobiNet RJ45 patch cable Class E_A/Dätwyler 7702 + Stewart SS-39200

- Class E_A as per ISO/IEC 11801 AMD2:2010-04
- Design: S/FTP
- Sheath: LSHF
- Configuration of the RJ45 plug 1:1 as per TIA568B
- 10 GB



Length Colour	0.5 m	1.0 m	2.0 m	3.0 m	5.0 m	10.0 m
● Grey	7501 3000/0.5C1C1	7501 3000/1.0C1C1	7501 3000/2.0C1C1	7501 3000/3.0C1C1	7501 3000/5.0C1C1	7501 3000/10C1C1
● Yellow	7511 3000/0.5C1C1	7511 3000/1.0C1C1	7511 3000/2.0C1C1	7511 3000/3.0C1C1	7511 3000/5.0C1C1	7511 3000/10C1C1
● Green	7521 3000/0.5C1C1	7521 3000/1.0C1C1	7521 3000/2.0C1C1	7521 3000/3.0C1C1	7521 3000/5.0C1C1	7521 3000/10C1C1
● Blue	7531 3000/0.5C1C1	7531 3000/1.0C1C1	7531 3000/2.0C1C1	7531 3000/3.0C1C1	7531 3000/5.0C1C1	7531 3000/10C1C1
● Red	7551 3000/0.5C1C1	7551 3000/1.0C1C1	7551 3000/2.0C1C1	7551 3000/3.0C1C1	7551 3000/5.0C1C1	7551 3000/10C1C1



Additional lengths
on request

Copper data networks

RJ45 patch cables Corning FutureCom™

CobiNet RJ45 patch cable Class E_A/Corning FutureCom™ + Hirose TM31

- Class E_A as per ISO/IEC 11801 AMD2:2010-04
- Design: S/FTP
- Sheath: LSHF
- Configuration of the RJ45 plug 1:1 as per TIA568B
- 10 GB



Length Colour	0.5 m	1.0 m	2.0 m	3.0 m	5.0 m	10.0 m
● Grey	7501 3000/0.5D1A1	7501 3000/1.0D1A1	7501 3000/2.0D1A1	7501 3000/3.0D1A1	7501 3000/5.0D1A1	7501 3000/10D1A1
● Yellow	7511 3000/0.5D1A1	7511 3000/1.0D1A1	7511 3000/2.0D1A1	7511 3000/3.0D1A1	7511 3000/5.0D1A1	7511 3000/10D1A1
● Green	7521 3000/0.5D1A1	7521 3000/1.0D1A1	7521 3000/2.0D1A1	7521 3000/3.0D1A1	7521 3000/5.0D1A1	7521 3000/10D1A1
● Blue	7531 3000/0.5D1A1	7531 3000/1.0D1A1	7531 3000/2.0D1A1	7531 3000/3.0D1A1	7531 3000/5.0D1A1	7531 3000/10D1A1
● Red	7551 3000/0.5D1A1	7551 3000/1.0D1A1	7551 3000/2.0D1A1	7551 3000/3.0D1A1	7551 3000/5.0D1A1	7551 3000/10D1A1

i Additional lengths on request

CobiNet RJ45 patch cable Class E_A/Corning FutureCom™ + Hirose TM21

- Class E_A as per ISO/IEC 11801 AMD2:2010-04
- Design: S/FTP
- Sheath: LSHF
- Configuration of the RJ45 plug 1:1 as per TIA568B
- 10 GB



Length Colour	0.5 m	1.0 m	2.0 m	3.0 m	5.0 m	10.0 m
● Grey	7501 3000/0.5D1A2	7501 3000/1.0D1A2	7501 3000/2.0D1A2	7501 3000/3.0D1A2	7501 3000/5.0D1A2	7501 3000/10D1A2
● Yellow	7511 3000/0.5D1A2	7511 3000/1.0D1A2	7511 3000/2.0D1A2	7511 3000/3.0D1A2	7511 3000/5.0D1A2	7511 3000/10D1A2
● Green	7521 3000/0.5D1A2	7521 3000/1.0D1A2	7521 3000/2.0D1A2	7521 3000/3.0D1A2	7521 3000/5.0D1A2	7521 3000/10D1A2
● Blue	7531 3000/0.5D1A2	7531 3000/1.0D1A2	7531 3000/2.0D1A2	7531 3000/3.0D1A2	7531 3000/5.0D1A2	7531 3000/10D1A2
● Red	7551 3000/0.5D1A2	7551 3000/1.0D1A2	7551 3000/2.0D1A2	7551 3000/3.0D1A2	7551 3000/5.0D1A2	7551 3000/10D1A2

i Additional lengths on request

CobiNet RJ45 patch cable Class E_A/Corning FutureCom™ + AMP EMT

- Class E_A as per ISO/IEC 11801 AMD2:2010-04
- Design: S/FTP
- Sheath: LSHF
- Configuration of the RJ45 plug 1:1 as per TIA568B
- 10 GB



Length Colour	0.5 m	1.0 m	2.0 m	3.0 m	5.0 m	10.0 m
● Grey	7501 3000/0.5D1B1	7501 3000/1.0D1B1	7501 3000/2.0D1B1	7501 3000/3.0D1B1	7501 3000/5.0D1B1	7501 3000/10D1B1
● Yellow	7511 3000/0.5D1B1	7511 3000/1.0D1B1	7511 3000/2.0D1B1	7511 3000/3.0D1B1	7511 3000/5.0D1B1	7511 3000/10D1B1
● Green	7521 3000/0.5D1B1	7521 3000/1.0D1B1	7521 3000/2.0D1B1	7521 3000/3.0D1B1	7521 3000/5.0D1B1	7521 3000/10D1B1
● Blue	7531 3000/0.5D1B1	7531 3000/1.0D1B1	7531 3000/2.0D1B1	7531 3000/3.0D1B1	7531 3000/5.0D1B1	7531 3000/10D1B1
● Red	7551 3000/0.5D1B1	7551 3000/1.0D1B1	7551 3000/2.0D1B1	7551 3000/3.0D1B1	7551 3000/5.0D1B1	7551 3000/10D1B1



Additional lengths
on request

CobiNet RJ45 patch cable Class E_A/Corning FutureCom™ + Stewart SS-39200

- Class E_A as per ISO/IEC 11801 AMD2:2010-04
- Design: S/FTP
- Sheath: LSHF
- Configuration of the RJ45 plug 1:1 as per TIA568B
- 10 GB



Length Colour	0.5 m	1.0 m	2.0 m	3.0 m	5.0 m	10.0 m
● Grey	7501 3000/0.5D1C1	7501 3000/1.0D1C1	7501 3000/2.0D1C1	7501 3000/3.0D1C1	7501 3000/5.0D1C1	7501 3000/10D1C1
● Yellow	7511 3000/0.5D1C1	7511 3000/1.0D1C1	7511 3000/2.0D1C1	7511 3000/3.0D1C1	7511 3000/5.0D1C1	7511 3000/10D1C1
● Green	7521 3000/0.5D1C1	7521 3000/1.0D1C1	7521 3000/2.0D1C1	7521 3000/3.0D1C1	7521 3000/5.0D1C1	7521 3000/10D1C1
● Blue	7531 3000/0.5D1C1	7531 3000/1.0D1C1	7531 3000/2.0D1C1	7531 3000/3.0D1C1	7531 3000/5.0D1C1	7531 3000/10D1C1
● Red	7551 3000/0.5D1C1	7551 3000/1.0D1C1	7551 3000/2.0D1C1	7551 3000/3.0D1C1	7551 3000/5.0D1C1	7551 3000/10D1C1



Additional lengths
on request

Copper data networks

Tools

CobiNet LSA insertion tool with sensor

- For the soldering, screwing and stripping-free insertion and simultaneous cutting to length of cable cores on LSA modules
- For conductor diameters of 0.35...0.9 mm and core diameters of 0.7...2.6 mm
- With fold-out release blade and fold-out extraction hook
- Up to 200,000 connection processes
- Scissors can be deactivated for looping cores through via multiple contacts
- With a sensor for the correct positioning of the cores within the LSA contact (can be deactivated)
- Used worldwide in leading telecommunications companies



Item	Item no.	Fig.
LSA insertion tool with sensor	1008 3101	1

CobiNet slicing tool

- Specially designed for data cables with pair shielding
- Stripping: Cable diameter 4.8-10 mm
- Separate blade for scoring the pair shielding



Item	Item no.	Fig.
Slicing tool	1200 342	2

CobiNet stripping tool

- For shielded and unshielded cables
- Stripping: Cable diameter up to 11 mm
- Automatically adjusts to the cable diameter



Item	Item no.	Fig.
Stripping tool	1200 341	3

CobiNet RJ45 coupling KS

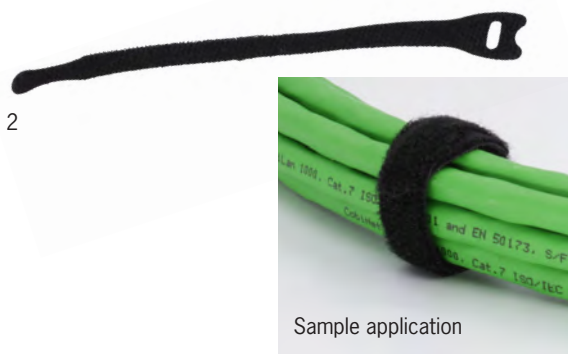
- Compact, individually shielded RJ45 coupling in Keystone format
- Fully shielded zinc die-cast housing



Item	Item no.	Fig.
RJ45 coupling CobiDat KS IPS 250 MHz, Class E PL as per ISO/IEC 11801	6925 1022	1
RJ45 coupling CobiDat KS IPS 500 MHz, Class E _A PL as per ISO/IEC 11801 AMD2	6925 1052	

CobiNet hook-and-loop cable clip

- Dimensions (L x H): 205 x 12 mm
- Colour: Black



Item	Item no.	Fig.
Hook-and-loop cable clip	1036 026	2

CobiNet conductive copper tape

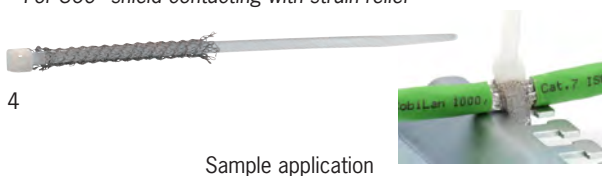
- Self-adhesive copper tape
- Length: 16.5 m
- Width: 9 mm



Item	Item no.	Fig.
Self-adhesive conductive copper tape	1036 015	3

CobiNet cable tie, shielded

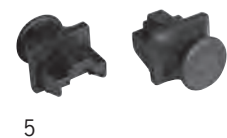
- Colour: White
- For 360° shield contacting with strain relief



Item	Item no.	Fig.
Dimensions (L x W): 100 x 2.5 mm Length of braided shield: 40 mm	1036 014	4
Dimensions (L x W): 120 x 4.8 mm Length of braided shield: 60 mm	1036 025	

CobiNet RJ45 dummy plug

- Protects unused RJ45 jacks from dust, dirt and damage



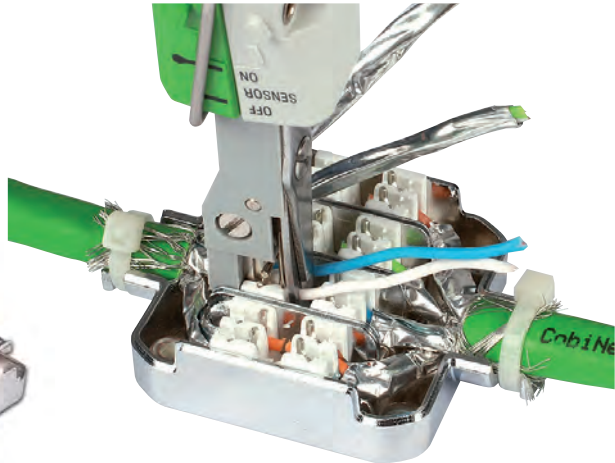
Item	Item no.	Fig.
RJ45 dummy plug, black	5050 012/SW	5
RJ45 dummy plug, grey	5050 012/GR	

Copper data networks

Accessories

CobiNet cable connectors LSA

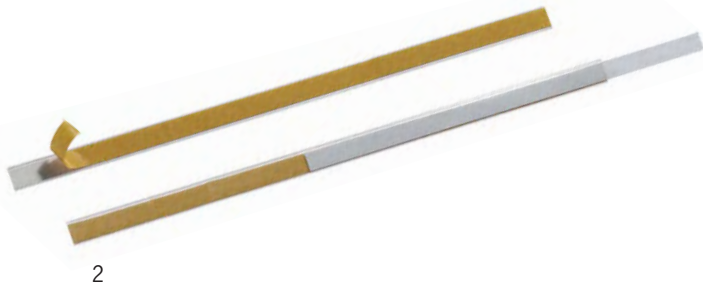
- Compact connector for data cables
- Quick assembly using the LSA insertion tool
- Excellent transmission parameters thanks to chamber shielding and boardless design
- Fully shielded housing in Cat. 6 and Cat. 7 versions
- 360° shielding connection separate from the strain relief
- LSA contacts with 45° incline
- Dimensions (W x H x D): 48 x 16 x 39 mm



Item	Item no.	Fig.
Cable connector LS Cat. 7	5040 707	1
Cable connector LS Cat. 6	5040 706	

CobiNet labelling strip holder, self-adhesive

- Length: 430 mm
- Width: 12 mm
- Self-adhesive
- Incl. labelling insert
- For labelling ports on patch fields, supporting frames, etc.



Item	Item no.	Fig.
Labelling strip holder, universal, self-adhesive	5050 500	2

CobiNet surface-mounted frame

- For extending flush-mounted outlets to include surface-mounted outlets
- DIN rail assembly possible
- Depth: 40 mm
- RAL 9010 (pure white)



Item	Item no.	Fig.
Surface-mounted frame	5041 176	3

CobiNet mounting bracket for dado trunking

- For installation in 60-mm-deep Tehalit dado trunking



Item	Item no.	Fig.
For 60-mm-deep Tehalit dado trunking	6050 188	4
For 70-mm-deep Tehalit dado trunking	6050 189	
For 85-mm-deep Tehalit dado trunking	6050 190	

T adapter

CobiNet T adapter for cable sharing

- RJ45 plug to 2x RJ45 jack (shielded)
- Cable length: 15 cm
- Option of wall attachment

Item	Item no.	Fig.
2x 10/100BaseT Configuration: RJ45 plug – RJ45 jack (1) 1-1, 2-2, 3-3, 6-6 RJ45 plug – RJ45 jack (2) 4-1, 5-2, 7-3, 8-6	5122 015	
10/100BaseT + ISDN Configuration: RJ45 plug – RJ45 jack (1) 1-1, 2-2, 3-3, 6-6 RJ45 plug – RJ45 jack (2) 4-4, 5-5, 7-3, 8-6	5123 015	
2x ISDN Configuration: RJ45 plug – RJ45 jack (1) 1-3, 2-6, 7-4, 8-5 RJ45 plug – RJ45 jack (2) 3-3, 4-4, 5-5, 6-6	5124 015	
2x 1:1 Configuration: RJ45 plug – RJ45 jack (1) 1-1, 2-2, 3-3, 6-6, 4-4, 5-5, 7-7, 8-8 RJ45 plug – RJ45 jack (2) 1-1, 2-2, 3-3, 6-6, 4-4, 5-5, 7-7, 8-8	5125 015	1



1

Mounting kits

CobiNet 19" mounting kit

- For mounting 19" fixtures
- Consisting of
4x caged nut M6
4x plastic washer M6
4x round-head screw M6



2

Item	Item no.	Fig.
Mounting kit	5010 044	2
50x mounting kit	5010 044#50	

CobiNet 19" earth mounting kit

- For simultaneously mounting and earthing painted 19" fixtures
- Consisting of
4x caged nut M6 with earthing claws
4x plastic washer M6
4x round-head screw M6
- Required for painted 19" fixtures

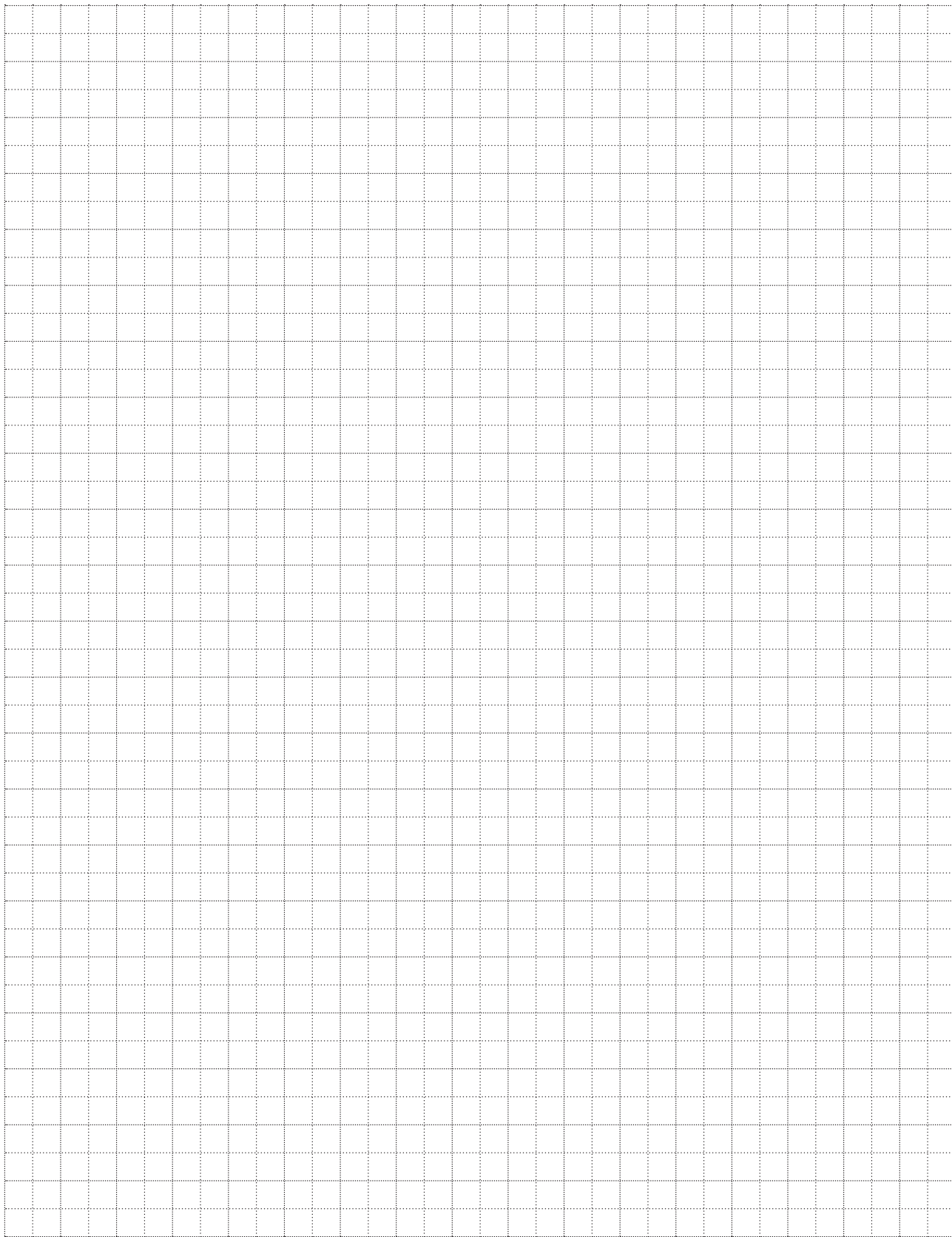


3

Item	Item no.	Fig.
Earth mounting kit	5010 044/E	3
50x earth mounting kit	5010 044/E#50	

Notes

Make plans with us!



CobiNet

Copper data networks – unshielded

	Pages
System overviews of CobiNet KS and	
CobiNet LSA	42
Data cables	43
Cable connectors LSA	43
Keystone KS	44
Press-in/insertion tool	44
Patch fields for Keystone KS	45
Accessories	45
Keystone support for Keystone KS	46
Consolidation-point housing for Keystone KS	47
Connection housing, surface-mounted, for Keystone KS	47
DIN rail housing	48
RJ45 patch fields LSA	49
Mounting kits	49
RJ45 outlets LSA	50
LSA universal test cord 7052	50
RJ45 patch cable	51
- Cat. 6	51
- Cat. 5e	51

Copper data networks – unshielded

System overviews of CobiNet KS and CobiNet LSA

KS system

The CobiNet KS system is a modular component system with mechanically and electrically optimised components. The incoming installation cable and the CobiNet Keystone jack are engaged into different and perfectly coordinated CobiNet system components by means of a snap lock.

Features:

- Quality product: Meets the standard requirements with substantial reserves
- Quicker assembly time: Toolless connection
- Future sustainability: High-quality installation cables and connection jacks
- Modular construction: Different types of requirements can be mastered within one rack unit.



Systems	Patch cable	+	Patch field	+	Keystone	+	Installation cable	+	Keystone	+	KS support
Cat. 6	7502 1000/1.0		6921 9118.1		6920 0110		9321 0335/B		6920 0110		6922 2910
Class 5e	7502 0005/1.0		6921 9118.1		6920 0120		9321 0145/B		6920 0120		6922 2910
Item	See page 51		See page 45		See page 44		See page 43		See page 44		See page 50

LSA system

In the CobiNet LSA system, the incoming cable is connected into LSA contacts directly on the component's printed circuit board, using the LSA insertion tool. The entire component is then fixed in place at the corresponding assembly site.

Features:

- Excellent value for money
- Simple, classic connection



Systems	Patch cable	+	Patch field	+	Installation cable	+	Data socket
Cat. 6	7502 1000/1.0		6931 1318		9321 0335/B		6932 1311
Class 5e	7502 0005/1.0		6931 0118		9321 0145/B		6932 0111
Item	See page 51		See page 49		See page 43		See page 50

Data cables

CobiNet data cable 350 U/UTP Cat. 6

- 350 MHz, LSZH, Cu, blank
- Simplex
- AWG 23
- RAL 6018 (yellow green)
- Reelex cable box 305 m
- Unshielded

Item	Item no.	Fig.
CobiNet 350 U/UTP	9321 0335/B	1



1

CobiNet data cable 100 U/UTP Cat. 5e

- 100 MHz, LSZH, Cu, blank
- Simplex
- AWG 24
- RAL 6018 (yellow green)
- Reelex cable box 305 m
- Unshielded

Item	Item no.	Fig.
CobiNet 100 U/UTP	9321 0145/B	2



2

Cable connectors

CobiNet cable connector LSA Cat. 5e UTP

- Compact connector for data cables
- Dimensions (W x H x D): 48 x 16 x 39 mm
- Unshielded

Item	Item no.	Fig.
Cable connector LSA Cat. 5e	5040 705	3



3

Copper data networks – unshielded

Keystone KS



1



2



3



4

CobiNet Keystone KS

- Compact, individually unshielded RJ45 module in Keystone format

Item	Ethernet	Stand-ard	P/N	Fig.
RJ45 jack CobiNet KS IPU 250, Cat. 6 UTP Cat. 6 as per ISO/IEC 11801 Toolless connection Compact, individually unshielded RJ45 module in Keystone format White-black plastic housing	1 GB	ISO	6920 0110	1
RJ45 jack CobiNet KS IPU 250, Cat. 6 UTP Cat. 6 as per ISO/IEC 11801 Compact, individually unshielded RJ45 module in Keystone format White plastic housing	1 GB	ISO	6920 0112	2
RJ45 jack CobiNet KS IPU 100, Cat. 5e UTP Cat. 5e as per ISO/IEC 11801 Toolless connection Compact, individually unshielded RJ45 module in Keystone format White-black plastic housing	1 GB	ISO	6920 0120	3
RJ45 jack CobiNet KS IPU 100, Cat. 5e UTP Cat. 5e as per ISO/IEC 11801 Compact, individually unshielded RJ45 module in Keystone format White plastic housing	1 GB	ISO	6920 0122	4

CobiNet press-in tool for Keystone modules

- Ergonomically designed plastic handle
- With metal cutting blade
- For pressing in conductor diameters from 0.4-0.8 mm
- Suitable for unshielded keystones: 6920 0112 and 6920 0122



5

Item	Item no.	Fig.
Press-in tool	8010 111	5

CobiNet LSA insertion tool with sensor

- For the soldering, screwing and stripping-free insertion and simultaneous cutting to length of cable cores on LSA modules
- With fold-out extraction hook and release blade
- For conductor diameters of 0.35...0.9 mm and core diameters of 0.7...2.6 mm
- With a sensor for scanning the core end position
- Scissors can be deactivated for looping cores through via multiple contacts



6

See page 36 for details

Item	Item no.	Fig.
LSA insertion tool with sensor	1008 3101	6

Patch fields for RJ45 jacks KS



CobiNet patch panel KS

- Unequipped patch panel for the accommodation of KS system RJ45 modules
- 19" (width: 482.6 mm)
- Earthing via earthing screw M6 in accordance with DIN VDE 0100
- Incl. earth cable and cable ties
- Incl. mounting kit

Item	Front panel colour	Item no.	Fig.
24x, 1 RU empty housing, modules' RJ45 contacts at the top	RAL 9005 (jet black)	6921 9118.1	1
Labelling strips for patch panels 24x KS, 3-part		6929 3200	2

Accessories

CobiNet dummy plug KS

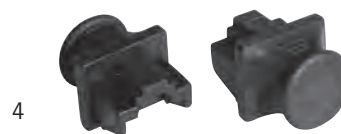
- Dummy plug KS for covering unused Keystone break-outs



Item	Item no.	Fig.
Dummy plug, RAL 9010 (jet black)	6929 0008	3

CobiNet RJ45 dummy plug

- Protects unused RJ45 jacks from dust, dirt and damage



Item	Item no.	Fig.
RJ45 dummy plug, black	5050 012/SW	4

Copper data networks – unshielded

Keystone support, 1-way, 2-way, 3-way

CobiNet Keystone support KS

- Unequipped Keystone support for dado trunking and flush-mounted assembly, for the accommodation of CobiNet KS system unshielded RJ45 jacks
- Angled outlet 45°
- Central plate 50 x 50 mm with integrated dust protection covers, cover frame 80 x 80 mm
- Suitable for standard switch ranges
- Inspection window with labelling insert
- Option of connecting a potential equalisation conductor using a cable lug and M4 screw
- Colour: RAL 9010 (pure white)

Item	Item no.	Fig.
1-way Keystone support KS	6922 1910	
2-way Keystone support KS	6922 2910	1
3-way Keystone support KS	6922 3910	2



1



2



Sample application

CobiNet outlet insert KS, 45 x 45 mm

- Unequipped outlet insert for wall outlets with 45 x 45 mm opening, for the accommodation of CobiNet KS system RJ45 jacks
- Straight outlet
- Integrated dust protection covers with spring fastener
- Recessed labelling area
- Colour: RAL 9010 (pure white)

Item	Item no.	Fig.
1-way outlet insert KS	6922 1111	3
2-way outlet insert KS	6922 2111	



3

Small distributors

6x/12x CobiNet consolidation-point housing KS

- Unequipped plastic housing for the accommodation of a maximum of 6x CobiNet KS system RJ45 modules
- Dimensions (W x H x D): 170 x 40 x 120 mm
- Colour: White

Item	Item no.	Fig.
6-way/12-way consolidation-point housing KS	6923 1600	1

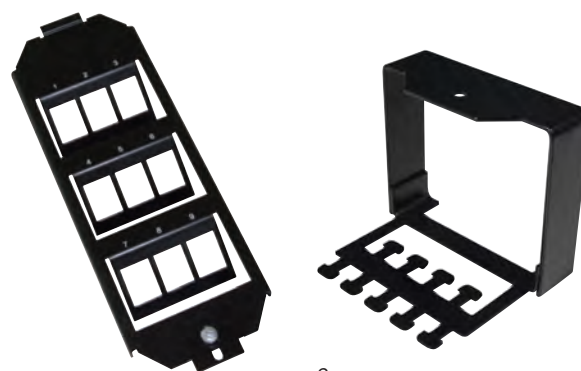


1

Supporting frame for underfloor systems

- Empty bracket for the accommodation of KS system RJ45 modules
- Used instead of the GB2/3 underfloor device insert from OBO Bettermann (Ackermann)
- Earthing bolt on the bottom
- Colour: RAL 9005 (jet black)

Item	Section	Item no.	Fig.
5-way supporting frame	GB2	6923 2600	
9-way supporting frame	GB3	6923 2900	2
Cable fixation for supporting frame, height: 60 mm		6923 2000	3



2

3

Surface-mounted connection housings

2x CobiNet surface-mounted data connection housing KS (IP44)

- Unequipped
- For 2 x RJ45 jack KS vertically downwards
- Dimensions (W x H x D): 75 x 75 x 58 mm
- Surface-mounted assembly
- Weather and UV-resistant
- Break-proof thermoplastic
- Degree of protection: IP44
- Colour: Grey



4

Item	Item no.	Fig.
2-way surface-mounted data connection housing KS	6922 2222	4

2x CobiNet surface-mounted data connection housing KS (IP54)

- Unequipped
- For 2 x RJ45 jack KS vertically downwards
- Dimensions (W x H x D): 103 x 185 x 93 mm
- Surface-mounted assembly
- With lock
- Weather and UV-resistant
- Break-proof thermoplastic
- Degree of protection: IP54
- Colour: RAL 7035 (light grey)



5

Item	Item no.	Fig.
2-way surface-mounted data connection housing	6922 2223	5

Copper data networks – unshielded

DIN rail housings

CobiNet DIN rail adapter

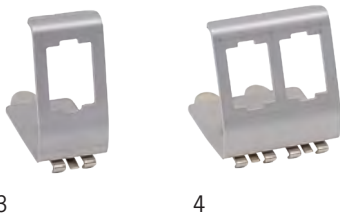
- Metal design with M5 thread without M5 screw
- For DIN rails TS35 as per DIN EN 60715



Item	Item no.	Fig.
DIN rail adapter, M5 thread	3030 122/M	1

CobiNet DIN rail module bracket KS

- Unequipped adapter bracket for the accommodation of KS system RJ45 modules on DIN rails TS35 as per DIN EN 60715
- Incl. DIN rail adapter



Item	Item no.	Fig.
1x DIN rail module bracket KS Width 23 mm	6923 0100	3
2x DIN rail module bracket KS Width 42 mm	6923 0200	4

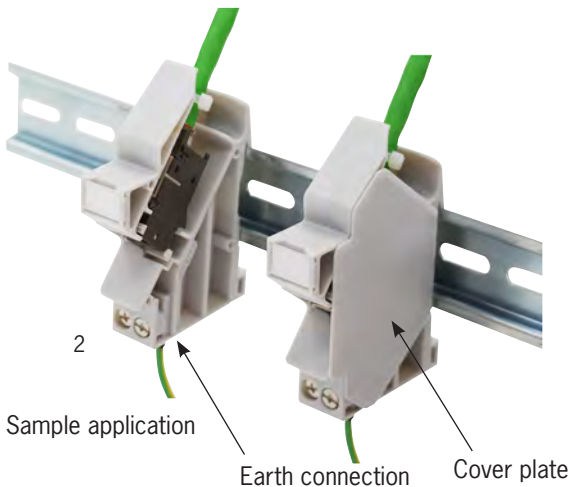
CobiNet module bracket KS, flexible

- For the accommodation of KS system RJ45 modules
- For DIN rails TS35 as per DIN EN 60715
- Can be adapted to the particular number of modules using wire cutters
- Without DIN rail adapter (3030122/M, see below)



CobiNet DIN rail module housing KS

- Unequipped adapter bracket for the accommodation of KS system RJ45 modules on DIN rails TS35 as per DIN EN 60715
- Adapted size for assembly in meter cabinets, sub-distributors and control cabinets with DIN rails
- For the performance-related connection of meters and communications devices with RJ45 jack
- Colour: RAL 7035 (light grey)



Item	Item no.	Fig.
1x DIN rail module housing KS W x H x D: 18 x 65 x 90 mm	6923 0101	2

Sample application

Item	Item no.	Fig.
Module bracket KS, flexible	6671 016.1	5

CobiNet RJ45 patch panel LSA

- Particularly quick and easy to assemble with LSA insertion tool
- Suitable for use with solid and flexible conductors
- 19" (width: 482.6 mm)
- Earthing via earthing screw M6 in accordance with DIN VDE 0100
- Incl. earth cable and cable ties
- Incl. mounting kit
- Unshielded



Item	Ethernet	Rack units	Front panel colour	Item no.	Fig.
RJ45 patch panel LSA IPU 250 Class E unshielded	1 GB	1	RAL 9005 (jet black)	6931 1318	1
RJ45 patch panel LSA ICU 100 Cat. 5e unshielded	1 GB	1	RAL 9005 (jet black)	6931 0118	

Copper data networks – unshielded

RJ45 outlets LSA

CobiNet RJ45 outlets LSA

- For dado trunking and flush-mounted assembly
- 2x RJ45 connections
- Angled outlet 45°
- Central plate 50 x 50 mm with integrated dust protection covers, cover frame 80 x 80 mm
- Multi-design: Central plate and cover frame can be replaced with almost all switch ranges available on the market
- Inspection window with labelling insert
- Colour: RAL 9010 (pure white)
- Unshielded



Item	Ethernet	Cable feed	Item no.	Fig.
RJ45 outlets LSA IPU Class E unshielded	1 GB	Side	6932 1311	1
		Top/bottom	6932 1301	
RJ45 outlets LSA ICU Cat. 5e unshielded	1 GB	Side	6932 0111	
		Top/bottom	6932 0101	

Test cord

CobiNet LSA universal test cord 7052, 2-pin

- Fitted with a plug for tapping almost all LSA contacts and 2 jacks (4 mm) for banana plugs
- 2-pin tapping of the LSA contact using 2 spring contacts in the plug
- For parallel connection to a twisted pair

Item	Item no.	Fig.
0.2 m	3020 003/0.2	2



Sample application

Copper data networks – unshielded

RJ45 patch cables

CobiNet RJ45 patch cable Cat. 6, 250 MHz

- Cat. 6 as per ANSI/TIA-568-C.2
- Design: U/UTP, AWG 24/7
- Sheath: PVC
- Configuration of the RJ45 plug 1:1 as per TIA568B
- Conductor material: Blank copper
- Unshielded



Length Colour	0.5 m	1.0 m	2.0 m	3.0 m	5.0 m	7.5 m	10.0 m
● Grey	7502 1005/0.5	7502 1005/1.0	7502 1005/2.0	7502 1005/3.0	7502 1005/5.0	7502 1005/7.5	7502 1005/10.0
● Yellow	7512 1005/0.5	7512 1005/1.0	7512 1005/2.0	7512 1005/3.0	7512 1005/5.0	7512 1005/7.5	7512 1005/10.0
● Green	7522 1005/0.5	7522 1005/1.0	7522 1005/2.0	7522 1005/3.0	7522 1005/5.0	7522 1005/7.5	7522 1005/10.0
● Blue	7532 1005/0.5	7532 1005/1.0	7532 1005/2.0	7532 1005/3.0	7532 1005/5.0	7532 1005/7.5	7532 1005/10.0
● Red	7552 1005/0.5	7552 1005/1.0	7552 1005/2.0	7552 1005/3.0	7552 1005/5.0	7552 1005/7.5	7552 1005/10.0



Additional lengths
on request

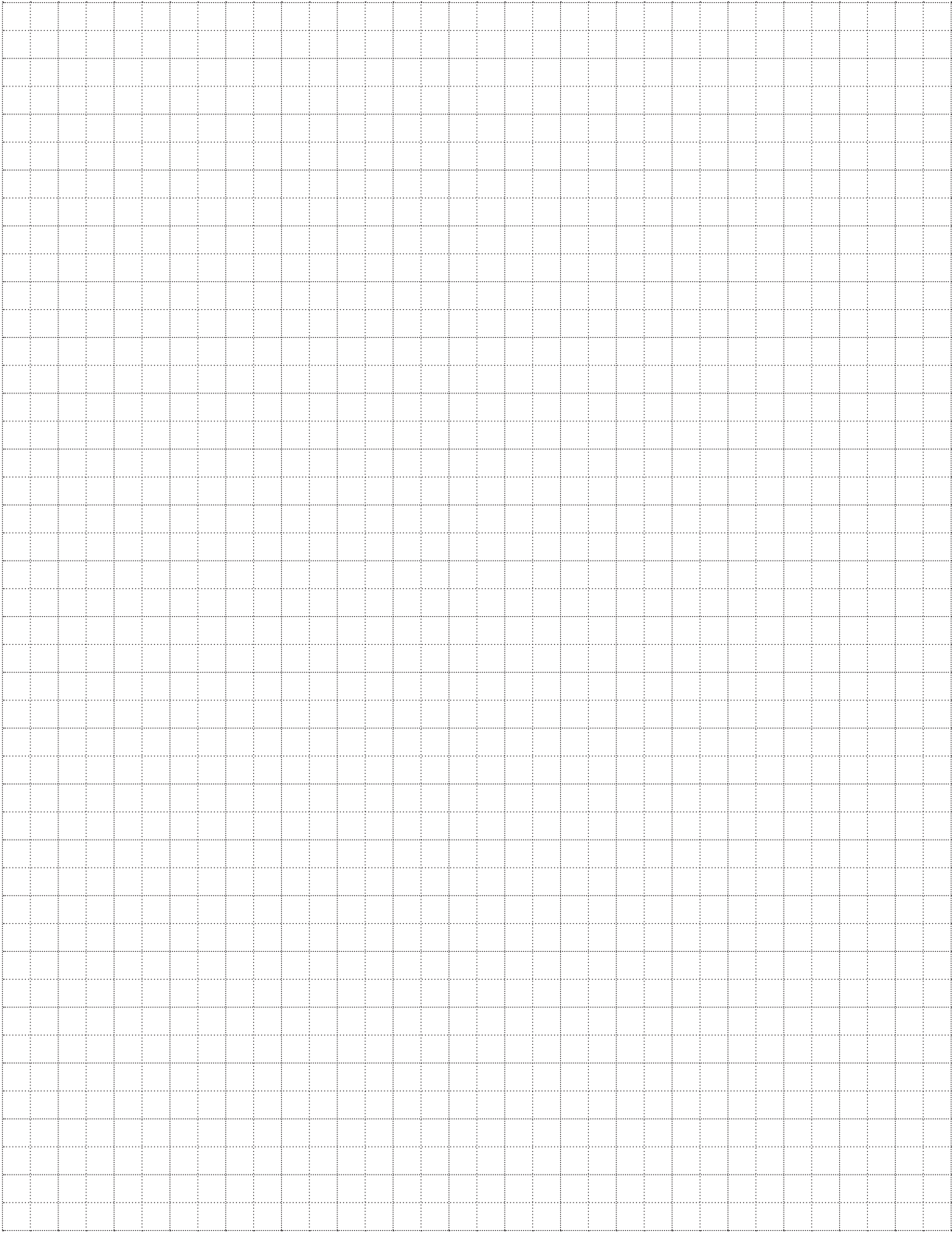
CobiNet RJ45 patch cable Cat. 5e, 100 MHz

- Cat. 5e as per ANSI/TIA-568-C.2
- Design: U/UTP, AWG 24/7
- Sheath: PVC
- Configuration of the RJ45 plug 1:1 as per TIA568B
- Conductor material: Blank copper
- Unshielded



Length Colour	0.5 m	1.0 m	2.0 m	3.0 m	5.0 m	7.5 m	10.0 m
● Grey	7502 0005/0.5	7502 0005/1.0	7502 0005/2.0	7502 0005/3.0	7502 0005/5.0	7502 0005/7.5	7502 0005/10.0
● Yellow	7512 0005/0.5	7512 0005/1.0	7512 0005/2.0	7512 0005/3.0	7512 0005/5.0	7512 0005/7.5	7512 0005/10.0
● Green	7522 0005/0.5	7522 0005/1.0	7522 0005/2.0	7522 0005/3.0	7522 0005/5.0	7522 0005/7.5	7522 0005/10.0
● Blue	7532 0005/0.5	7532 0005/1.0	7532 0005/2.0	7532 0005/3.0	7532 0005/5.0	7532 0005/7.5	7532 0005/10.0
● Red	7552 0005/0.5	7552 0005/1.0	7552 0005/2.0	7552 0005/3.0	7552 0005/5.0	7552 0005/7.5	7552 0005/10.0

Make plans with us!



HD solutions for computer centres

	Page
Computer centre	54
Cabling concept	55
System overview of HD solutions	56
HY-HD system	58
Module bracket HY-HD	58
Dummy module HY-HD	58
Copper module HY-HD	59
Glass module HY-HD	60
MTP®/MPO polarity	61
F-HD system	62
Cassette carrier F-HD	62
Cassettes F-HD	62
Cabling F-HD	63
KS-HD system	64
Distributor housing KS-HD	64
Trunk cable KS-HD	65

Computer centre

Brief definition of a computer centre

A computer centre stores a company's, government's or public institution's central information technology, and acts as the central storage location and the place where the most important data processing processes are carried out.

Safe and fault-free operation forms the basis of a company's or an institution's success. Based on economic or government principles, there will be particular requirements with regard to availability.

Big Data, Industry 4.0, the Internet of Things and cloud computing are calling for ever-faster transmission rates and larger memory and computing capacities.

The capacities of a computer centre are therefore continually being expanded and brought into line with the latest state-of-the-art technology. As a result, there is extremely high demand for the infrastructure in place to have good migration capabilities.

Planning and risk analysis

In order to ensure that a computer centre can operate safely and efficiently, a risk analysis needs to be carried out right at the very start, taking issues such as those outlined below into account.

- Access control
- Climate control
- Power supply/energy consumption
- Fire protection, EMC, lightning protection
- IT cabling
- Building construction
- Environmental incidents
- Redundancy concepts/high availability

Uniformity and standardisation

In order to standardise the complex requirements with regard to the planning and operation of a computer centre, there is now a multi-part comprehensive set of standards at European level (see figure below) in the form of DIN EN 50600.

Core competence

As a manufacturer of cabling solutions, CobiNet primarily deals with DIN EN 50600-2-4 with regard to the infrastructure of telecommunications cabling, and, to this end, offers high-performance trunk cable solutions in copper and glass, with corresponding packaging densities in the form of HD (high-density) solutions.



Information technology, equipment and infrastructures of computer centres

EN 50600



EN 50600-1

General concepts

EN 50600-2-1

Building construction

EN 50600-2-2

Power supply

EN 50600-2-3

Controlling the ambient conditions

EN 50600-2-4

Infrastructure of telecommunications cabling

EN 50600-2-5

Security systems

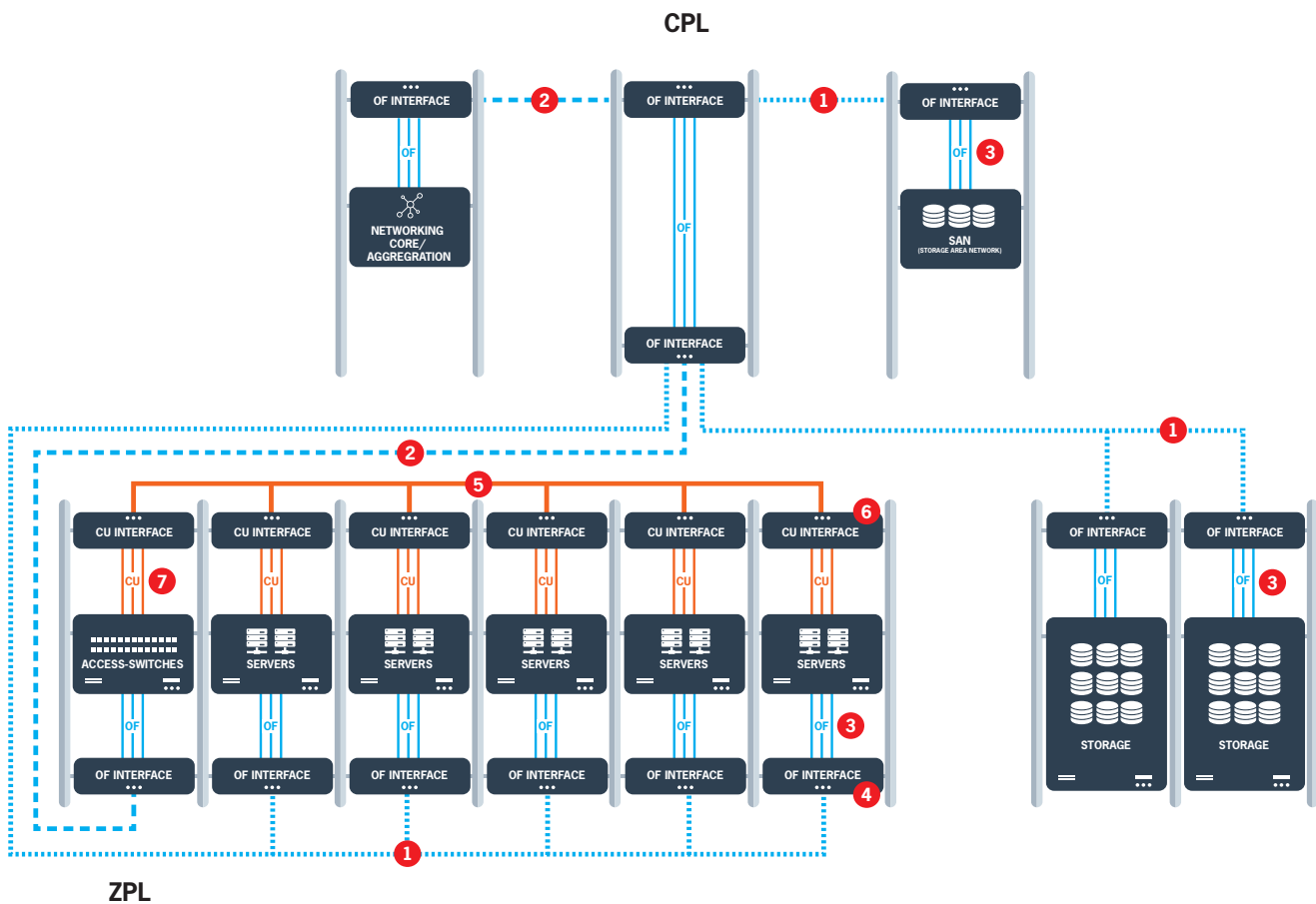
Class 2 cabling concept as per DIN EN 50600

Illustration of an end-of-row concept with:

CPL: Central patch distributor, glass (OF)

ZPL: Zone patch distributor, glass (OF) and copper (CU) with access switches (end-of-row, EoR)

- | | | |
|----------|--|-------------------|
| 1 | Trunk cable, glass (Fibre Channel SAN + Storage) | See page 60 or 63 |
| 2 | Trunk cable, glass (network IP) | See page 60 or 63 |
| 3 | Patch cable, glass | See page 140 |
| 4 | Module bracket/cassette carrier, glass | See page 60 or 62 |
| 5 | Trunk cable, copper | See page 58 or 65 |
| 6 | Module bracket, copper | See page 58 or 64 |
| 7 | Patch cable, copper | See page 26 |



Computer centre

System overview

HY-HD system for copper and fibre-optic configuration

The CobiNet HY-HD (Hybrid High Density) system is a hybrid solution characterised by its high packaging density. Both copper modules and fibre-optic modules can be snapped into place in a 19" module bracket (1RU) without the need for any tools.

The modules are made of galvanised thin sheet metal and are pre-assembled at the factory as trunk cables.

Up to 48 copper ports or 96 fibre-glass ports can be connected per module bracket/height unit.

Depending on the application, it is also possible to fit a height unit with a mixture of copper and fibre-optic modules (hybrid configuration).

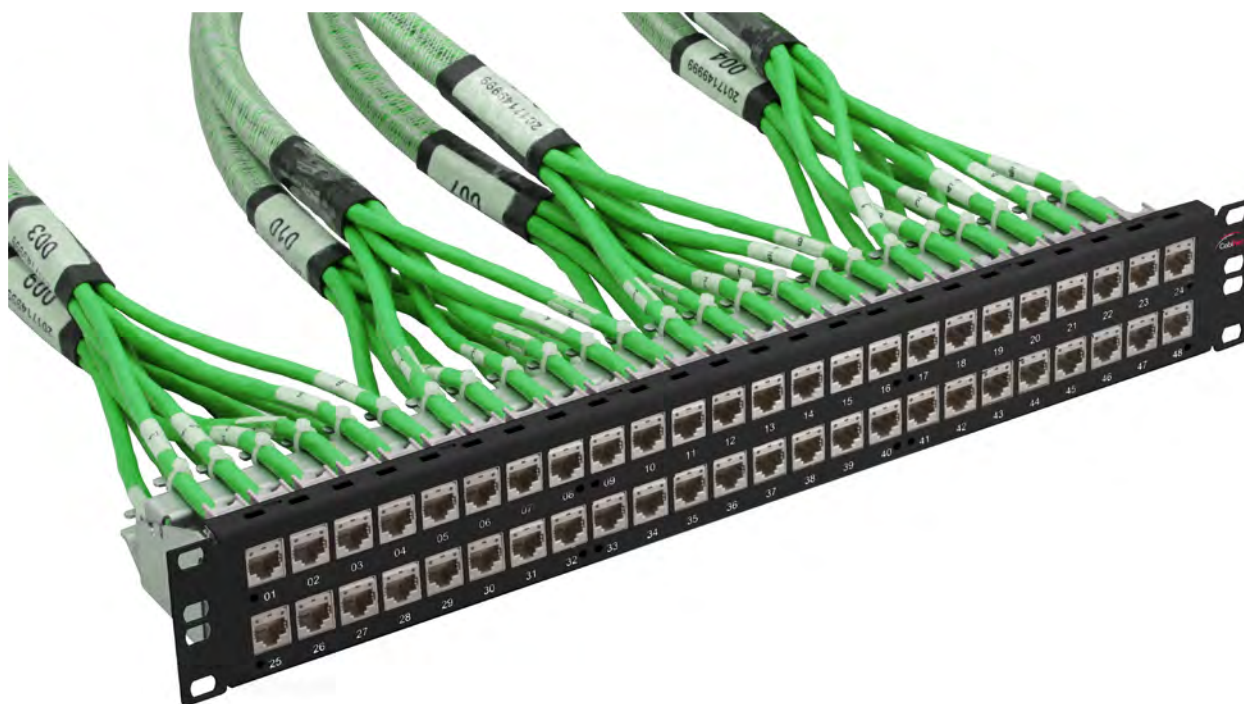


KS-HD system for copper configuration

The CobiNet KS-HD (Keystone High Density) system is a standard Keystone solution with space-optimised fixtures.

The system is based on the RJ45 Keystone Cat. 6_A standard with its outstanding transmission properties. It is pre-assembled as a 6-way or 8-way copper trunk cable at the factory.

The copper trunk cables are snapped into place in a 19" module bracket (1.5 RU) with 48 ports, without the need for any tools.



CobiNet F-HD system

The CobiNet F-HD (Fibre High Density) system is optimised for the highest possible packaging density. The key component is a 19" cassette carrier (1 or 2 RU) with extendible drawers for the accommodation of ultra-flat cassettes.

Particular importance was allocated to the accessibility from the front and rear, and to optimum cable guidance, both for the access cables and for the patch cables.

The accommodation capacity is 144 fibres with LC connections per height unit (288 with 2 RU) or up to 864 fibres with purely MTP® applications.

The ultra-flat cassettes are suitable for 10 GB applications when using LC connectors.

Migration to 40/100 GB when using MTP® connections can be carried out by using ultra-flat MTP® cassettes.



CobiNet HY-HD system

CobiNet trunk cable HY-HD 6x RJ45 Class E_A AWG 23/18 mm up to 80 m

- Modules attached via screwless catch in HY-HD module bracket
- Slimline connector design in zinc die-cast
- Zinc-plated steel plate housing
- With assembled modules on each side, 6 x RJ45 Class E_A
- Suitable for 10 GB Ethernet as per IEEE 802.3an
- AWG 23/18.0 mm for
max. transmission length: 80 m (standard permanent link)
- Class E_A (ISO/IEC 11801 Amd 2:2010-04) and EN 50173-5
- Flame-retardance: IEC 60332-1; IEC 60754-2; IEC 61034
- Cable fire load: 3120 MJ/km; 0.87 kWh/m
- Cable diameter: 18.0 mm
- Bend radius: 100 mm (with strain relief), 200 mm (without strain relief)
- Insertion aid on both sides
- Configuration 1:1



i Additional lengths
on request

Item	Item no.	Fig.
Trunk cable HY-HD Class E _A AWG 23/18.0 mm Transmission length: max. 80 m (standard permanent link)	DC100 005/XX	1

CobiNet trunk cable HY-HD 6x RJ45 Class E_A AWG 26/13.9 mm up to 60 m

- Modules attached via screwless catch in HY-HD module bracket
- Slimline connector design in zinc die-cast
- Zinc-plated steel plate housing
- With assembled modules on each side, 6 x RJ45 Class E_A
- Suitable for 10 GB Ethernet as per IEEE 802.3an
- AWG 26/13.9 mm for
max. transmission length: 60 m (standard permanent link)
- Class E_A (ISO/IEC 11801 Amd 2:2010-04) and EN 50173-5
- Flame-retardance: IEC 60332-1; IEC 60754-2; IEC 61034
- Cable fire load: 3120 MJ/km; 0.87 kWh/m
- Cable diameter: 13.9 mm
- Bend radius: 100 mm (with strain relief), 200 mm (without strain relief)
- Insertion aid on both sides
- Configuration 1:1



i Additional lengths
on request

Item	Item no.	Fig.
Trunk cable HY-HD Class E _A AWG 26/13.9 mm Transmission length: max. 60 m (standard permanent link)	DC100 006/XX	2

i When ordering, enter length instead of XX.
(Example: DC100 006/25.0 = 25 metres)

CobiNet module bracket HY-HD 19"

- 1 RU, 19" (482.6 mm) empty housing for the insertion of max. 48 RJ45 ports or 48 LC Duplex ports when fully equipped
- For the accommodation of up to 8 HY-HD system modules
- Labelled from 1 to 48 on the module bracket
- Potential equalisation and attachment of the modules via spring clip on the rear
- Potential equalisation connection via 2x M6 bolts on the rear
- Depth: 170 mm
- Attachment dimensions: 465 mm
- RAL 9005 (jet black)



1

Item	Item no.	Fig.
Module bracket HY-HD 19"	DC100 001	1

CobiNet dummy module HY-HD

- Suitable for module bracket HY-HD 19", 1 RU
- For sealing unused module spaces in the module bracket HY-HD
- Made of galvanised steel sheet



2

Item	Item no.	Fig.
Dummy module HY-HD	DC100 002	2



Sample application

CobiNet HY-HD system

CobiNet trunk cable HY-HD 6x LC-DX OM4

- Suitable for module bracket HY-HD
- Modules attached via screwless catch in module bracket HY-HD
- Slimline connector design in zinc die-cast
- Zinc-plated steel plate housing
- Pre-assembled with modules on both sides; 6x LC-DX
Cable: I-V(ZN)H 12G50/125 µm, OM4
- Modules 6x LC-DX based on polarity, method A, configuration 1:1
- Scope of delivery:
2x module 6x LC-DX with assembled cable in specified length



1



Rear view

i When ordering, enter length instead of XX.
(Example: DC200 002/25.0 = 25 metres)

i Connector design
MTP®-f = MTP® female
MTP®-m = MTP® male

CobiNet connection module HY-HD MTP®/6xLC-DX OM4

- Suitable for module bracket HY-HD
- Modules attached via screwless catch in module bracket HY-HD
- Slimline connector design in zinc die-cast
- Zinc-plated steel plate housing
- Fibre-optic module 6x LC-DX fitted with:
 - Front: 6x LC-DX coupling OM4
 - Back: 1x MTP®-m coupling, internal fanout cable 12G 50/125 OM4
- Incl. MTP® trunk cable with 12-fibre MTP®-f connectors
- Cassettes for MTP® based on polarity, method A 1:1
- Scope of delivery:
 - 2x module 6x LC-DX
 - 1x MTP trunk cable with 12-fibre MTP-f connectors in specified length



2



Rear view

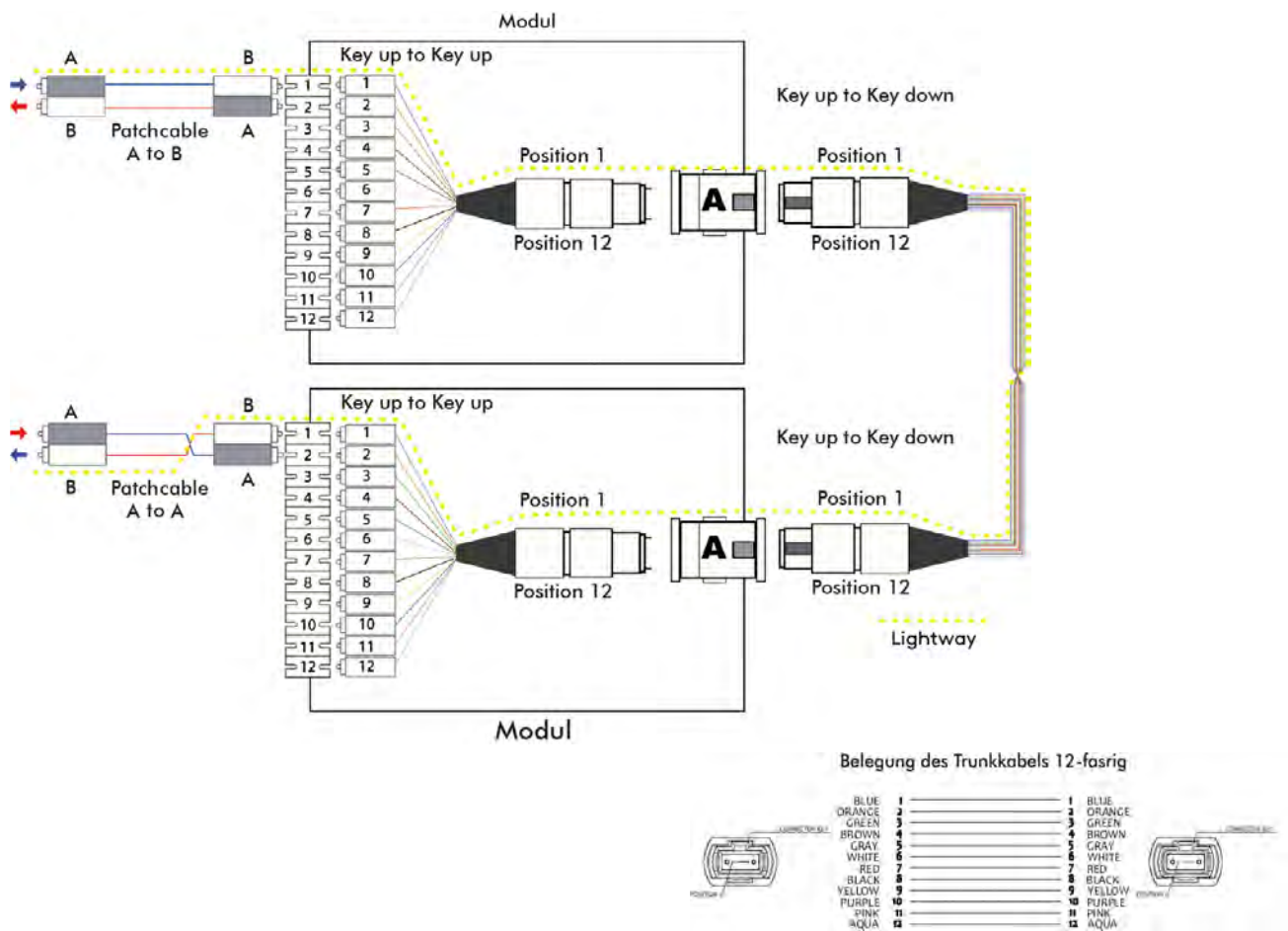
Item	Item no.	Fig.
Trunk cable HY-HD MTP®/6xLC-DX OM4	DC200 001/XX	2

i When ordering, enter length instead of XX.
(Example: DC200 001/25.0 = 25 metres)

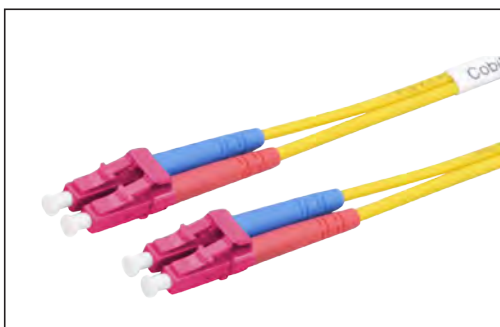
MTP® polarity "method A"

Method A uses a 1:1 configuration with two different patch cables. All components in the link are adjusted as "Key up" or "Key down" (default). The modules are assigned identically. With the patch cables, an "A to B" patch cable is required at one end of the link, with a crossover "A to A" patch cable at the other end.

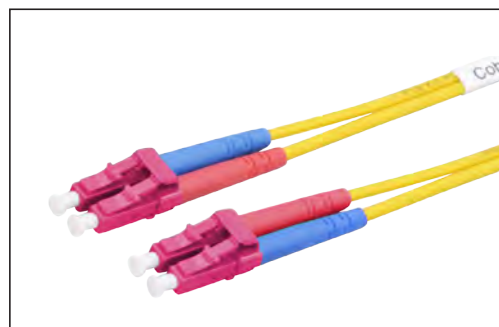
- Two identical modules or cassettes
- Two CobiNet patch cables (see below for crossover)
- 40 GE standard compatible
- For single-mode and multi-mode applications (APC and PC)



Patch cable A to B



Patch cable A to A



With CobiNet patch cables (see page 140), the crossover in the patch cable can be implemented on-site by the customer using the Duplex clip.

Computer centre

CobiNet F-HD system

CobiNet cassette carrier F-HD 19", extendible

- Extendible incl. cable management extension
- 1 RU, 19" (482.6 mm) for 12 insertion cassettes, or
2 RU, 19" (482.6 mm) for 24 insertion cassettes
- With 3 or 6 individually extendible drawers
- 4 insertion cassettes per drawer
- Insertion cassettes can be fitted from the front or back
- Innovative integrated fibre management system on the front
- Labelling option on the front
- Cable holder for simple handling (easy to open and close the holder)
- Optional cable management extension for the back
- 6 fixtures for 4 cables per side
- Up to 144 fibres with LC connectors, 10 GB on 1 RU with DC300 003 (see below)
- Up to 864 fibres with MTP® connectors, 40/100 GB on 1 RU with DC300 004 (see below)
- RAL 9005 (jet black)

Item	Item no.	Fig.
Cassette carrier F-HD 1 RU for 12 insertion cassettes	DC300 001/12	
Cassette carrier F-HD 2 RU for 24 insertion cassettes	DC300 001/24	1



1



Sample application with cable management extension (1+2)

CobiNet insertion cassettes F-HD

- Suitable for cassette carrier F-HD
- Ultra-flat insertion cassettes can be fitted from the front or back
- Suitable for 10, 40 and 100 GB
- Configuration based on MTP® polarity, method A 1:1
- LC couplings with internal closure (shutter)



2

Item	Front	Back	Item no.	Fig.
Insertion cassette F-HD 1x MTP®-m	3x LC Quad 12G50/125µm OM4, multi-mode	1x MTP®-m 12G50/125µm OM4, multi-mode 10 GB	DC300 003	2
Insertion cassette F-HD 2x MTP®-m	3 x MTP®-m 8G50/125µm OM4, multi-mode	2 x MTP®-m 12G50/125µm OM4, multi-mode 40, 100 GB	DC300 004	

CobiNet trunk cable F-HD 12xMTP®-f/12xMTP®-f

- 12x 12G50/125 µm OM4, suitable for the HY-HD and F-HD system
- Assembled on both sides with MTP®-f / MTP®-f
- Suitable for 40G and 100G
- Connection via push-pull locking mechanism
- Improved guide pins compared to MPO systems
- Cable diameter 4.5 mm
- Halogen-free and hardly inflammable
- Flame-retardant to IEC 60332-1-2 and IEC 60332-3-22 Cat. A
- Temperature range: - 10°C to + 70°C
- Configuration based on MTP® polarity, method A 1:1



1

Item	Item no.	Fig.
Length: 1.0 m	DC500 001/1.0	1
Length: 10.0 m	DC500 001/10.0	
Length: 20.0 m	DC500 001/20.0	
Length: 30.0 m	DC500 001/30.0	



Additional lengths and types on request



Connector design
MTP®-f = MTP® female
MTP®-m = MTP® male

CobiNet patch and connecting cable F-HD MTP®-f/MTP®-f

- 12G50/125 µm OM4
- Push-pull locking mechanism
- Highly flexible connection options
- Configuration based on MTP® polarity, method A 1:1



2

Item	Item no.	Fig.
Length: 1.0 m	DC400 001/1.0	2
Length: 10.0 m	DC400 001/10.0	
Length: 20.0 m	DC400 001/20.0	
Length: 30.0 m	DC400 001/30.0	



Additional lengths on request

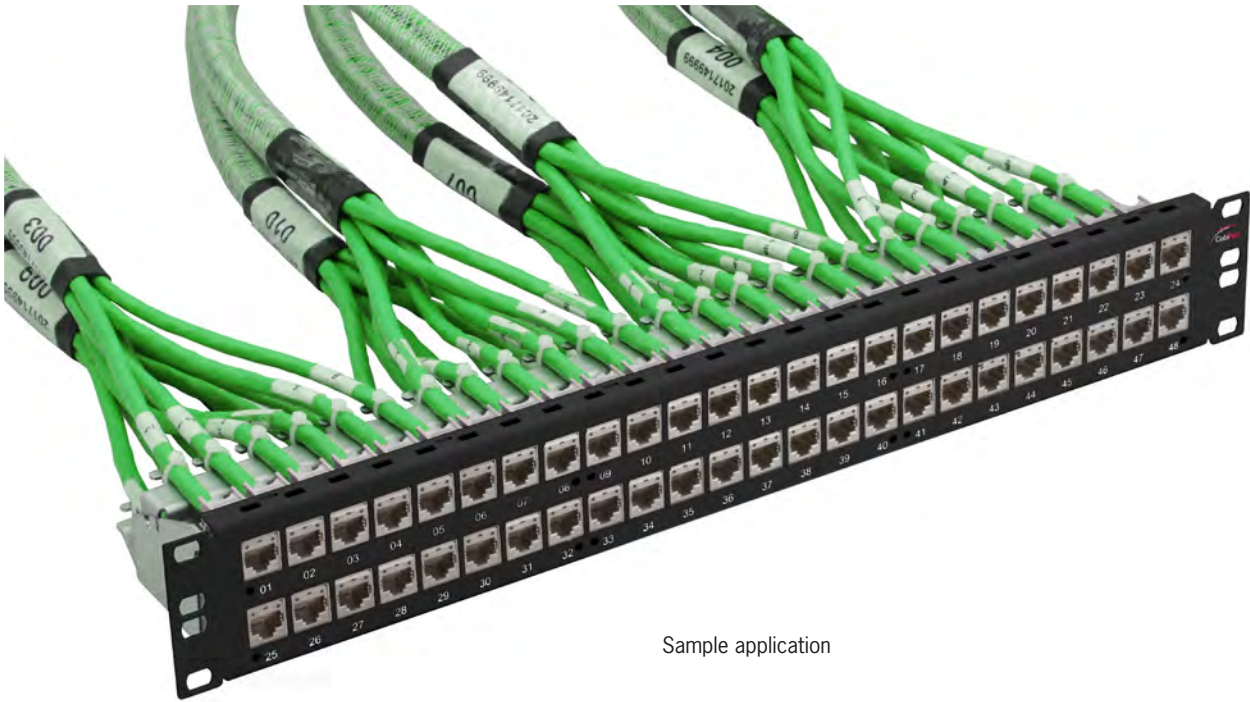
Computer centre

CobiNet KS-HD system

CobiNet patch panel KS-HD 19" 48x

- 1.5 RU, 19" (482.6 mm) for the insertion of max. 48 RJ45 jacks or other modules in Keystone format
- Carrier unit: Steel plate, galvanised
- Front panel: Steel plate, powder-coated
- Module fields printed with the numbers 1 to 48
- Optional attachment of snap-on labelling strips without impairing the visibility of the printed numbers
- Cable strain relief via enclosed cable ties
- Modules are earthed automatically when snapped into place; potential equalisation connection via enclosed earthing set on earthing bolts M6
- Attachment dimensions: 465 mm
- Dimensions (W x H x D): 482.6 x 66.6 x 76 mm
- RAL 9005 (jet black)

Item	Item no.	Fig.
Patch panel KS-HD	6921 9128.1	1
RJ45 modules' contacts at the top		



Sample application

Trunk cable KS-HD

CobiNet produces copper trunk cables KS-HD in any length up to 80 metres, with customised break-out lengths.

The cable structure of the copper trunk cables KS-HD is designed for state-of-the-art computer centres, meaning that the copper trunk

cables are particularly compact and are made especially for extremely high packaging densities. The copper trunk cables KS-HD are available as 6-way and 8-way versions.

The 6-way version may be pre-assembled with six RJ45 jacks on each side, for example.



CobiNet trunk cable KS-HD

- Pre-assembled at the factory with RJ45 jacks on each side (Cat. 6_A as per ISO/IEC 60603-7-51)
- Cat. 7 compact cable 8x 4-pair, AWG 22 or 23
- Link performance Class E_A as per ISO/IEC 11801 AMD2
- ISO/IEC 11801 AMD2:2010-04 10 GB-compatible up to 80 metres
- Number of links per trunk: 6x RJ45 or 8x RJ45
- In PET (polyethylene terephthalate) multi-filament braided hose
- Incl. measurement report

i Additional lengths on request



1

Number of links	Cable type	Application	Item no.	Fig.
6-way trunk cable (multi-way cable)	1000 S/FTP Cat. 7 SX AWG 23	10 GB	8406 1052/XX	1
6-way trunk cable (multi-way cable)	1150 S/FTP Cat. 7A SX AWG 23	10 GB	8406 1152/XX	
6-way trunk cable (multi-way cable)	1200 S/FTP Cat. 7A SX AWG 22	10 GB	8406 1252/XX	
6-way trunk cable (multi-way cable)	1500 S/FTP Cat. 7A SX AWG 22	10 GB	8406 1552/XX	

Number of links	Cable type	Application	Item no.	Fig.
8-way trunk cable (multi-way cable)	1000 S/FTP Cat. 7 SX AWG 23	10 GB	8408 1052/XX	
8-way trunk cable (multi-way cable)	1150 S/FTP Cat. 7A SX AWG 23	10 GB	8408 1152/XX	
8-way trunk cable (multi-way cable)	1200 S/FTP Cat. 7A SX AWG 22	10 GB	8408 1252/XX	
8-way trunk cable (multi-way cable)	1500 S/FTP Cat. 7A SX AWG 22	10 GB	8408 1552/XX	

**i When ordering, enter length instead of XX.
(Example: 8406 1052/25.0 = 25 metres)**

Notes

Make plans with us!

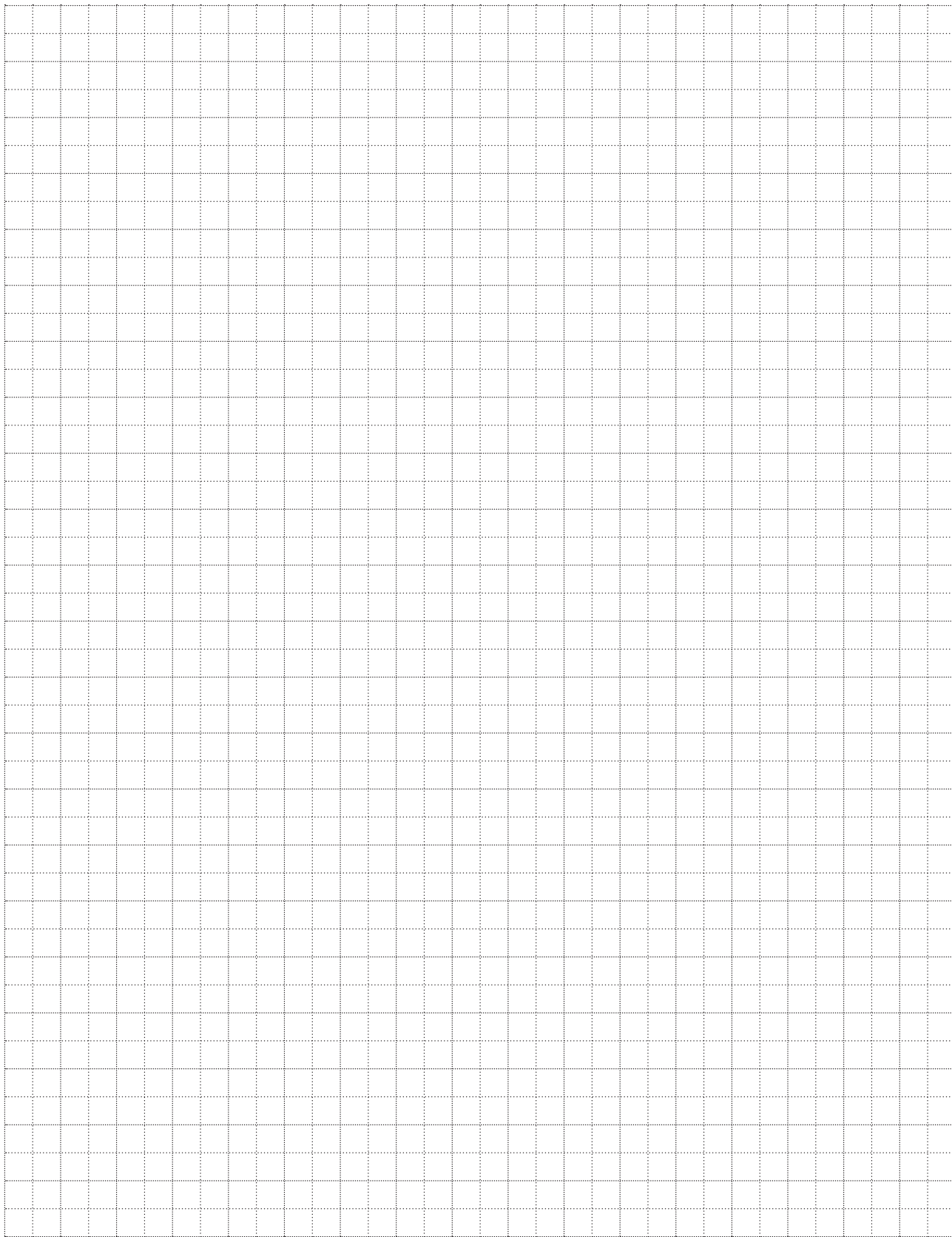


Table of contents – fibre-optic technology

CobiNet

Fibre-optic technology

	Page
Construction Products Regulation	68
Fibre-optic installation cable A/I-DQ(ZN)BH	70
Fibre-optic installation cable A-DQ(ZN)B2Y	74
Fibre-optic installation cable A-DQ(ZN)(SR)2Y	78
Pre-assembled universal cables with cable divider (trunk cables)	80
Pre-assembled outdoor cables with cable divider (trunk cables)	84
Pre-assembled indoor cables (break-out cables)	88
ALU splice boxes/distributor housings, fixed installation	92
ALU splice boxes, fixed installation (ready to splice)	94
ALU distributor housings, fixed installation (for trunk cables)	102
Extendible and tilting splice box/distributor housing	104
Extendible and tilting splice box (ready to splice)	106
Extendible and tilting distributor housing (for trunk cables)	114
Splice boxes and distributor housings OD 12/OD 24	116
Fibre-optic distributor accessories	124
Steel plate wall-mounted distribution housings/splice boxes	126
Plastic wall-mounted distribution housings/splice boxes	127
Fibre-optic plastic distributor boxes	128
Fibre-optic outlets	129
Steel plate wall-mounted distribution housings/splice boxes WVF	131
DIN rail splice boxes	132
Adapters/couplings	134
Fibre-optic fibre pigtails	137
Fibre-optic patch cables	140
Fibre-optic launch fibres	143
Fibre-optic cleaning	144
Fibre-optic tools	146

Fibre-optic technology

Construction Products Regulation

The European Construction Products Regulation and its impact on fire-resistant cables

The European Union (EU) has recognised the significance of cables with regard to their reaction to fire, and has re-organised the different national regulations of its member states into a standardised evaluation system. The mandatory Construction Products Regulation (Regulation (EU) no. 305/2011) came into force for all member states on 01.07.2013.

As of 01.07.2016, cables could be given a CE mark and a declaration of performance. This marking and declaration of performance have been mandatory since 01.07.2017.

CobiNet has been developing and selling cables and lines without PVC or halogen for many years, with new CobiNet products focusing on environmental performance and safety.

In the event of a fire, these PVC and halogen-free cables give off only very small quantities of smoke (low smoke density), with no corrosive vapours or toxic gases. This creates

longer escape and rescue times in the event of a fire, and increases safety for both humans and machines.

Before CobiNet assigns a particular fire class to a fire-resistant cable, the cable types must firstly go through a range of complex testing procedures.

The previously familiar procedure for fire-resistant cables and fire-resistant lines that are subject to the Low Voltage Directive stipulates that the fire behaviour of cables and lines be assessed almost exclusively in accordance with DIN VDE.

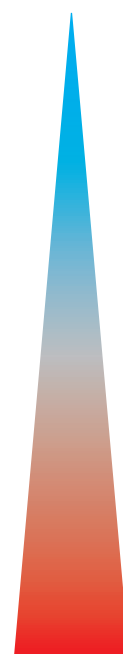
For the fire-resistant cables to which the Construction Products Regulation applies, this is no longer sufficient.

As of 01.07.2017, our cables all feature the CE mark and associated performance class in accordance with the Construction Products Regulation.

Euroclasses for cables as per DIN EN 13501-6:2014-7

Class	Testing procedure	Classification criteria	Additional classification
A _{ca}	EN ISO 1716	PCS ≤ 2.0 MJ/kg	
B1 _{ca}	EN 50399 (30 kW burner) THR _{1200s} ≤ 10 MJ and FIGRA ≤ 120 Ws ⁻¹	FS ≤ 1.75 m and flaming droplets/particles Peak HRR ≤ 20 kW	Smoke development and acidity
	EN 60332-1-2	H ≤ 425 mm	
B2 _{ca}	EN 50399 (20.5 kW burner) THR _{1200s} ≤ 15 MJ and FIGRA ≤ 150 Ws ⁻¹	FS ≤ 1.5 m and flaming droplets/particles Peak HRR ≤ 30 kW	Smoke development and acidity
	EN 60332-1-2	H ≤ 425 mm	
C _{ca}	EN 50399 (20.5 kW burner) THR _{1200s} ≤ 30 MJ and FIGRA ≤ 300 Ws ⁻¹	FS ≤ 2.0 m and flaming droplets/particles Peak HRR ≤ 60 kW	Smoke development and acidity
	EN 60332-1-2	H ≤ 425 mm	
D _{ca}	EN 50399 (20.5 kW burner) Peak HRR ≤ 400 kW	THR _{1200s} ≤ 70 MJ; and flaming droplets/particles FIGRA ≤ 1300 Ws ⁻¹	
	EN 60332-1-2	H ≤ 425 mm	
E _{ca}	EN 60332-1-2	H ≤ 425 mm	
F _{ca}	Does not meet Euroclass E _{ca}		

Non-combustible



Easily inflammable

Scope of application of the Construction Products Regulation

According to this regulation, "construction products" are all cables that are permanently installed inside a building. These may be, for example, cables and lines that can be installed as flush-mounted cables, in cable channels, on cable trays or in ducts. Connections between the end device and the permanent building cabling are explicitly excluded from the Construction Products Regulation.

An example of these are classic device connection lines that connect machines or lights to the power supply or data network. CobiNet patch cables therefore do not fall within the scope of the Construction Products Regulation, as they are not intended for permanent installation.

Declaration of performance

The classification table of the Construction Products Regulation features six classes from A to F. These are allocated based on the criteria of heat release and flame spread. There are three additional classes for additional requirements such as smoke development (s), corrosivity (a) and flaming drop-lets (d).

There is a declaration of performance for every CobiNet installation cable, which contains information including the Euroclass (see table on page 68) for assessing the fire protection for buildings.

Certification

Certification is performed by accredited testing institutes that are independent from the manufacturer. The inspector's involvement in the certificate of conformity varies depending on the Euroclass of the products (see table below).

System for the certificate of conformity as per DIN EN 50575:2015-4; VDE 0482-575:2015-4

Euroclasses Reaction to fire	System for the certificate of conformity	Responsibilities of the notified body
A _{ca} , B1 _{ca} , B2 _{ca} , C _{ca}	1+	Type sample testing Regular factory auditing Regular sampling from ongoing production
D _{ca} , E _{ca}	3	Type sample testing
F _{ca}	4	None

Clear labelling

With the CPR symbols used by CobiNet in this catalogue, you can see the Euroclass of the respective cables at all times.

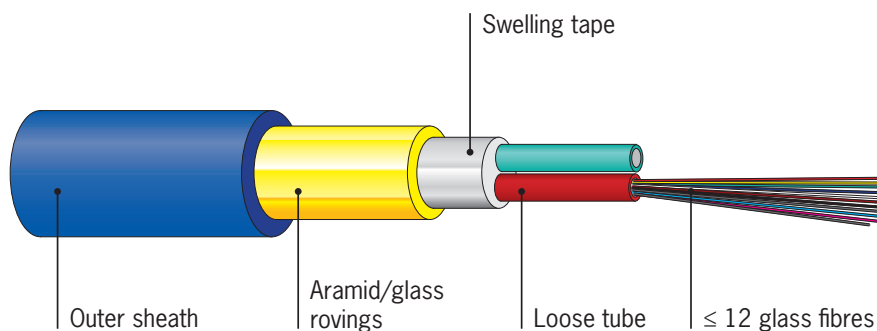


Fibre-optic technology

Fibre-optic installation cables A/I-DQ(ZN)BH

Universal cable A/I-DQ(ZN)BH

Universal cable with stranded loose tubes A/I-DQ(ZN)BH

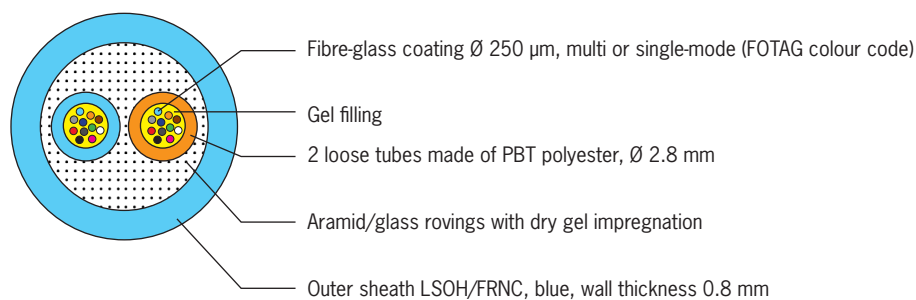


Application

- For installation
 - In dry pipes in outdoor areas
 - On or in covered cable racks or channels in protected outdoor areas
 - In indoor areas with increased mechanical requirements
- Halogen-free universal sheathing for house connections without any additional transfer points (splices)
- Suitable for structured cabling as per ISO/IEC 11801 and EN 50173
- Suitable for campus (LAN) and backbone networks according to the fibre type
- Central/stranded loose tubes: For splice connections and distribution point pre-assembly

Structure

- Halogen-free, flame-retardant compound
- Glass roving strain relief
- Non-metallic rodent protection
- **Stranded loose tubes**
 - Typically from 2x12 fibres
 - With dummy elements around the central support element as appropriate
- Loose tube colour: Meter wire red, counting direction wire white; other wire colours depending on fibre type: yellow (E9/125), green (G50/125)



CobiNet fibre-optic universal cable, stranded loose tube

- Central loose tube, with swelling material and non-metallic rodent protection
- LSHF



Item number	Type description	Number of fibres	Fibre quality	Fibre type	Tensile load (N)	Euroclass fire protection
F353B0000	A/I-DQ(ZN)BH	2x12	OS2	E9/125	1500	D _{ca} s2,d2,a2
F953B0000	A/I-DQ(ZN)BH	2x12	OS2	E9/125	3000	D _{ca} s2,d2,a2
F353D0000	A/I-DQ(ZN)BH	2x12	OM2	G50/125	1500	D _{ca} s2,d2,a2
F953D0000	A/I-DQ(ZN)BH	2x12	OM2	G50/125	3000	D _{ca} s2,d2,a2
F353E0000	A/I-DQ(ZN)BH	2x12	OM3	G50/125	1500	D _{ca} s2,d2,a2
F953E0000	A/I-DQ(ZN)BH	2x12	OM3	G50/125	3000	D _{ca} s2,d2,a2
F353F0000	A/I-DQ(ZN)BH	2x12	OM4	G50/125	1500	D _{ca} s2,d2,a2
F953F0000	A/I-DQ(ZN)BH	2x12	OM4	G50/125	3000	D _{ca} s2,d2,a2

Additional designs on request



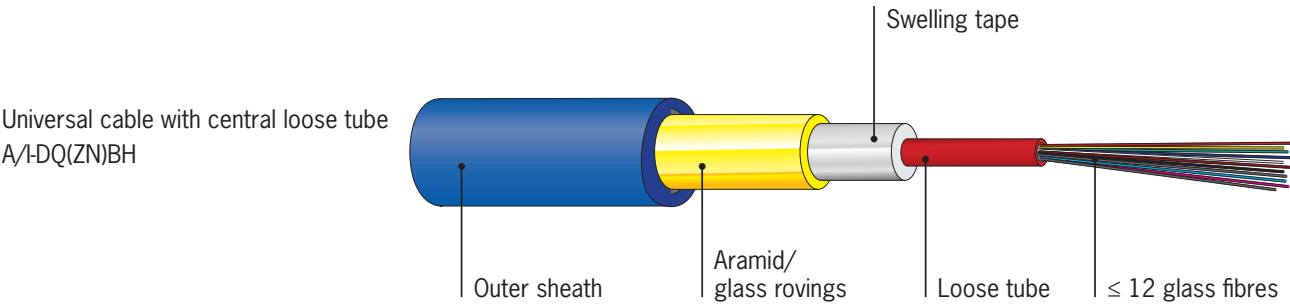
Item number	Type description	Number of fibres	Fibre quality	Fibre type	Tensile load (N)	Euroclass fire protection
F573B0000	A/I-DQ(ZN)BH	4x12	OS2	E9/125	1500	E _{ca}
F973B0000	A/I-DQ(ZN)BH	4x12	OS2	E9/125	3000	E _{ca}
F573D0000	A/I-DQ(ZN)BH	4x12	OM2	G50/125	1500	E _{ca}
F973D0000	A/I-DQ(ZN)BH	4x12	OM2	G50/125	3000	E _{ca}
F573E0000	A/I-DQ(ZN)BH	4x12	OM3	G50/125	1500	E _{ca}
F973E0000	A/I-DQ(ZN)BH	4x12	OM3	G50/125	3000	E _{ca}
F573F0000	A/I-DQ(ZN)BH	4x12	OM4	G50/125	1500	E _{ca}

Additional designs on request

Fibre-optic technology

Fibre-optic installation cables A/I-DQ(ZN)BH

Universal cable A/I-DQ(ZN)BH

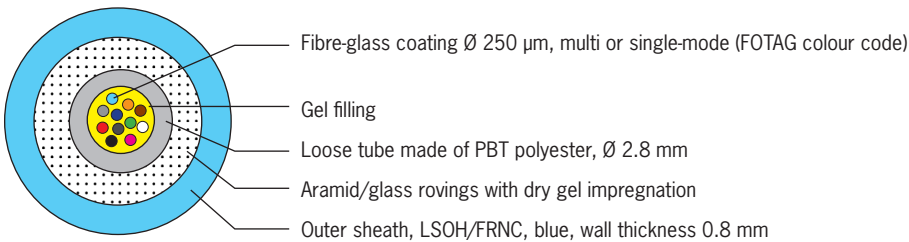


Application

- For installation
 - In dry pipes in outdoor areas
 - On or in covered cable racks or channels in protected outdoor areas
 - In indoor areas with increased mechanical requirements
- Halogen-free universal sheathing for house connections without any additional transfer points (splices)
- Suitable for structured cabling as per ISO/IEC 11801 and EN 50173
- Suitable for campus (LAN) and backbone networks according to the fibre type
- For splice connections and distribution point pre-assembly

Structure

- Halogen-free, flame-retardant compound
- Glass roving strain relief
- Non-metallic rodent protection
- Central loose tube**
 - Typically 1xn fibres



CobiNet fibre-optic universal cable, central loose tube

- Central loose tube, with swelling material and non-metallic rodent protection
- LSHF



Item number	Type description	Number of fibres	Fibre quality	Fibre type	Tensile load (N)	Euroclass fire protection
F303B0000	A/I-DQ(ZN)BH	1x4	OS2	E9/125	1500	D _{ca} s2,d2,a2
F703B0000	A/I-DQ(ZN)BH	1x4	OS2	E9/125	3000	D _{ca} s2,d2,a2
F303D0000	A/I-DQ(ZN)BH	1x4	OM2	G50/125	1500	D _{ca} s2,d2,a2
F703D0000	A/I-DQ(ZN)BH	1x4	OM2	G50/125	3000	D _{ca} s2,d2,a2
F303E0000	A/I-DQ(ZN)BH	1x4	OM3	G50/125	1500	D _{ca} s2,d2,a2
F703E0000	A/I-DQ(ZN)BH	1x4	OM3	G50/125	3000	D _{ca} s2,d2,a2
F303F0000	A/I-DQ(ZN)BH	1x4	OM4	G50/125	1500	D _{ca} s2,d2,a2
F703F0000	A/I-DQ(ZN)BH	1x4	OM4	G50/125	3000	D _{ca} s2,d2,a2

Additional designs on request



Item number	Type description	Number of fibres	Fibre quality	Fibre type	Tensile load (N)	Euroclass fire protection
F323B0000	A/I-DQ(ZN)BH	1x8	OS2	E9/125	1500	D _{ca} s2,d2,a2
F723B0000	A/I-DQ(ZN)BH	1x8	OS2	E9/125	3000	D _{ca} s2,d2,a2
F323D0000	A/I-DQ(ZN)BH	1x8	OM2	G50/125	1500	D _{ca} s2,d2,a2
F723D0000	A/I-DQ(ZN)BH	1x8	OM2	G50/125	3000	D _{ca} s2,d2,a2
F323E0000	A/I-DQ(ZN)BH	1x8	OM3	G50/125	1500	D _{ca} s2,d2,a2
F723E0000	A/I-DQ(ZN)BH	1x8	OM3	G50/125	3000	D _{ca} s2,d2,a2
F323F0000	A/I-DQ(ZN)BH	1x8	OM4	G50/125	1500	D _{ca} s2,d2,a2
F723F0000	A/I-DQ(ZN)BH	1x8	OM4	G50/125	3000	D _{ca} s2,d2,a2

Additional designs on request

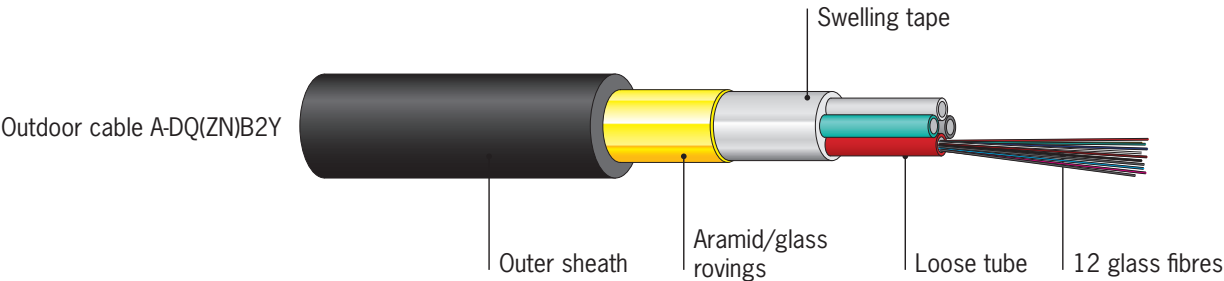


Item number	Type description	Number of fibres	Fibre quality	Fibre type	Tensile load (N)	Euroclass fire protection
F333B0000	A/I-DQ(ZN)BH	1x12	OS2	E9/125	1500	D _{ca} s2,d2,a2
F733B0000	A/I-DQ(ZN)BH	1x12	OS2	E9/125	3000	D _{ca} s2,d2,a2
F333D0000	A/I-DQ(ZN)BH	1x12	OM2	G50/125	1500	D _{ca} s2,d2,a2
F733D0000	A/I-DQ(ZN)BH	1x12	OM2	G50/125	3000	D _{ca} s2,d2,a2
F333E0000	A/I-DQ(ZN)BH	1x12	OM3	G50/125	1500	D _{ca} s2,d2,a2
F733E0000	A/I-DQ(ZN)BH	1x12	OM3	G50/125	3000	D _{ca} s2,d2,a2
F333F0000	A/I-DQ(ZN)BH	1x12	OM4	G50/125	1500	D _{ca} s2,d2,a2
F733F0000	A/I-DQ(ZN)BH	1x12	OM4	G50/125	3000	D _{ca} s2,d2,a2

Fibre-optic technology

Fibre-optic installation cables A-DQ(ZN)B2Y

Outdoor cable A-DQ(ZN)B2Y

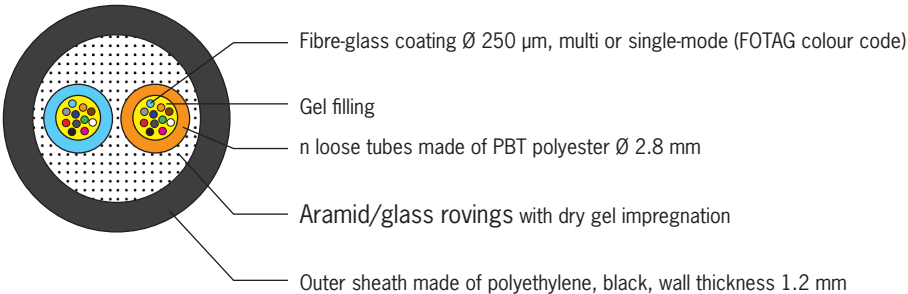


Application

- For installation
 - Directly in the ground
 - In dry pipes in outdoor areas
 - On cable racks in outdoor areas
 - In cable channels in outdoor areas
- Suitable for structured cabling as per ISO/IEC 11801 and EN 50173
- Suitable for city (MAN), campus (LAN) and backbone networks according to the fibre type
- For splice connections and distribution point pre-assembly

Structure

- Cable sheath: PE, UV-resistant
- Glass roving strain relief
- Non-metallic rodent protection
- **Stranded loose tubes**
 - Typically from 2x12 fibres
 - With dummy elements around the central support element as appropriate
- Loose tube colour: Meter wire red, counting direction wire white; other wire colours depending on fibre type: yellow (E9/125), green (G50/125)



CobiNet fibre-optic outdoor cable, central loose tube

- With swelling material
- Non-metallic rodent protection
- Sheath material: PE

Item number	Type description	Number of fibres	Fibre quality	Fibre type	Tensile load (N)
F058B0000	A-DQ(ZN)B2Y	2x12	OS2	E9/125	1500
F858B0000	A-DQ(ZN)B2Y	2x12	OS2	E9/125	3000
F058D0000	A-DQ(ZN)B2Y	2x12	OM2	G50/125	1500
F858D0000	A-DQ(ZN)B2Y	2x12	OM2	G50/125	3000
F058E0000	A-DQ(ZN)B2Y	2x12	OM3	G50/125	1500
F858E0000	A-DQ(ZN)B2Y	2x12	OM3	G50/125	3000
F058F0000	A-DQ(ZN)B2Y	2x12	OM4	G50/125	1500
F858F0000	A-DQ(ZN)B2Y	2x12	OM4	G50/125	3000

 Additional designs on request

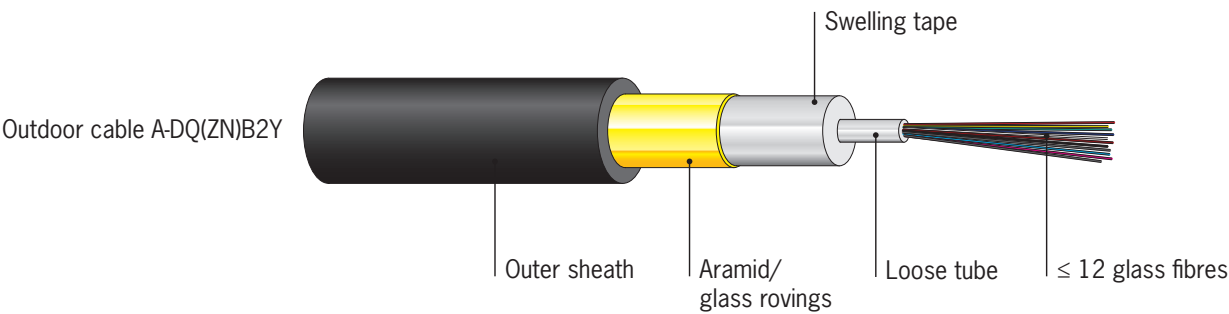
Item number	Type description	Number of fibres	Fibre quality	Fibre type	Tensile load (N)
F478B0000	A-DQ(ZN)B2Y	4x12	OS2	E9/125	1500
F078B0000	A-DQ(ZN)B2Y	4x12	OS2	E9/125	3000
F478D0000	A-DQ(ZN)B2Y	4x12	OM2	G50/125	1500
F078D0000	A-DQ(ZN)B2Y	4x12	OM2	G50/125	3000
F478E0000	A-DQ(ZN)B2Y	4x12	OM3	G50/125	1500
F078E0000	A-DQ(ZN)B2Y	4x12	OM3	G50/125	3000
F478F0000	A-DQ(ZN)B2Y	4x12	OM4	G50/125	1500
F078F0000	A-DQ(ZN)B2Y	4x12	OM4	G50/125	3000

 Additional designs on request

Fibre-optic technology

Fibre-optic installation cables A-DQ(ZN)B2Y

Outdoor cable A-DQ(ZN)B2Y

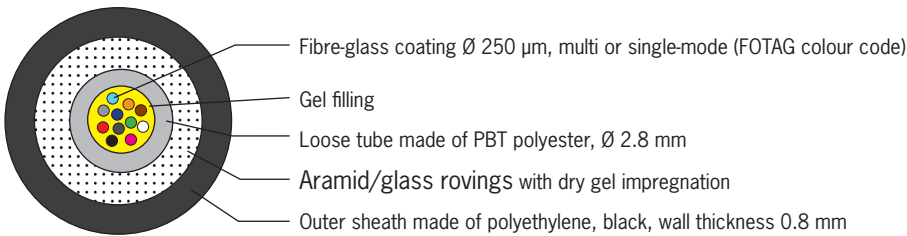


Application

- For installation
 - Directly in the ground
 - In dry pipes in outdoor areas
 - On cable racks in outdoor areas
 - In cable channels in outdoor areas
- Suitable for structured cabling as per ISO/IEC 11801 and EN 50173
- Suitable for city (MAN), campus (LAN) and backbone networks according to the fibre type
- For splice connections and distribution point pre-assembly

Structure

- Cable sheath: PE, UV-resistant
- Glass roving strain relief
- Non-metallic rodent protection
- **Central loose tube**
 - Typically 1xn fibres



CobiNet fibre-optic outdoor cable, central loose tube

- Central loose tube, with swelling material and non-metallic rodent protection
- PE

Item number	Type description	Number of fibres	Fibre quality	Fibre type	Tensile load (N)
F008B0000	A-DQ(ZN)B2Y	1x4	OS2	E9/125	1500
F808B0000	A-DQ(ZN)B2Y	1x4	OS2	E9/125	3000
F008D0000	A-DQ(ZN)B2Y	1x4	OM2	G50/125	1500
F808D0000	A-DQ(ZN)B2Y	1x4	OM2	G50/125	3000
F008E0000	A-DQ(ZN)B2Y	1x4	OM3	G50/125	1500
F808E0000	A-DQ(ZN)B2Y	1x4	OM3	G50/125	3000
F008F0000	A-DQ(ZN)B2Y	1x4	OM4	G50/125	1500
F808F0000	A-DQ(ZN)B2Y	1x4	OM4	G50/125	3000

 Additional designs on request

Item number	Type description	Number of fibres	Fibre quality	Fibre type	Tensile load (N)
F028B0000	A-DQ(ZN)B2Y	1x8	OS2	E9/125	1500
F828B0000	A-DQ(ZN)B2Y	1x8	OS2	E9/125	3000
F028D0000	A-DQ(ZN)B2Y	1x8	OM2	G50/125	1500
F828D0000	A-DQ(ZN)B2Y	1x8	OM2	G50/125	3000
F028E0000	A-DQ(ZN)B2Y	1x8	OM3	G50/125	1500
F228E0000	A-DQ(ZN)B2Y	1x8	OM3	G50/125	3000
F028F0000	A-DQ(ZN)B2Y	1x8	OM4	G50/125	1500
F828F0000	A-DQ(ZN)B2Y	1x8	OM4	G50/125	3000

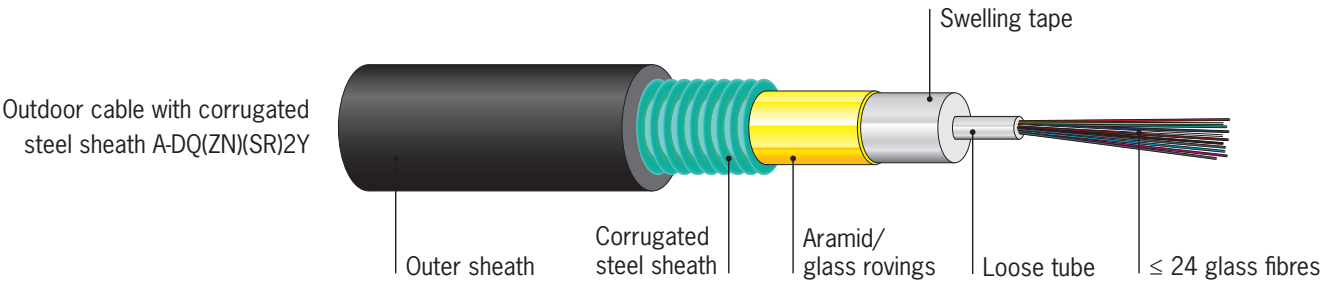
 Additional designs on request

Item number	Type description	Number of fibres	Fibre quality	Fibre type	Tensile load (N)
F038B0000	A-DQ(ZN)B2Y	1x12	OS2	E9/125	1500
F838B0000	A-DQ(ZN)B2Y	1x12	OS2	E9/125	3000
F038D0000	A-DQ(ZN)B2Y	1x12	OM2	G50/125	1500
F838D0000	A-DQ(ZN)B2Y	1x12	OM2	G50/125	3000
F038E0000	A-DQ(ZN)B2Y	1x12	OM3	G50/125	1500
F838E0000	A-DQ(ZN)B2Y	1x12	OM3	G50/125	3000
F038F0000	A-DQ(ZN)B2Y	1x12	OM4	G50/125	1500
F838F0000	A-DQ(ZN)B2Y	1x12	OM4	G50/125	3000

Fibre-optic technology

Fibre-optic installation cables A-DQ(ZN)(SR)2Y

Outdoor cable A-DQ(ZN)(SR)2Y

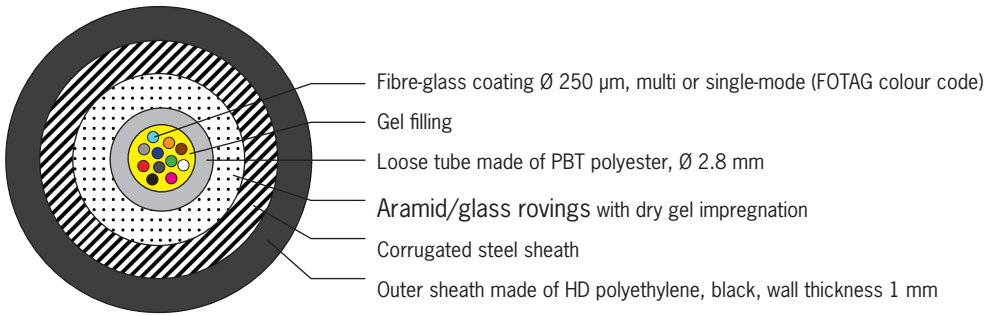


Application

- Increased safety thanks to metallic rodent protection via corrugated steel sheath
- For installation
 - Directly in the ground
 - In dry pipes in outdoor areas
 - On cable racks in outdoor areas
 - In cable channels in outdoor areas
- Suitable for structured cabling as per ISO/IEC 11801 and EN 50173
- Suitable for city (MAN), campus (LAN) and backbone networks according to the fibre type
- For splice connections and distribution point pre-assembly

Structure

- Cable sheath: PE, UV-resistant
- Strain relief: Glass rovings, non-metallic
- Metallic rodent protection via corrugated steel sheath**
- Central loose tube**
 - Typically 1xn fibres



CobiNet fibre-optic outdoor cable, central loose tube, metallic rodent protection and corrugated steel sheath

- With swelling material
- Metallic rodent protection
- Sheath material: PE

Item number	Type description	Number of fibres	Fibre quality	Fibre type	Tensile load (N)
F108B0000	A-DQ(ZN)(SR)2Y	1x4	OS2	E9/125	1200
F108D0000	A-DQ(ZN)(SR)2Y	1x4	OM2	G50/125	1200
F108E0000	A-DQ(ZN)(SR)2Y	1x4	OM3	G50/125	1200
F108F0000	A-DQ(ZN)(SR)2Y	1x4	OM4	G50/125	1200

 Additional designs on request

Item number	Type description	Number of fibres	Fibre quality	Fibre type	Tensile load (N)
F118B0000	A-DQ(ZN)(SR)2Y	1x8	OS2	E9/125	1200
F118D0000	A-DQ(ZN)(SR)2Y	1x8	OM2	G50/125	1200
F118E0000	A-DQ(ZN)(SR)2Y	1x8	OM3	G50/125	1200
F118F0000	A-DQ(ZN)(SR)2Y	1x8	OM4	G50/125	1200

 Additional designs on request

Item number	Type description	Number of fibres	Fibre quality	Fibre type	Tensile load (N)
F128B0000	A-DQ(ZN)(SR)2Y	1x12	OS2	E9/125	1200
F128D0000	A-DQ(ZN)(SR)2Y	1x12	OM2	G50/125	1200
F128E0000	A-DQ(ZN)(SR)2Y	1x12	OM3	G50/125	1200
F128F0000	A-DQ(ZN)(SR)2Y	1x12	OM4	G50/125	1200

 Additional designs on request

Item number	Type description	Number of fibres	Fibre quality	Fibre type	Tensile load (N)
F138B0000	A-DQ(ZN)(SR)2Y	1x24	OS2	E9/125	1200
F138D0000	A-DQ(ZN)(SR)2Y	1x24	OM2	G50/125	1200
F138E0000	A-DQ(ZN)(SR)2Y	1x24	OM3	G50/125	1200
F138F0000	A-DQ(ZN)(SR)2Y	1x24	OM4	G50/125	1200

Fibre-optic technology

Pre-assembled universal cables with cable divider (trunk cables)



Application

- For connecting stories or distribution centres
- No splicing work is necessary at the place of installation
- For installation
 - In dry pipes in outdoor areas
 - On covered cable racks in protected outdoor areas
 - In covered cable channels in protected outdoor areas
 - In indoor areas with increased mechanical requirements
- Suitable for structured cabling as per ISO/IEC 11801 and EN 50173
- Measurement reports included with delivery

Structure

- Plastic cable divider
- Central loose tube
- Sheath material: LSHF (Low Smoke Halogen Free)
- Sheath colour: Blue
- Includes insertion aids on sides A + B
- Graduated plug (individual fibres have different lengths downstream of the cross-connection cabinet)
- Break-out length (length of the individual fibres downstream of the cross-connection cabinet)
 - Shortest: 42 cm
 - Longest: From 52.5 cm to 80.5 cm
- Thread divider: M20
- Corrugated tube diameter: 22 mm
- Max. traction force
 - On the divider: 800 N
 - On the traction element: 300 N
 - On the pure cable: 1500 N
- Max. transverse pressure on the cable: 150 N/cm
- Smallest short-term bend radius: 600 mm



Pre-assembled universal cables with cable divider (trunk cables)

CobiNet fibre-optic universal cable (trunk cable)

LC - LC

Cable type: A/I-DQ(ZN)BH, central loose tube

- With swelling material
- Non-metallic rodent protection
- Sheath material: LSHF-FR
- Break-out length: See left
- Insertion aid: On sides A + B



Item number	Number of fibres	Fibre quality	Fibre type
F303B9292/XX	4	OS2	E9/125
F323B9292/XX	8	OS2	E9/125
F333B9292/XX	12	OS2	E9/125
F363B9292/XX	24	OS2	E9/125
F303D9292/XX	4	OM2	G50/125
F323D9292/XX	8	OM2	G50/125
F333D9292/XX	12	OM2	G50/125
F363D9292/XX	24	OM2	G50/125
F303E9292/XX	4	OM3	G50/125
F323E9292/XX	8	OM3	G50/125
F333E9292/XX	12	OM3	G50/125
F363E9292/XX	24	OM3	G50/125
F303F9292/XX	4	OM4	G50/125
F323F9292/XX	8	OM4	G50/125
F333F9292/XX	12	OM4	G50/125
F363F9292/XX	24	OM4	G50/125

CobiNet fibre-optic universal cable (trunk cable)

SC - SC

Cable type: A/I-DQ(ZN)BH, central loose tube

- With swelling material
- Non-metallic rodent protection
- Sheath material: LSHF-FR
- Break-out length: See left
- Insertion aid: On sides A + B



Item number	Number of fibres	Fibre quality	Fibre type
F303B2222/XX	4	OS2	E9/125
F323B2222/XX	8	OS2	E9/125
F333B2222/XX	12	OS2	E9/125
F363B2222/XX	24	OS2	E9/125
F303B9292/XX	4	OM2	G50/125
F323B9292/XX	8	OM2	G50/125
F333B9292/XX	12	OM2	G50/125
F363B9292/XX	24	OM2	G50/125
F303E2222/XX	4	OM3	G50/125
F323E2222/XX	8	OM3	G50/125
F333E2222/XX	12	OM3	G50/125
F363E2222/XX	24	OM3	G50/125
F303F2222/XX	4	OM4	G50/125
F323F2222/XX	8	OM4	G50/125
F333F2222/XX	12	OM4	G50/125
F363F2222/XX	24	OM4	G50/125

i When ordering, enter length instead of XX.
(Example: F303B9292/25.0 = 25 metres)

Pre-assembled universal cables with cable divider (trunk cables)

CobiNet fibre-optic universal cable (trunk cable)

E2000® 8° - E2000® 8°

Cable type: A/I-DQ(ZN)BH, central loose tube

- With swelling material
- Non-metallic rodent protection
- Sheath material: LSHF-FR



Item number	Number of fibres	Fibre quality	Fibre type
F303B5151/XX	4	OS2	E9/125
F323B5151/XX	8	OS2	E9/125
F333B5151/XX	12	OS2	E9/125
F363B5151/XX	24	OS2	E9/125

CobiNet fibre-optic universal cable (trunk cable)

ST – ST

Cable type: A/I-DQ(ZN)BH, central loose tube

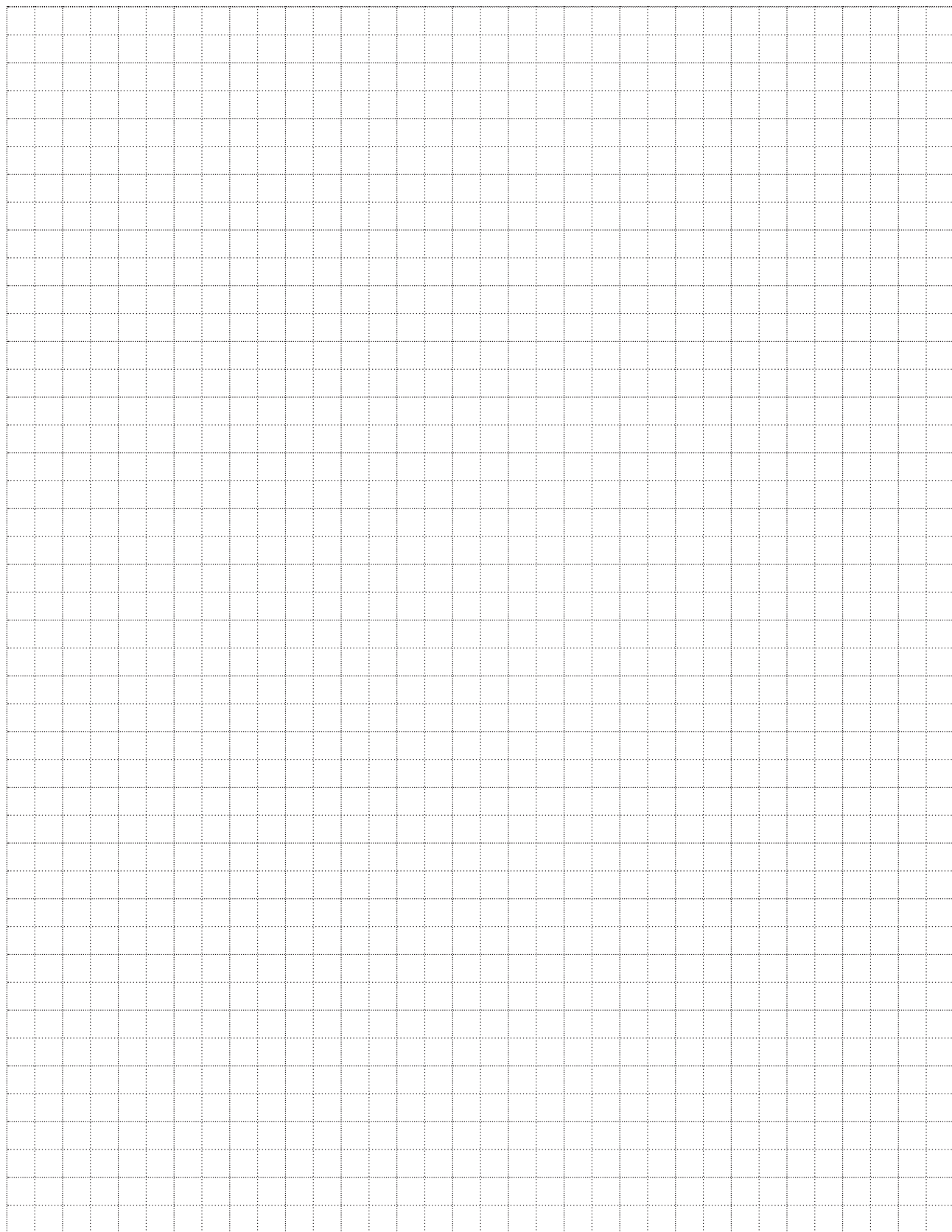
- With swelling material
- Non-metallic rodent protection
- Sheath material: LSHF-FR



Item number	Number of fibres	Fibre quality	Fibre type
F303B1212/XX	4	OS2	E9/125
F323B1212/XX	8	OS2	E9/125
F333B1212/XX	12	OS2	E9/125
F363B1212/XX	24	OS2	E9/125
F303D1212/XX	4	OM2	G50/125
F323D1212/XX	8	OM2	G50/125
F333D1212/XX	12	OM2	G50/125
F363D1212/XX	24	OM2	G50/125
F303E1212/XX	4	OM3	G50/125
F323E1212/XX	8	OM3	G50/125
F333E1212/XX	12	OM3	G50/125
F363E1212/XX	24	OM3	G50/125
F303F1212/XX	4	OM4	G50/125
F323F1212/XX	8	OM4	G50/125
F333F1212/XX	12	OM4	G50/125
F363F1212/XX	24	OM4	G50/125

i When ordering, enter length instead of XX.
(Example: F303B5151/25.0 = 25 metres)

Make plans with us!



Pre-assembled outdoor cables with cable divider (trunk cables)

Outdoor cable



Application

- For installation
 - Directly in the ground
 - In dry pipes in outdoor areas
 - On cable racks in outdoor areas
 - In cable channels in outdoor areas
- For distribution point pre-assembly; suitable for city (MAN), campus (LAN) and backbone networks according to the fibre type
- No splicing work is necessary at the place of installation
- Suitable for structured cabling as per ISO/IEC 11801 and EN 50173
- Measurement reports included with delivery

Structure

- Plastic cable divider
- Central loose tube
- Sheath material: PE (polyethylene)
- Sheath colour: Black
- Includes insertion aids on sides A + B
- Graduated plug (individual fibres have different lengths downstream of the cross-connection cabinet)
- Break-out length (length of the individual fibres downstream of the cross-connection cabinet)
 - Shortest: 42 cm
 - Longest: From 52.5 cm to 80.5 cm
- Thread divider: M20
- Corrugated tube diameter: 22 mm
- Max. traction force
 - On the divider: 800 N
 - On the traction element: 300 N
 - On the pure cable: 1500 N
- Max. transverse pressure on the cable: 150 N/cm
- Smallest short-term bend radius: 600 mm



CobiNet fibre-optic outdoor cable (trunk cable)

LC - LC

Cable type: A-DQ(ZN)B2Y, central loose tube

- With swelling material
- Non-metallic rodent protection
- Sheath material: PE



Item number	Number of fibres	Fibre quality	Fibre type
F008B9292/XX	4	OS2	E9/125
F028B9292/XX	8	OS2	E9/125
F038B9292/XX	12	OS2	E9/125
F068B9292/XX	24	OS2	E9/125
F008D9292/XX	4	OM2	G50/125
F028D9292/XX	8	OM2	G50/125
F038D9292/XX	12	OM2	G50/125
F068D9292/XX	24	OM2	G50/125
F008E9292/XX	4	OM3	G50/125
F028E9292/XX	8	OM3	G50/125
F038E9292/XX	12	OM3	G50/125
F068E9292/XX	24	OM3	G50/125
F008F9292/XX	4	OM4	G50/125
F028F9292/XX	8	OM4	G50/125
F038F9292/XX	12	OM4	G50/125
F068F9292/XX	24	OM4	G50/125

CobiNet fibre-optic outdoor cable (trunk cable)

SC – SC

Cable type: A-DQ(ZN)B2Y, central loose tube

- With swelling material
- Non-metallic rodent protection
- Sheath material: PE



Item number	Number of fibres	Fibre quality	Fibre type
F008B2222/XX	4	OS2	E9/125
F028B2222/XX	8	OS2	E9/125
F038B2222/XX	12	OS2	E9/125
F068B2222/XX	24	OS2	E9/125
F008D2222/XX	4	OM2	G50/125
F028D2222/XX	8	OM2	G50/125
F038D2222/XX	12	OM2	G50/125
F068D2222/XX	24	OM2	G50/125
F008E2222/XX	4	OM3	G50/125
F028E2222/XX	8	OM3	G50/125
F038E2222/XX	12	OM3	G50/125
F068E2222/XX	24	OM3	G50/125
F008F2222/XX	4	OM4	G50/125
F028F2222/XX	8	OM4	G50/125
F038F2222/XX	12	OM4	G50/125
F068F2222/XX	24	OM4	G50/125

i When ordering, enter length instead of XX.
(Example: F008B9292/25.0 = 25 metres)

Fibre-optic technology

Pre-assembled loose tube cables with cable divider (trunk cables)

CobiNet fibre-optic outdoor cable (trunk cable)

E2000® 8° - E2000® 8°

Cable type: A-DQ(ZN)B2Y, central loose tube

- With swelling material
- Non-metallic rodent protection
- Sheath material: PE



Item number	Number of fibres	Fibre quality	Fibre type
F008B5151/XX	4	OS2	E9/125
F028B5151/XX	8	OS2	E9/125
F038B5151/XX	12	OS2	E9/125
F068B5151/XX	24	OS2	E9/125

CobiNet fibre-optic outdoor cable (trunk cable)

ST – ST

Cable type: A-DQ(ZN)B2Y, central loose tube

- With swelling material
- Non-metallic rodent protection
- Sheath material: PE



Item number	Number of fibres	Fibre quality	Fibre type
F008B1212/XX	4	OS2	E9/125
F028B1212/XX	8	OS2	E9/125
F038B1212/XX	12	OS2	E9/125
F068B1212/XX	24	OS2	E9/125
F008D1212/XX	4	OM2	G50/125
F028D1212/XX	8	OM2	G50/125
F038D1212/XX	12	OM2	G50/125
F068D1212/XX	24	OM2	G50/125
F008E1212/XX	4	OM3	G50/125
F028E1212/XX	8	OM3	G50/125
F038E1212/XX	12	OM3	G50/125
F068E1212/XX	24	OM3	G50/125
F008F1212/XX	4	OM4	G50/125
F028F1212/XX	8	OM4	G50/125
F038F1212/XX	12	OM4	G50/125
F068F1212/XX	24	OM4	G50/125

i When ordering, enter length instead of XX.
(Example: F008B5151/25.0 = 25 metres)

Notes

Make plans with us!



Fibre-optic technology

Pre-assembled indoor cables (break-out cables)

Indoor cable



Application

- For installation
 - In dry rooms
 - In pipes in indoor areas
 - On cable racks in indoor areas
 - In cable channels in indoor areas
- For connecting stories or distribution centres within a building
- For splice connections and distribution point pre-assembly; suitable for backbone networks and as a connection and patch cable according to the fibre type
- Suitable for direct plug assembly when used as break-out cable
- No splicing work is necessary at the place of installation
- Suitable for structured cabling as per ISO/IEC 11801 and EN 50173
- Measurement reports included with delivery



Structure

- Plastic cable divider
- Tight buffer
- Sheath material: LSHF (Low Smoke Halogen Free)
- Sheath colour
 - OS2: Yellow
 - OM2: Orange
 - OM3: Aqua
 - OM4: Purple
- Includes insertion aid on sides A + B
- Graduated plug (individual fibres have different lengths downstream of the cross-connection cabinet)
- Break-out length (length of the individual fibres downstream of the cross-connection cabinet)
 - Shortest: 20 cm
 - Longest: From 31 cm to 68.5 cm
- Thread divider: M16, M20
- Corrugated tube diameter: 22 mm, 29 mm
- Max. traction force
 - On the gland: 300 N
 - On the traction element: 300 N
 - In the short term on the pure cable: 900 N
 - Permanently on the pure cable: 450 N
- Max. transverse pressure on the cable: 1500 N/cm
- Smallest short-term bend radius: 75 mm

CobiNet fibre-optic cable divider/trunk cable

LC - LC

Cable type: Break-out indoor cable I-V(ZN)HH

- Tight buffer
- Strain relief: Aramid
- Sheath material: LSZH



Item number	Number of fibres	Fibre quality	Fibre type
F751B9292/XX	4	OS2	E9/125
F771B9292/XX	8	OS2	E9/125
F781B9292/XX	12	OS2	E9/125
F791B9292/XX	24	OS2	E9/125
F757D9292/XX	4	OM2	G50/125
F777D9292/XX	8	OM2	G50/125
F787D9292/XX	12	OM2	G50/125
F797D9292/XX	24	OM2	G50/125
F756E9292/XX	4	OM3	G50/125
F776E9292/XX	8	OM3	G50/125
F786E9292/XX	12	OM3	G50/125
F796E9292/XX	24	OM3	G50/125
F754F9292/XX	4	OM4	G50/125
F774F9292/XX	4	OM4	G50/125
F784F9292/XX	4	OM4	G50/125
F794F9292/XX	4	OM4	G50/125

CobiNet fibre-optic cable divider/trunk cable

SC – SC

Cable type: Break-out indoor cable I-V(ZN)HH

- Tight buffer
- Strain relief: Aramid
- Sheath material: LSZH



Item number	Number of fibres	Fibre quality	Fibre type
F751B2222/XX	4	OS2	E9/125
F771B2222/XX	8	OS2	E9/125
F781B2222/XX	12	OS2	E9/125
F791B2222/XX	24	OS2	E9/125
F757D2222/XX	4	OM2	G50/125
F777D2222/XX	8	OM2	G50/125
F787D2222/XX	12	OM2	G50/125
F797D2222/XX	24	OM2	G50/125
F756E2222/XX	4	OM3	G50/125
F776E2222/XX	8	OM3	G50/125
F786E2222/XX	12	OM3	G50/125
F796E2222/XX	24	OM3	G50/125
F754F2222/XX	4	OM4	G50/125
F774F2222/XX	4	OM4	G50/125
F784F2222/XX	4	OM4	G50/125
F794F2222/XX	4	OM4	G50/125

i When ordering, enter length instead of XX.
(Example: F751B9292/25.0 = 25 metres)

Fibre-optic technology

Pre-assembled indoor cables (break-out cables)

CobiNet fibre-optic cable divider/trunk cable

E2000® 8° - E2000® 8°

Cable type: Break-out indoor cable I-V(ZN)HH

- Tight buffer
- Strain relief: Aramid
- Sheath material: LSZH



Item number	Number of fibres	Fibre quality	Fibre type
F751B5151/XX	4	OS2	E9/125
F771B5151/XX	8	OS2	E9/125
F781B5151/XX	12	OS2	E9/125
F791B5151/XX	24	OS2	E9/125

CobiNet fibre-optic cable divider/trunk cable

ST – ST

Cable type: Break-out indoor cable I-V(ZN)HH

- Tight buffer
- Strain relief: Aramid
- Sheath material: LSZH

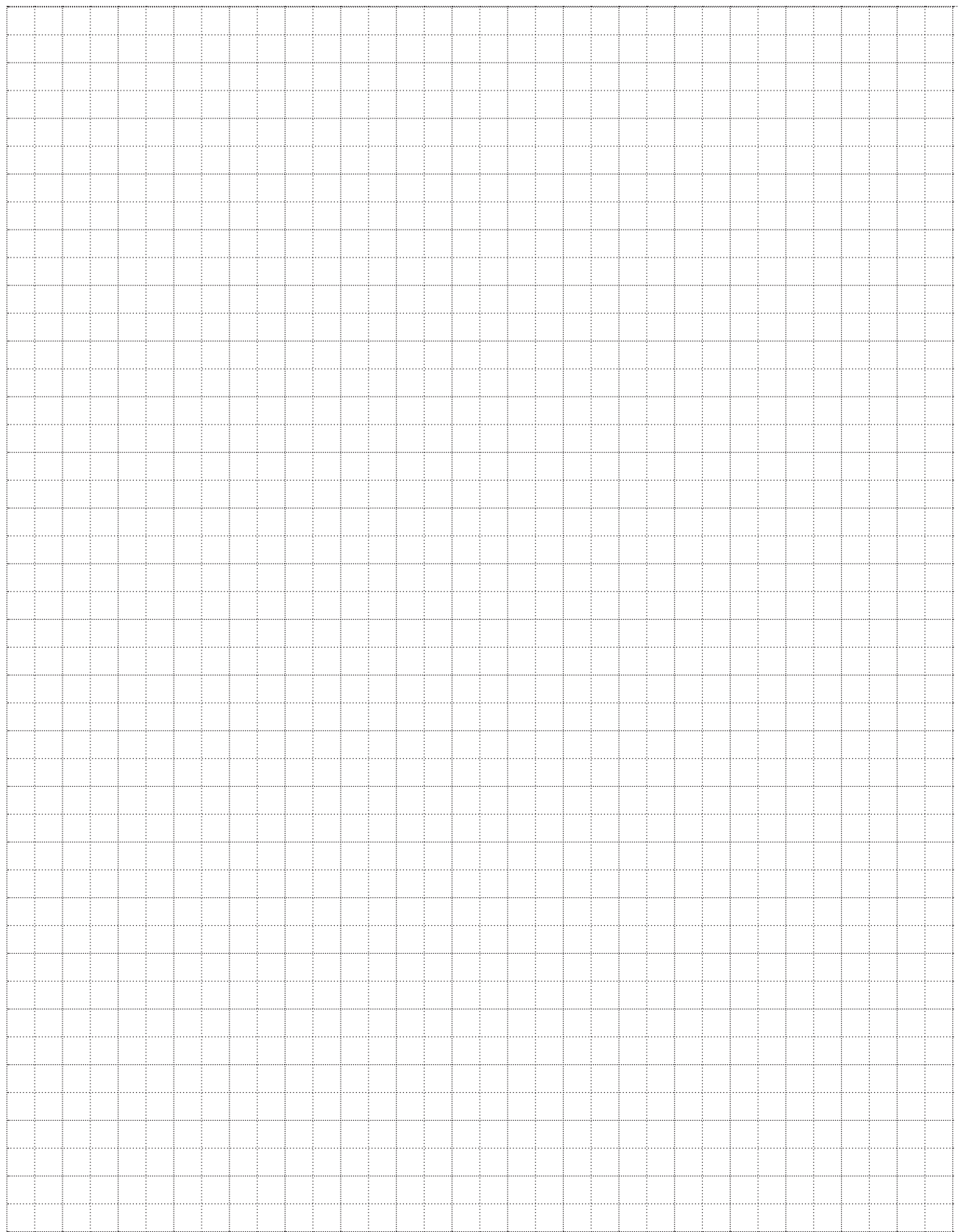


Item number	Number of fibres	Fibre quality	Fibre type
F751B1212/XX	4	OS2	E9/125
F771B1212/XX	8	OS2	E9/125
F781B1212/XX	12	OS2	E9/125
F791B1212/XX	24	OS2	E9/125
F757D1212/XX	4	OM2	G50/125
F777D1212/XX	8	OM2	G50/125
F787D1212/XX	12	OM2	G50/125
F797D1212/XX	24	OM2	G50/125
F756E1212/XX	4	OM3	G50/125
F776E1212/XX	8	OM3	G50/125
F786E1212/XX	12	OM3	G50/125
F796E1212/XX	24	OM3	G50/125
F754F1212/XX	4	OM4	G50/125
F774F1212/XX	4	OM4	G50/125
F784F1212/XX	4	OM4	G50/125
F794F1212/XX	4	OM4	G50/125

i When ordering, enter length instead of XX.
(Example: F751B5151/25.0 = 25 metres)

Notes

Make plans with us!



Fibre-optic technology

ALU splice boxes/distributor housings, fixed installation

The CobiNet FX (Fix) distributor housings and splice boxes for fixed installation can be used in all sub-areas of building data cabling (primary, secondary and tertiary areas). **The aluminium design significantly reduces the weight of the box.**

To reduce assembly time at the construction site, the box/housing is pre-assembled ready for installation. For the distributor housing, which is intended for pre-assembled trunk cables, this means that all couplings are inserted and screwed in.

With the splice box, the pigtails are also inserted, guided in with sufficient reserve outside of the splice cassette, and placed into the splice cassette with a separate secondary coating. The boxes are designed such that cables can be introduced via a gland or so that distribution points can be mounted.

Features:

- Splice/distributor drawer for the termination of 48 glass fibres incl. cover
- **Boxes are assembled ready to splice:**
 - Distributor housing: Adapters/couplings inserted and screwed in, incl. distribution point bracket
 - Splice box: Adapters/couplings inserted and screwed in, pigtails inserted into couplings and placed into splice cassette with separate secondary coating (colours as per DIN VDE 0888 Part 3 and IEC 60304)
- If not fully equipped, any unused front panel break-outs are sealed using dummy plugs.
- Cable inlets 90° for the accommodation of up to four cables or four pre-assembled cables with distribution points; two inlets each on the left and right-hand side
- Max. 4 splice cassettes (protected against rotation)
- Orderly and careful fibre guidance inside the box/housing
- Box/housing made of aluminium, front panel made of galvanised steel plate, colour similar to RAL 7035 (light grey) or RAL 9005 (jet black)
- Width: 19" (482.6 mm), depth: 255 mm (without couplings and cable glands)

CobiNet ALU splice box FX, unequipped

Item	Number of splice cassettes	Max. number of fibres	Equipping option	Item no.
Empty box with ST/DIN/FC break-outs	4	48*	ST/DIN/FC	5700 0100 011/24.1
Empty box with SC/E-2000®/LC break-outs	4	48*	SC/E-2000®/LC	5700 0100012/24.1
Empty box with SC-DX, LC-QD break-outs	4	48*	SC-DX, LC-QD	5700 0100022/24.1

* with 12 fibres per splice cassette

ALU splice boxes/distributor housings, fixed installation

Benefits of the CobiNet ALU splice box/distributor housing FX for fixed installation

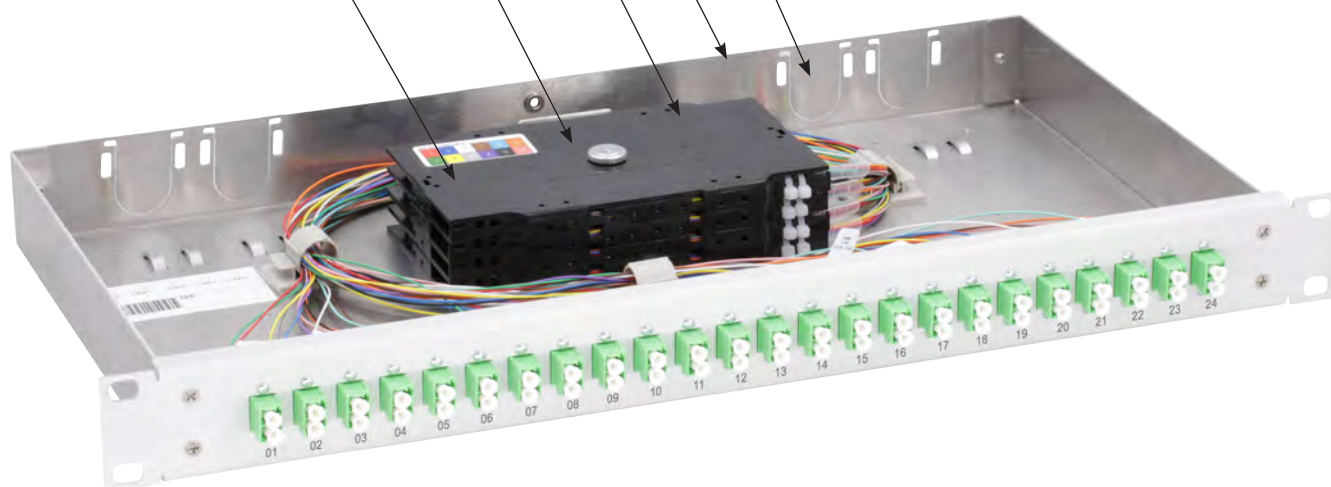
Cable inlets max. 90°

Splice/distributor drawer

Max. 4 splice cassettes
(protected against rotation)

Orderly and careful fibre guidance
inside the box/housing

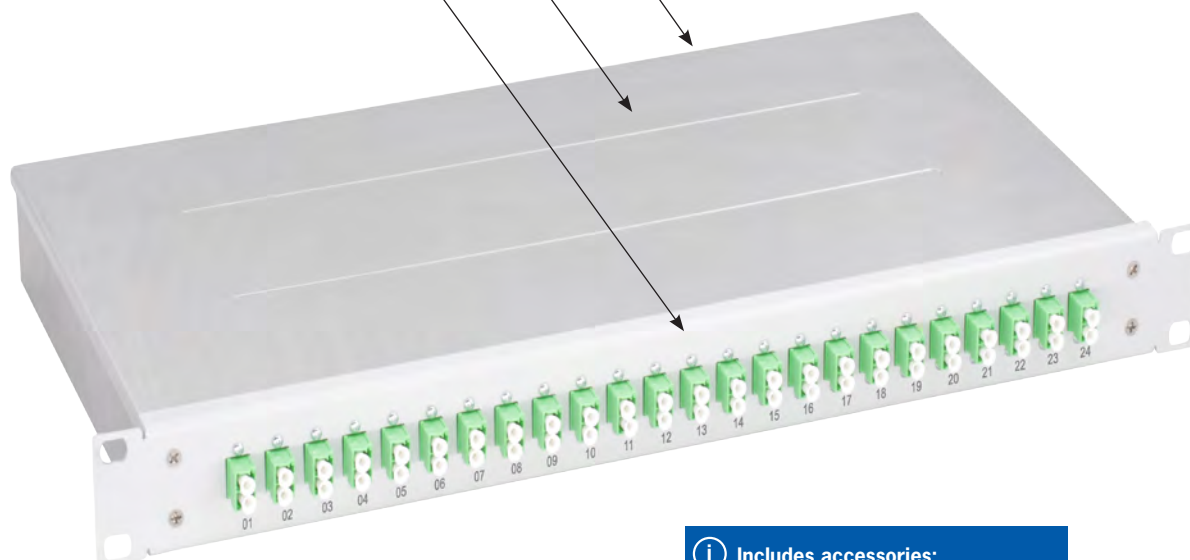
Separate secondary coating
in the splice cassette



Lightweight aluminium housing

Removable cover for dust protection

Front panel made of galvanised
steel plate



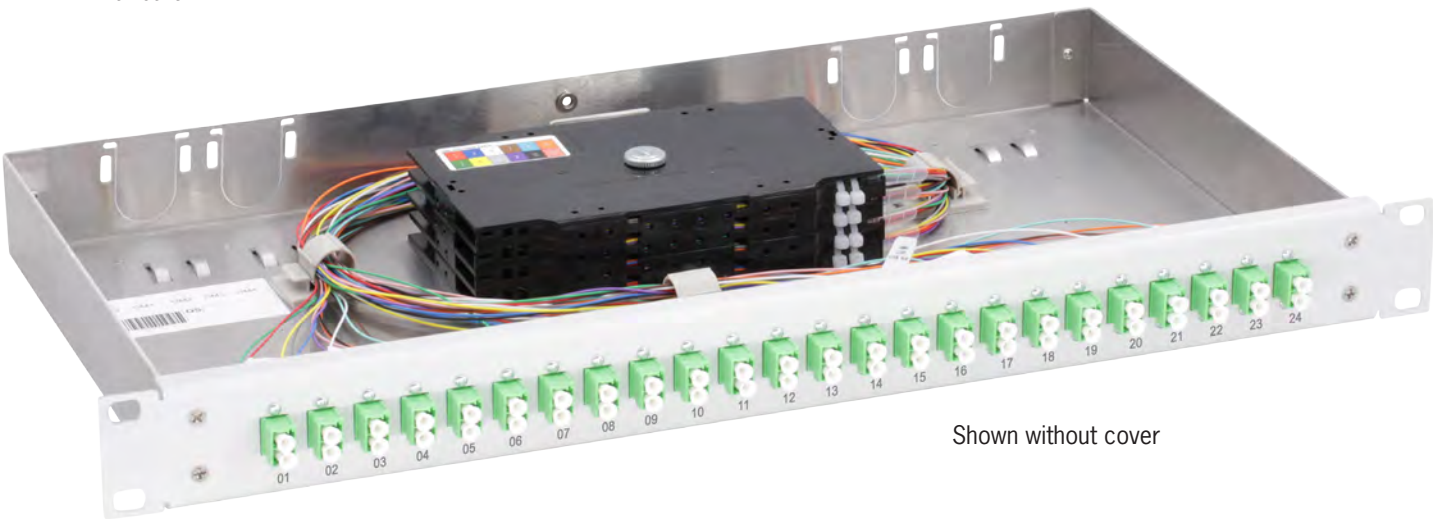
- i** Includes accessories:
- 19" mounting kit
 - Cable ties
 - Gland M20
 - Sticker with fibre-glass symbol

Computer centre

ALU splice boxes, fixed installation

CobiNet ALU splice box 19", fixed installation
Design: **LC Duplex**

- Fibre-optic technology
- 1 RU, fixed installation
 - Equipped with (max.): 24 couplings, 48 pigtails, 4 splice cassettes, 4 splice holders, splice cassette cover
 - Couplings inserted and screwed in
 - All coupling ferrules made of ceramic
 - Pigtails inserted in couplings and placed into the splice cassette with separate secondary coating, colour code as per IEC 60304 (12 colours)
 - RAL 7035 (light grey)
 - Incl. cover



Telecommunications

Shown without cover

1

Sleeves

i Additional designs on request

Technical information

Item number	Fibre quality	Fibre type	Design	Polish type	Coupling housing material	Fig.
5700 0112229/24.1	OS2	E9/125	Duplex	PC	Plastic housing, blue	
5700 0112129/24.1	OS2	E9/125	Duplex	APC 8°	Plastic housing, green	1
5700 0122329/24.1	OM2	G50/125	Duplex	PC	Plastic housing, beige	
5700 0123329/24.1	OM3	G50/125	Duplex	PC	Plastic housing, aqua	
5700 0124329/24.1	OM4	G50/125	Duplex	PC	Plastic housing, heather violet	

About CobiNet

CobiNet ALU splice box 19", fixed installation

Design: LC Quad

- 1 RU, fixed installation
- Equipped with (max.): 24 couplings, 96 pigtails, 4 splice cassettes, 8 splice holders, splice cassette cover
- Couplings inserted and screwed in
- All coupling ferrules made of ceramic
- Pigtails inserted in couplings and placed into the splice cassette with separate secondary coating
Colour code as per IEC 60304 (12 colours)
- RAL 7035 (light grey)
- Incl. cover



Shown without cover

1

 Additional designs on request

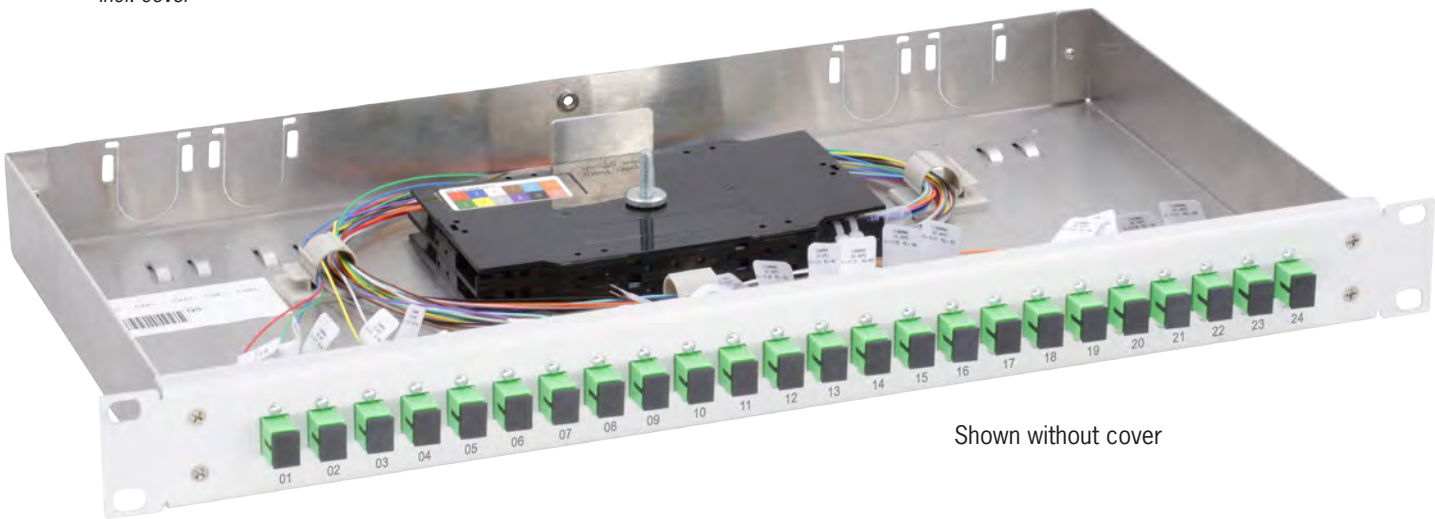
Item number	Fibre quality	Fibre type	Design	Polish type	Coupling housing material	Fig.
5700 0112239/24.1	OS2	E9/125	Quad	PC	Plastic housing, blue	1
5700 0112139/24.1	OS2	E9/125	Quad	APC 8°	Plastic housing, green	
5700 0122339/24.1	OM2	G50/125	Quad	PC	Plastic housing, beige	
5700 0123349/24.1	OM3	G50/125	Quad	PC	Plastic housing, aqua	
5700 0124349/24.1	OM4	G50/125	Quad	PC	Plastic housing, heather violet	

Computer centre

ALU splice boxes, fixed installation

CobiNet ALU splice box 19" (482.6 mm), fixed installation
Design: **SC Simplex**

- Fibre-optic technology
- 1 RU, fixed installation
 - Equipped with (max.): 24 couplings, 24 pigtails, 2 splice cassettes, 2 splice holders, splice cassette cover
 - Couplings inserted and screwed in
 - All coupling ferrules made of ceramic
 - Pigtails inserted in couplings and placed into the splice cassette with separate secondary coating
Colour code as per IEC 60304 (12 colours)
 - RAL 7035 (light grey)
 - Incl. cover



Shown without cover

1

Sleeves

i Additional designs on request

Technical information

Item number	Fibre quality	Fibre type	Design	Polish type	Coupling housing material	Fig.
5700 0112212/24.1	OS2	E9/125	Simplex	PC	Plastic housing, blue	
5700 0112112/24.1	OS2	E9/125	Simplex	APC 8°	Plastic housing, green	1
5700 0122312/24.1	OM2	G50/125	Simplex	PC	Plastic housing, beige	
5700 0123312/24.1	OM3	G50/125	Simplex	PC	Plastic housing, aqua	
5700 0124312/24.1	OM4	G50/125	Simplex	PC	Plastic housing, heather violet	

About CobiNet

CobiNet ALU splice box 19" (482.6 mm), fixed installation

Design: **SC Duplex**

- 1 RU, fixed installation
- Equipped with (max.): 24 couplings, 48 pigtails, 4 splice cassettes, 4 splice holders, splice cassette cover
- Couplings inserted and screwed in
- All coupling ferrules made of ceramic
- Pigtails inserted in couplings and placed into the splice cassette with separate secondary coating
Colour code as per IEC 60304 (12 colours)
- RAL 7035 (light grey)
- Incl. cover



Shown without cover

1

 Additional designs on request

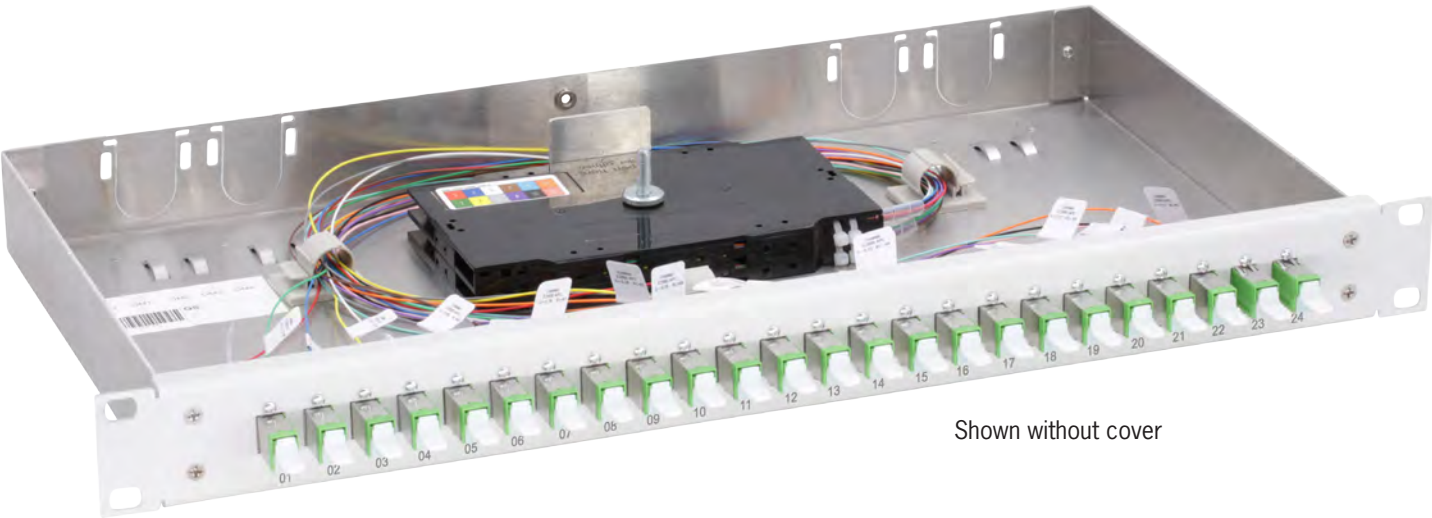
Item number	Fibre quality	Fibre type	Design	Polish type	Coupling housing material	Fig.
5700 0112222/24.1	OS2	E9/125	Duplex	PC	Plastic housing, blue	
5700 0112122/24.1	OS2	E9/125	Duplex	APC 8°	Plastic housing, green	1
5700 0122322/24.1	OM2	G50/125	Duplex	PC	Plastic housing, beige	
5700 0123322/24.1	OM3	G50/125	Duplex	PC	Plastic housing, aqua	
5700 0124322/24.1	OM4	G50/125	Duplex	PC	Plastic housing, heather violet	

Computer centre

ALU splice boxes, fixed installation

CobiNet ALU splice box 19" (482.6 mm), fixed installation,
design: **E2000® Simplex**

- Fibre-optic technology
- 1 RU, fixed installation
 - Equipped with (max.): 24 couplings, 24 pigtails,
2 splice cassettes, 2 splice holders, splice cassette cover
 - Couplings inserted and screwed in
 - All coupling ferrules made of ceramic
 - Pigtails inserted in couplings and placed into the splice cassette
with separate secondary coating
Colour code as per IEC 60304 (12 colours)
 - RAL 7035 (light grey)
 - Incl. cover



1

Sleeves

i Additional designs on request

Technical information

Item number	Fibre quality	Fibre type	Design	Polish type	Coupling housing material	Fig.
5700 0112215/24.1	OS2	E9/125	Simplex	PC	Plastic housing, blue	
5700 0112115/24.1	OS2	E9/125	Simplex	APC 8°	Plastic housing, green	1

About CobiNet

CobiNet ALU splice box 19" (482.6 mm), fixed installation, design: **E2000® Duplex**

- 1 RU, fixed installation
- Equipped with (max.): 24 couplings, 48 pigtails, 4 splice cassettes, 4 splice holders, splice cassette cover
- Couplings inserted and screwed in
- All coupling ferrules made of ceramic
- Pigtails inserted in couplings and placed into the splice cassette with separate secondary coating
Colour code as per IEC 60304 (12 colours)
- RAL 7035 (light grey)
- Incl. cover



1

 Additional designs on request

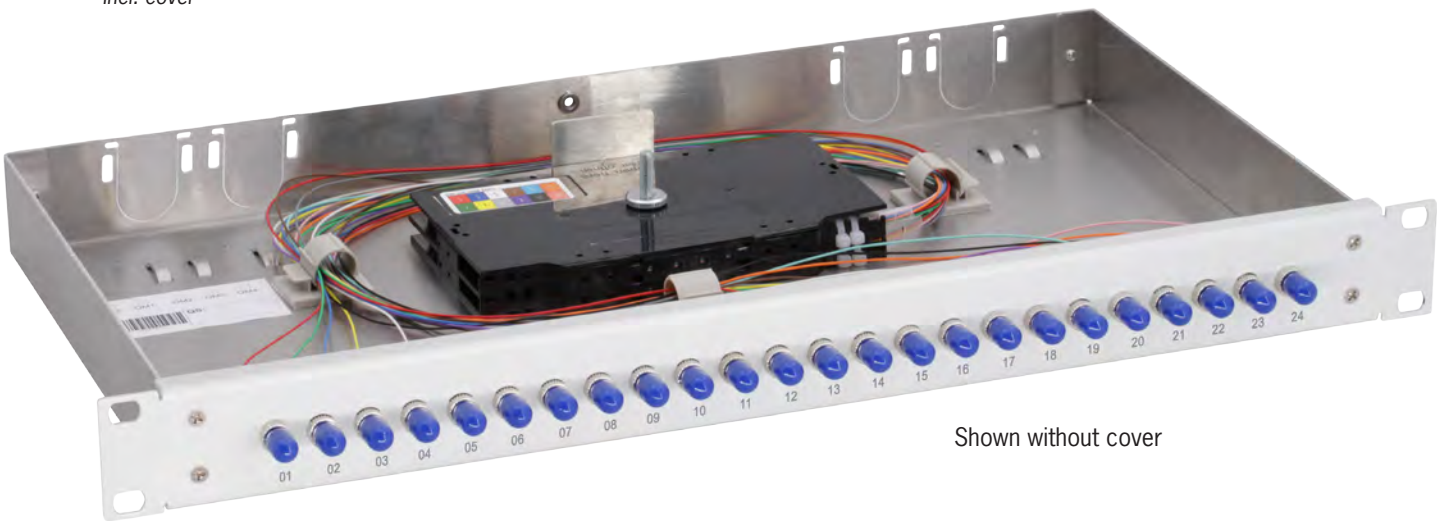
Item number	Fibre quality	Fibre type	Design	Polish type	Coupling housing material	Fig.
5700 0112225/24.1	OS2	E9/125	Duplex	PC	Plastic housing, blue	
5700 0112125/24.1	OS2	E9/125	Duplex	APC 8°	Plastic housing, green	1

Computer centre

ALU splice boxes, fixed installation

CobiNet ALU splice box 19" (482.6 mm), fixed installation
Design: **ST**

- Fibre-optic technology
- 1 RU, fixed installation
 - Equipped with (max.): 24 couplings, 24 pigtails, 2 splice cassettes, 2 splice holders, splice cassette cover
 - Couplings inserted and screwed in
 - All coupling ferrules made of ceramic
 - Pigtails inserted in couplings and placed into the splice cassette with separate secondary coating
 - Colour code as per IEC 60304 (12 colours)
 - RAL 7035 (light grey)
 - Incl. cover



Shown without cover

1

Sleeves

i Additional designs on request

Technical information

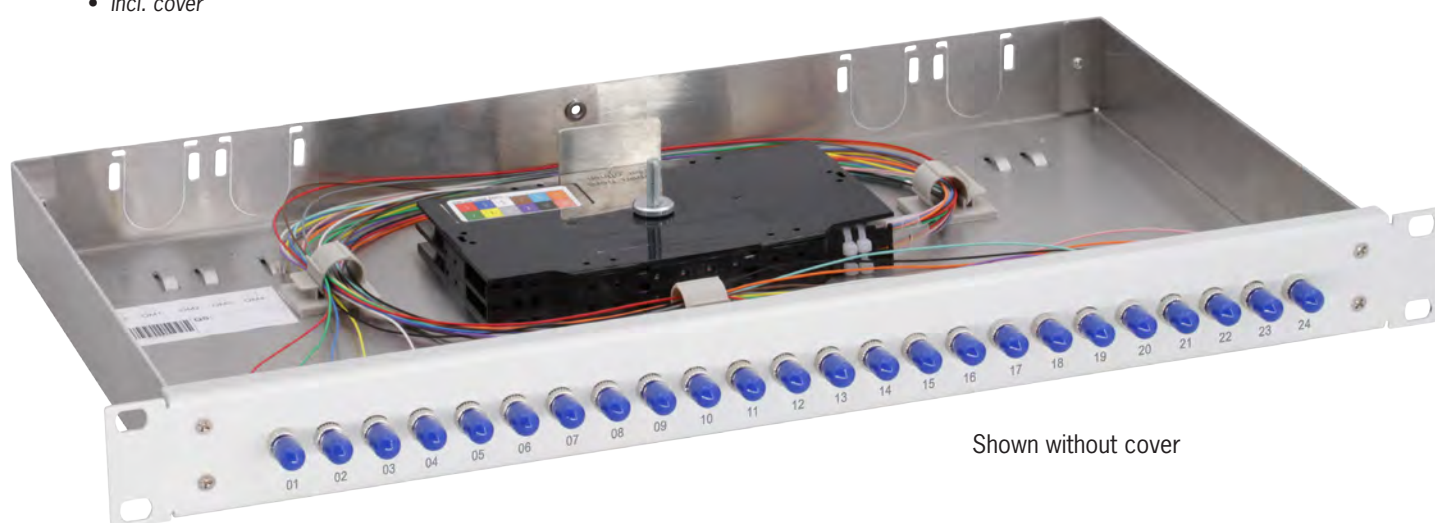
Item number	Fibre quality	Fibre type	Design	Polish type	Coupling housing material	Fig.
5700 0112231/24.1	OS2	E9/125	Simplex	PC	Metal housing	1
5700 0122331/24.1	OM2	G50/125	Simplex	PC	Metal housing	
5700 0123331/24.1	OM3	G50/125	Simplex	PC	Metal housing	
5700 0124331/24.1	OM4	G50/125	Simplex	PC	Metal housing	

About CobiNet

CobiNet ALU splice box 19" (482.6 mm), fixed installation

Design: **FC**

- 1 RU, fixed installation
- Equipped with (max.): 24 couplings, 24 pigtails, 2 splice cassettes, 2 splice holders, splice cassette cover
- Couplings inserted and screwed in
- All coupling ferrules made of ceramic
- Pigtails inserted in couplings and placed into the splice cassette with separate secondary coating
Colour code as per IEC 60304 (12 colours)
- RAL 7035 (light grey)
- Incl. cover



Shown without cover

1

i Additional designs on request

Item number	Fibre quality	Fibre type	Design	Polish type	Coupling housing material	Fig.
5700 0112233/24.1	OS2	E9/125	Simplex	PC	Metal housing	1
5700 0122333/24.1	OM2	G50/125	Simplex	PC	Metal housing	
5700 0123333/24.1	OM3	G50/125	Simplex	PC	Metal housing	
5700 0124333/24.1	OM4	G50/125	Simplex	PC	Metal housing	

ALU distributor housings, fixed installation

CobiNet ALU distributor housing 19", fixed installation

Design: LC

- 1 RU, fixed installation
- For the connection of trunk cables
- Equipped with (max.): 24 couplings
- Couplings inserted and screwed in
- All coupling ferrules made of ceramic
- RAL 7035 (light grey)



[Additional designs on request](#)

Item number	Design	Polish type	Coupling housing material	Fig.
5701 0111229/24.1	Duplex	PC	Plastic housing, blue	
5701 0111129/24.1	Duplex	APC 8°	Plastic housing, green	1
5701 0121329/24.1	Duplex	PC	Plastic housing, beige	
5701 0121349/24.1	Quad	PC	Plastic housing, beige	2

CobiNet ALU distributor housing 19", fixed installation

Design: SC

- 1 RU, fixed installation
- For the connection of trunk cables
- Equipped with (max.): 24 couplings
- Couplings inserted and screwed in
- All coupling ferrules made of ceramic
- RAL 7035 (light grey)



[Additional designs on request](#)

Item number	Design	Polish type	Coupling housing material	Fig.
5701 0111212/24.1	Simplex	PC	Plastic housing, blue	3
5701 0121312/24.1	Simplex	PC	Plastic housing, beige	
5701 0111222/24.1	Duplex	PC	Plastic housing, blue	4
5701 0121322/24.1	Duplex	PC	Plastic housing, beige	

CobiNet ALU distributor housing 19", fixed installation

Design: **E2000®**

- 1 RU, fixed installation
- For the connection of trunk cables
- Equipped with (max.): 24 couplings
- Couplings inserted and screwed in
- All coupling ferrules made of ceramic
- RAL 7035 (light grey)



Item number	Design	Polish type	Coupling housing material	Fig.
5701 0111115/24	Simplex	APC 8°	Plastic housing, green	1
5701 0111225/24	Duplex	PC	Plastic housing, blue	
5701 0111125/24	Duplex	APC 8°	Plastic housing, green	2

CobiNet ALU distributor housing 19", fixed installation

Design: **ST**

- 1 RU, fixed installation
- For the connection of trunk cables
- Equipped with (max.): 24 couplings
- Couplings inserted and screwed in
- All coupling ferrules made of ceramic
- RAL 7035 (light grey)



Item number	Design	Polish type	Coupling housing material	Fig.
5701 0111131/24.1	Simplex	PC	Metal housing	3

Fibre-optic technology

Extendible and tilting splice box/distributor housing

The CobiNet PB (Pullout Basic) distributor housing and splice box combines the convenience of the extendible solution with the security of the fixed-installation version.

It can be used in all sub-areas of building data cabling (primary, secondary and tertiary areas).

To reduce assembly time at the construction site, the box/housing is pre-assembled ready for installation. For the distributor housing, which is intended for pre-assembled trunk cables, this means that all couplings are inserted and screwed in. With the splice box, the pigtails are also inserted, guided in with sufficient reserve outside of the splice cassette, and placed into the splice cassette with a separate secondary coating. The boxes are designed such that cables can be introduced via glands and so that distribution points can be mounted.

Features:

- Extendible, tilting and detachable splice/distributor drawer for the termination of 48 glass fibres
- The newly developed SB adapter allows for fixed cable installation, which can be reversed at any time:
 - Unintentional removal is prevented
 - Splices are inaccessible
- **Boxes are assembled ready to splice:**
 - Distributor housing: Adapters/couplings inserted and screwed in, incl. distribution point bracket
 - Splice box: Adapters/couplings inserted and screwed in, pigtails inserted into couplings and placed into splice cassette with separate secondary coating (colours as per DIN VDE 0888 Part 3 and IEC 60304)
- If not fully equipped, any unused front panel break-outs are sealed using dummy plugs.
- Cable inlets 45° and 90° changeable on both sides, for the accommodation of cables or for pre-assembled cables with distribution points
- Max. 4 splice cassettes (protected against rotation)
- Orderly and careful fibre guidance inside the box/housing
- Box/housing/drawer made of galvanised steel plate, colour similar to RAL 7035 (light grey) or RAL 9005 (jet black)
- Width: 19" (482.6 mm), depth: 225 mm (without couplings and cable glands)

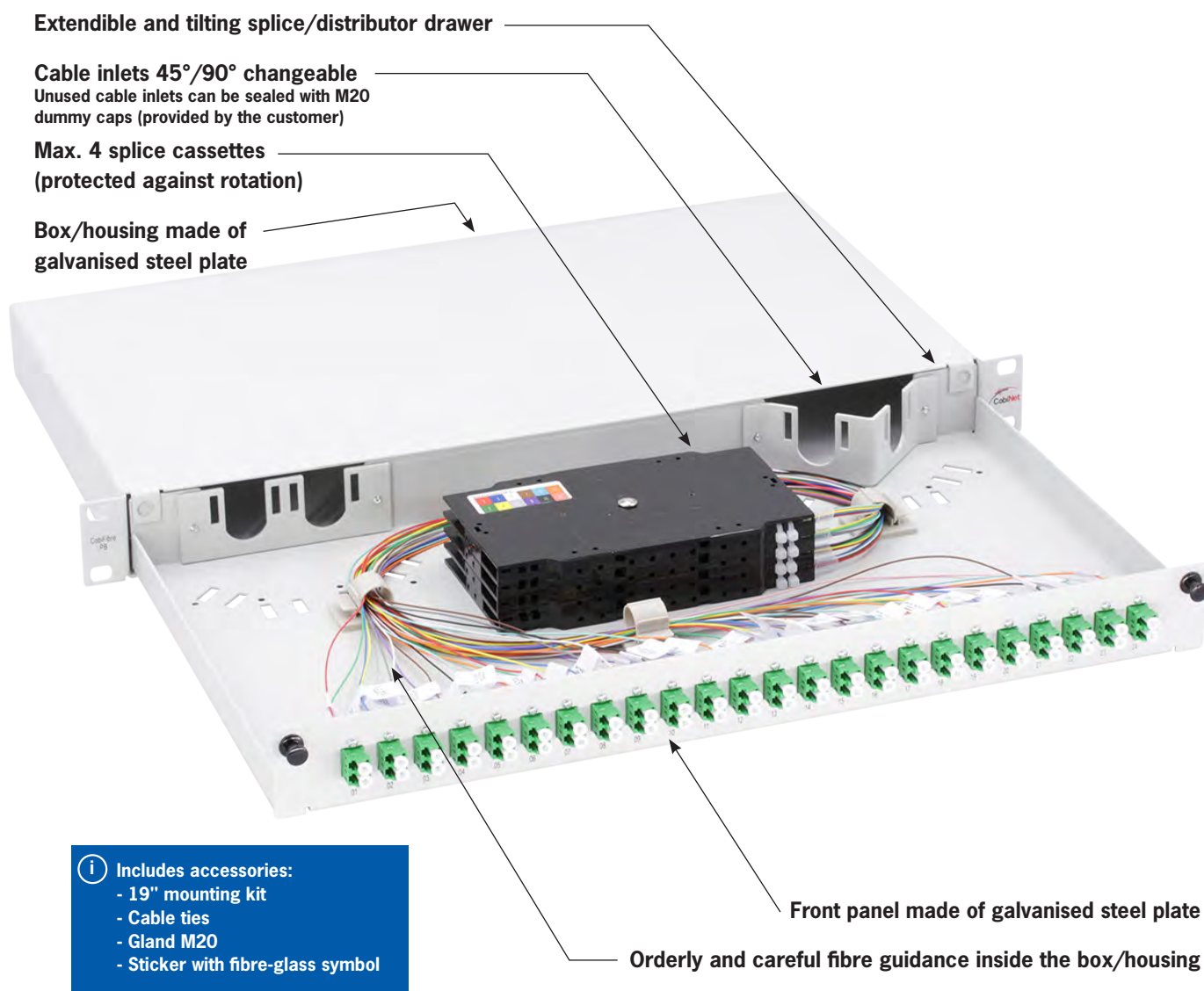
CobiNet splice box PB, unequipped

Item	Number of splice cassettes	Max. number of fibres	Equipping option	Item no.
Empty box with ST/DIN/FC break-outs	4	48*	ST/DIN/FC	5710 0100 011/24.1
Empty box with SC/E-2000®/LC break-outs	4	48*	SC/E-2000®/LC	5710 0100012/24.1
Empty box with SC-DX, LC-QD break-outs	4	48*	SC-DX, LC-QD	5710 0100022/24.1

* with 12 fibres per splice cassette

Extendible and tilting splice box/distributor housing

Features of the extendible and tilting CobiNet PB splice box/distributor housing



Extendible/tilting version with press-stud fastener



Closed version with SB adapter

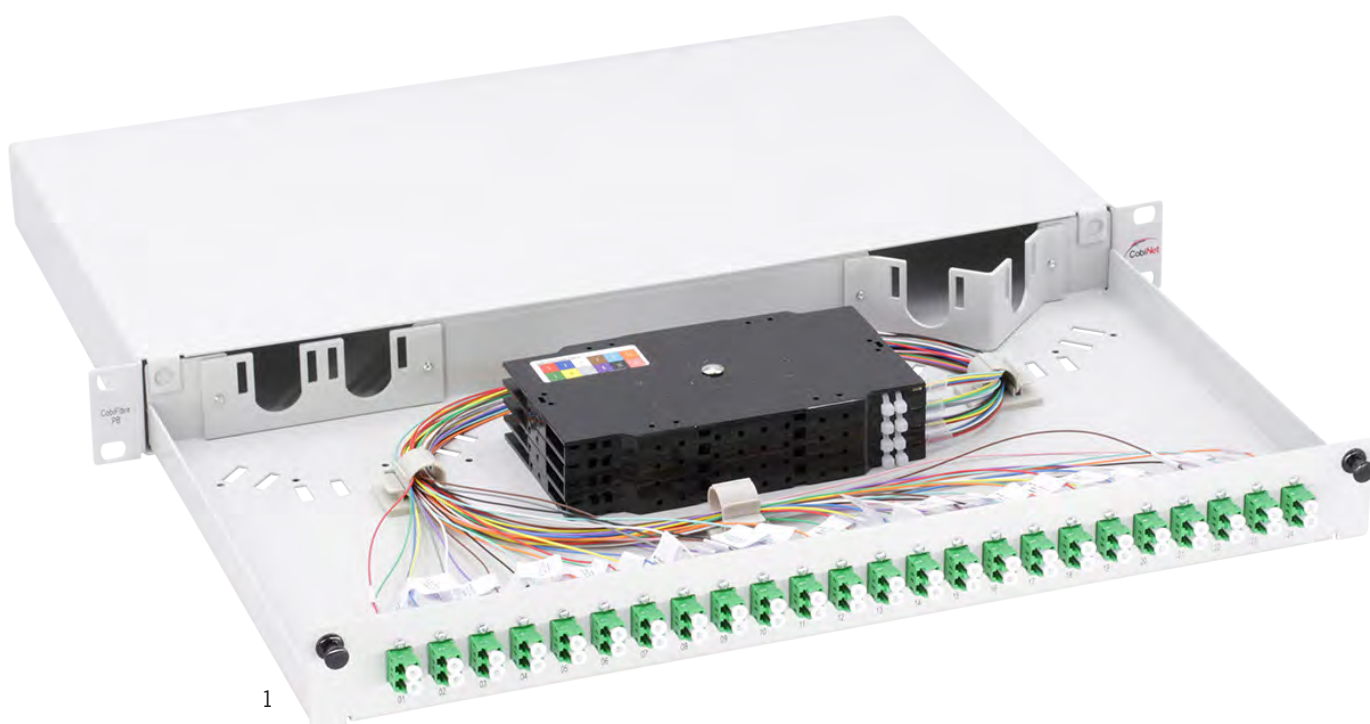
Fibre-optic technology

Extendible and tilting splice box

CobiNet splice box, 19", extendible

Design: LC Duplex

- 1 RU, extendible and tilting
- Equipped with (max.): 24 couplings, 48 pigtails, 4 splice cassettes, 4 splice holders, splice cassette cover
- Couplings inserted and screwed in
- All coupling ferrules made of ceramic
- Pigtails inserted in couplings and placed into the splice cassette with separate secondary coating
- Colour code as per IEC 60304 (12 colours)
- RAL 7035 (light grey)



1

[Additional designs on request](#)

Item number	Fibre quality	Fibre type	Design	Polish type	Coupling housing material	Fig.
5710 0112229/24.1	OS2	E9/125	Duplex	PC	Plastic housing, blue	
5710 0112129/24.1	OS2	E9/125	Duplex	APC 8°	Plastic housing, green	1
5710 0122329/24.1	OM2	G50/125	Duplex	PC	Plastic housing, beige	
5710 0123329/24.1	OM3	G50/125	Duplex	PC	Plastic housing, aqua	
5710 0124329/24.1	OM4	G50/125	Duplex	PC	Plastic housing, heather violet	

CobiNet splice box, 19", extendible

Design: LC Quad

- 1 RU, extendible and tilting
- Equipped with: 24 couplings, 96 pigtails, 4 splice cassettes, 8 splice holders, splice cassette cover
- Couplings inserted and screwed in
- Pigtails inserted in couplings and placed into the splice cassette with separate secondary coating
Colour code as per IEC 60304 (12 colours)
- RAL 7035 (light grey)



 Additional designs on request

Item number	Fibre quality	Fibre type	Design	Polish type	Coupling housing material	Fig.
5710 0112239/24.1	OS2	E9/125	Quad	PC	Plastic housing, blue	
5710 0112139/24.1	OS2	E9/125	Quad	APC 8°	Plastic housing, green	1
5710 0122339/24.1	OM2	G50/125	Quad	PC	Plastic housing, beige	
5710 0123349/24.1	OM3	G50/125	Quad	PC	Plastic housing, aqua	
5710 0124349/24.1	OM4	G50/125	Quad	PC	Plastic housing, heather violet	

Fibre-optic technology

Extendible and tilting splice box

CobiNet splice box, 19", 1 RU, extendible and tilting

Design: SC Simplex

- 1 RU, extendible and tilting
- Equipped with: 24 couplings, 24 pigtails, 2 splice cassettes, 2 splice holders, splice cassette cover
- Couplings inserted and screwed in
- Pigtails inserted in couplings and placed into the splice cassette with separate secondary coating
Colour code as per IEC 60304 (12 colours)
- RAL 7035 (light grey)



1

[Additional designs on request](#)

Item number	Fibre quality	Fibre type	Design	Polish type	Coupling housing material	Fig.
5710 0112212/24.1	OS2	E9/125	Simplex	PC	Plastic housing, blue	1
5710 0112112/24.1	OS2	E9/125	Simplex	APC 8°	Plastic housing, green	
5710 0122312/24.1	OM2	G50/125	Simplex	PC	Plastic housing, beige	
5710 0123312/24.1	OM3	G50/125	Simplex	PC	Plastic housing, aqua	
5710 0124312/24.1	OM4	G50/125	Simplex	PC	Plastic housing, heather violet	

CobiNet splice box, 19", 1 RU, extendible and tilting

Design: SC Duplex

- 1 RU, extendible and tilting
- Equipped with: 24 couplings, 48 pigtails, 4 splice cassettes, 4 splice holders, splice cassette cover
- Couplings inserted and screwed in
- Pigtails inserted in couplings and placed into the splice cassette with separate secondary coating
Colour code as per IEC 60304 (12 colours)
- RAL 7035 (light grey)



1

i Additional designs on request

Item number	Fibre quality	Fibre type	Design	Polish type	Coupling housing material	Fig.
5710 0112222/24.1	OS2	E9/125	Duplex	PC	Plastic housing, blue	
5710 0112122/24.1	OS2	E9/125	Duplex	APC 8°	Plastic housing, green	1
5710 0122322/24.1	OM2	G50/125	Duplex	PC	Plastic housing, beige	
5710 0123322/24.1	OM3	G50/125	Duplex	PC	Plastic housing, aqua	
5710 0124322/24.1	OM4	G50/125	Duplex	PC	Plastic housing, heather violet	

Extendible and tilting splice box

CobiNet splice box, 19", extendible
Design: **E2000® Simplex**

- 1 RU, extendible and tilting
- Equipped with: 24 couplings, 24 pigtails, 2 splice cassettes, 2 splice holders, splice cassette cover
- Couplings inserted and screwed in
- Pigtails inserted in couplings and placed into the splice cassette with separate secondary coating
- Colour code as per IEC 60304 (12 colours)
- RAL 7035 (light grey)



1

 Additional designs on request

Item number	Fibre quality	Fibre type	Design	Polish type	Coupling housing material	Fig.
5710 0112215/24.1	OS2	E9/125	Simplex	PC	Plastic housing, blue	
5710 0112115/24.1	OS2	E9/125	Simplex	APC 8°	Plastic housing, green	1

CobiNet splice box, 19", extendible

Design: **E2000® Duplex**

- 1 RU, extendible and tilting
- Equipped with: 24 couplings, 48 pigtails, 4 splice cassettes, 4 splice holders, splice cassette cover
- Couplings inserted and screwed in
- Pigtails inserted in couplings and placed into the splice cassette with separate secondary coating
Colour code as per IEC 60304 (12 colours)
- RAL 7035 (light grey)



1

 Additional designs on request

Item number	Fibre quality	Fibre type	Design	Polish type	Coupling housing material	Fig.
5710 0112225/24.1	OS2	E9/125	Duplex	PC	Plastic housing, blue	
5710 0112125/24.1	OS2	E9/125	Duplex	APC 8°	Plastic housing, green	1

Computer centre

Extendible and tilting splice box

CobiNet splice box, 19", extendible
Design: **ST**

- 1 RU, extendible and tilting
- Equipped with: 24 couplings, 24 pigtails, 2 splice cassettes, 2 splice holders, splice cassette cover
- Couplings inserted and screwed in
- Pigtails inserted in couplings and placed into the splice cassette with separate secondary coating
- Colour code as per IEC 60304 (12 colours)
- RAL 7035 (light grey)



1

i Additional designs on request

Technical information

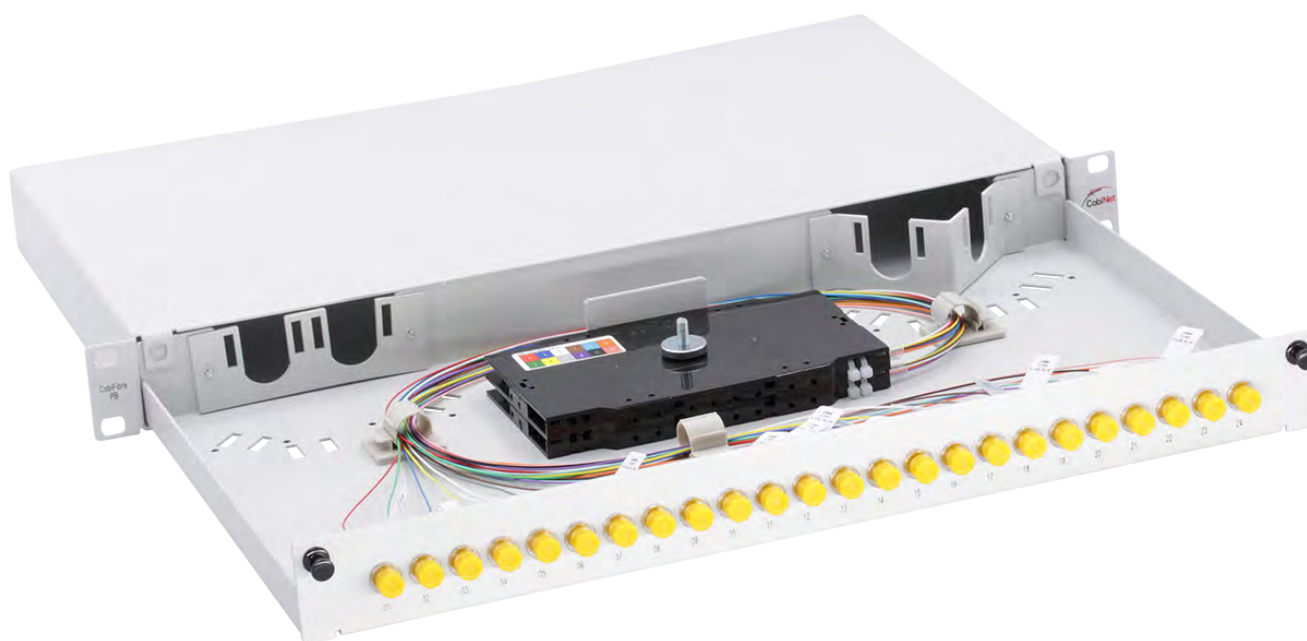
Item number	Fibre quality	Fibre type	Design	Polish type	Coupling housing material	Fig.
5710 0112231/24.1	OS2	E9/125	Simplex	PC	Metal housing	1
5710 0122331/24.1	OM2	G50/125	Simplex	PC	Metal housing	
5710 0123331/24.1	OM3	G50/125	Simplex	PC	Metal housing	
5710 0124331/24.1	OM4	G50/125	Simplex	PC	Metal housing	

About CobiNet

CobiNet splice box, 19", extendible

Design: **FC**

- 1 RU, extendible and tilting
- Equipped with: 24 couplings, 24 pigtails, 2 splice cassettes, 2 splice holders, splice cassette cover
- Couplings inserted and screwed in
- Pigtails inserted in couplings and placed into the splice cassette with separate secondary coating
Colour code as per IEC 60304 (12 colours)
- RAL 7035 (light grey)



1

 Additional designs on request

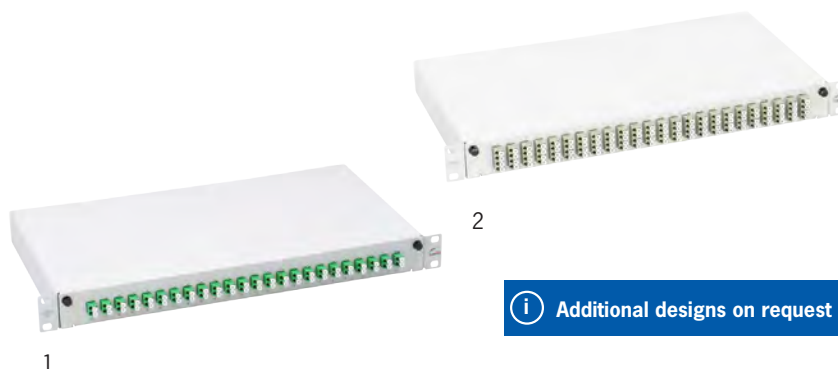
Item number	Fibre quality	Fibre type	Design	Polish type	Coupling housing material	Fig.
5710 0112233/24.1	OS2	E9/125	Simplex	PC	Metal housing	
5710 0112133/24.1	OS2	E9/125	Simplex	APC 8°	Metal housing	1
5710 0122333/24.1	OM2	G50/125	Simplex	PC	Metal housing	
5710 0123333/24.1	OM3	G50/125	Simplex	PC	Metal housing	
5710 0124333/24.1	OM4	G50/125	Simplex	PC	Metal housing	

Extendible and tilting distributor housing

CobiNet distributor housing, 19", extendible

Design: LC

- 1 RU, extendible and tilting
- Equipped with: 24 couplings
- Couplings inserted and screwed in
- Incl. distribution point bracket
- RAL 7035 (light grey)



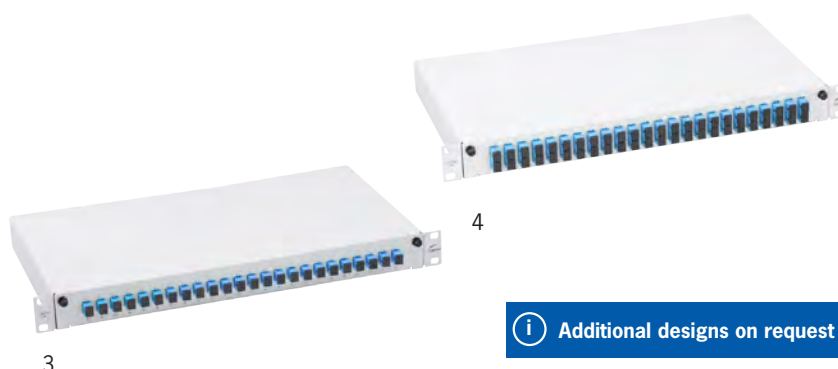
[Additional designs on request](#)

Item number	Design	Polish type	Coupling housing material	Fig.
5711 0111229/24.1	Duplex	PC	Plastic housing, blue	
5711 0111129/24.1	Duplex	APC 8°	Plastic housing, green	1
5711 0121329/24.1	Duplex	PC	Plastic housing, beige	
5711 0121349/24.1	Quad	PC	Plastic housing, beige	2

CobiNet distributor housing, 19", extendible

Design: SC

- 1 RU, extendible and tilting
- Equipped with: 24 couplings
- Couplings inserted and screwed in
- Incl. distribution point bracket
- RAL 7035 (light grey)



[Additional designs on request](#)

Item number	Design	Polish type	Coupling housing material	Fig.
5711 0111212/24.1	Simplex	PC	Plastic housing, blue	3
5711 0121312/24.1	Simplex	PC	Plastic housing, beige	
5711 0111222/24.1	Duplex	PC	Plastic housing, blue	4
5711 0121322/24.1	Duplex	PC	Plastic housing, beige	

CobiNet distributor housing, 19", extendible

Design: E2000®

- 1 RU, extendible and tilting
- Equipped with: 24 couplings
- Couplings inserted and screwed in
- Incl. distribution point bracket
- RAL 7035 (light grey)



Item number	Design	Polish type	Coupling housing material	Fig.
5711 0111115/24	Simplex	APC 8°	Plastic housing, green	1
5711 0111115/24.1	Simplex	APC 8°	Plastic housing, green	
5711 0111225/24.1	Duplex	PC	Plastic housing, blue	
5711 0111125/24.1	Duplex	APC 8°	Plastic housing, green	2
5711 0121325/24.1	Duplex	PC	Plastic housing, beige	

CobiNet distributor housing, 19", extendible

Design: ST

- 1 RU, extendible and tilting
- Equipped with: 24 couplings
- Couplings inserted and screwed in
- Incl. distribution point bracket
- RAL 7035 (light grey)



Item number	Design	Polish type	Coupling housing material	Fig.
5711 0111131/24	Simplex	PC	Metal housing	3



Features:

- Dimensions (W x H x D): 200 x 235 x 67 mm
- Material: Structured ASA, extremely resistant plastic, impact-resistant and weather-resistant
- Colour: RAL 7035 (light grey)
- Protection class as per IEC 60529: IP54-protected
- Cover locking hook with option of sealing
- Splice cassette for simple assembly and maintenance with maximum fibre protection, crossover option and storage of excess fibre length
- Designed for 12 fibres when splicing, and for 24 fibres (outgoing) when used as a distributor housing with optical coupler
- Option of installing a profile half-cylinder for integration in your locking system
- Strain relief for cables and patch cables
- Assembly and fixing for gas/water blockers
- Patch cable outlet with flexible lamellar seal
- Modular adapter plate with cut-outs for fibre-optic couplings
12x ST, FC, DIN (LSA);
9x LC-DX, SC-SX, E-2000® SX, MTRJ;
6x SC-DX, E-2000® DX, LC-QD
- Equipped with: Couplings, pigtails, splice cassette, splice holders, splice cassette cover
- Couplings inserted or screwed in, pigtails inserted in couplings and placed into the splice cassette with separate secondary coating
- Colour code as per IEC 60304 (12 colours)
- Attachment option for optical couplers
- Cable inlet with metric gland
2x M20 gland and option of using 2x M25 gland

Item	Number of splice cassettes	Number of fibres	Cable inlets
Splice box/distributor housing OD12	1	12	2x M20; M25 possible
Splice box/distributor housing OD24	1	24	2x M20; M25 possible

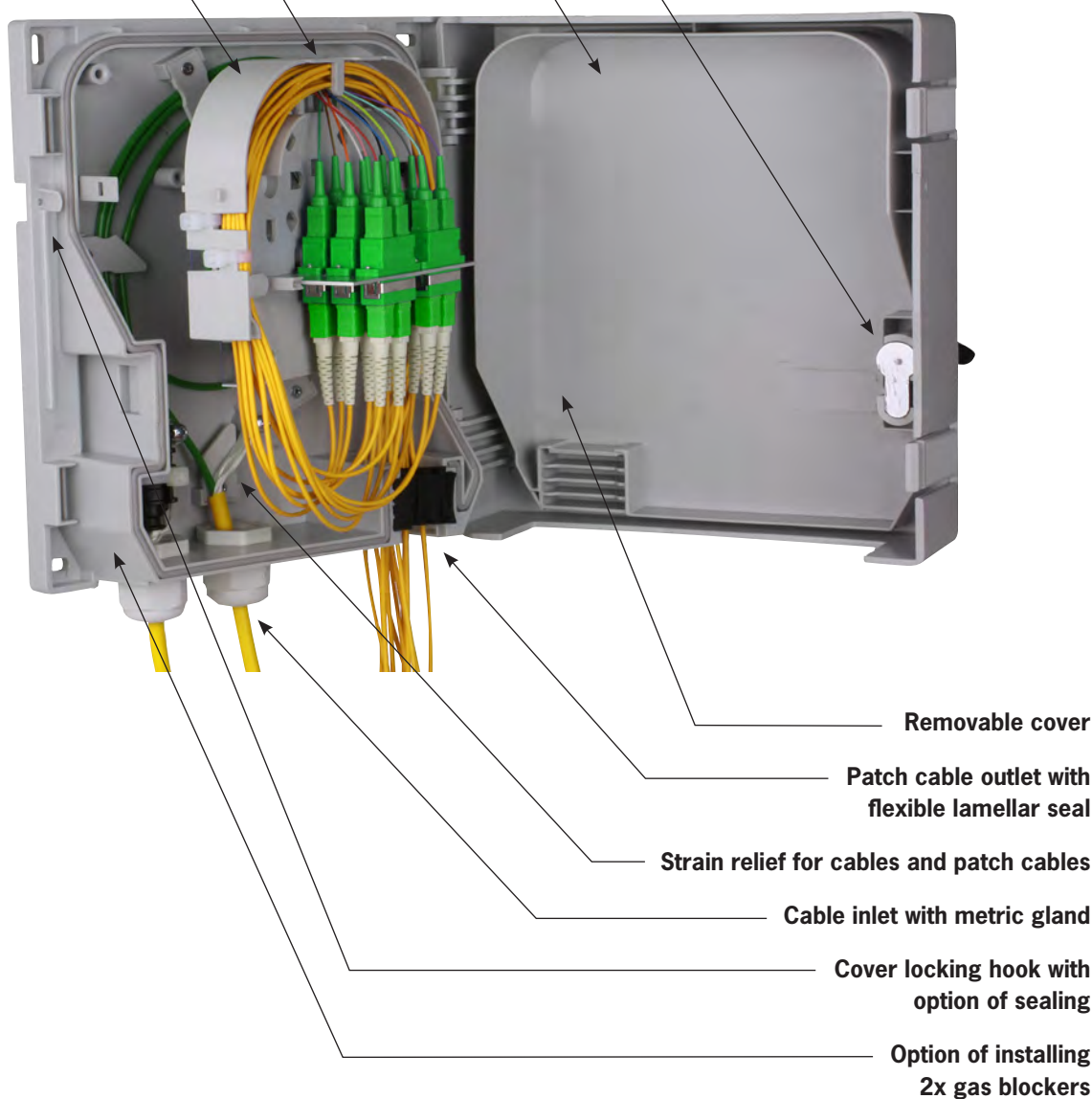
Features of the splice box and distributor housing OD 12/24

Profile half-cylinder for installation by the customer

Structured ASA (vandalism-proof)
RAL 7035 (light grey)

Swivelling cassette for simple connection

Option of rear installation
of 2x splitter



Removable cover

Patch cable outlet with
flexible lamellar seal

Strain relief for cables and patch cables

Cable inlet with metric gland

Cover locking hook with
option of sealing

Option of installing
2x gas blockers

Splice boxes and distributor housings OD 12

CobiNet splice box OD 12

Design: 6x LC Duplex

- Colour code as per IEC 60304 (12 colours)
- Incl. distribution plate 6x LC-DX
- Equipped with 12x LC pigtails
- Cover locking hook with option of sealing
- Installation of a profile half-cylinder for integration in your locking system
- Protection class as per IEC 60529: IP54-protected
- Assembly and fixing for gas/water blockers



1

Item number	Fibre quality	Fibre thickness	Polish type	Coupling	Coupling housing material	Number of couplings	Fig.
57B0 0112229/6	OS2	E9/125	PC	LC	Plastic housing, blue	6xLC-DX	
57B0 0112129/6	OS2	E9/125	APC 8°	LC	Plastic housing, green	6xLC-DX	1
57B0 0122329/6	OM2	G50/125	PC	LC	Plastic housing, beige	6xLC-DX	
57B0 0123329/6	OM3	G50/125	PC	LC	Plastic housing, aqua	6xLC-DX	
57B0 0124329/6	OM4	G50/125	PC	LC	Plastic housing, heather violet	6xLC-DX	

[Additional designs on request](#)

CobiNet splice box OD 12

Design 3x LC Quad

- Colour code as per IEC 60304 (12 colours)
- Incl. distribution plate 3x LD-QD
- Equipped with 12x LC pigtails
- Cover locking hook with option of sealing
- Installation of a profile half-cylinder for integration in your locking system
- Protection class as per IEC 60529: IP54-protected
- Assembly and fixing for gas/water blockers



2

Item number	Fibre quality	Fibre thickness	Polish type	Coupling	Coupling housing material	Number of couplings	Fig.
57B0 0112239/3	OS2	E9/125	PC	LC	Plastic housing, blue	3x LC-QD	2
57B0 0112139/3	OS2	E9/125	APC 8°	LC	Plastic housing, green	3x LC-QD	
57B0 0122339/3	OM2	G50/125	PC	LC	Plastic housing, beige	3x LC-QD	
57B0 0123349/3	OM3	G50/125	PC	LC	Plastic housing, aqua	3x LC-QD	
57B0 0124349/3	OM4	G50/125	PC	LC	Plastic housing, heather violet	3x LC-QD	

[Additional designs on request](#)

CobiNet splice box OD 24

Design 6x LC Quad

- Colour code as per IEC 60304 (12 colours)
- Incl. distribution plate 6x LD-QD
- Equipped with 24x LC pigtails
- Cover locking hook with option of sealing
- Installation of a profile half-cylinder for integration in your locking system
- Protection class as per IEC 60529: IP54-protected
- Assembly and fixing for gas/water blockers



1

Item number	Fibre quality	Fibre thickness	Polish type	Coupling	Coupling housing material	Number of couplings	Fig.
57B0 0112239/6	OS2	E9/125	PC	LC	Plastic housing, blue	6x LC-QD	1
57B0 0112139/6	OS2	E9/125	APC 8°	LC	Plastic housing, green	6x LC-QD	
57B0 0122339/6	OM2	G50/125	PC	LC	Plastic housing, beige	6x LC-QD	
57B0 0123349/6	OM3	G50/125	PC	LC	Plastic housing, aqua	6x LC-QD	
57B0 0124349/6	OM4	G50/125	PC	LC	Plastic housing, heather violet	6x LC-QD	

 Additional designs on request

Splice boxes and distributor housings OD 12

CobiNet splice box OD 12

Design: 9x SC Simplex

- Colour code as per IEC 60304 (12 colours)
- Incl. distribution plate 9x SC-SX
- Equipped with 9x SC pigtails
- Cover locking hook with option of sealing
- Installation of a profile half-cylinder for integration in your locking system
- Protection class as per IEC 60529: IP54-protected
- Assembly and fixing for gas/water blockers



1

Item number	Fibre quality	Fibre thickness	Polish type	Coupling	Coupling housing material	Number of couplings	Fig.
57B0 0112212/9	OS2	E9/125	PC	SC	Plastic housing, blue	9x SC-SX	1
57B0 0112112/9	OS2	E9/125	APC 8°	SC	Plastic housing, green	9x SC-SX	
57B0 0122312/9	OM2	G50/125	PC	SC	Plastic housing, beige	9x SC-SX	
57B0 0123312/9	OM3	G50/125	PC	SC	Plastic housing, aqua	9x SC-SX	
57B0 0124312/9	OM4	G50/125	PC	SC	Plastic housing, heather violet	9x SC-SX	

[Additional designs on request](#)

CobiNet splice box OD 12

Design: 6x SC Duplex

- Colour code as per IEC 60304 (12 colours)
- Incl. distribution plate 6x SC-DX
- Equipped with 12x SC pigtails
- Cover locking hook with option of sealing
- Installation of a profile half-cylinder for integration in your locking system
- Protection class as per IEC 60529: IP54-protected
- Assembly and fixing for gas/water blockers



2

Item number	Fibre quality	Fibre thickness	Polish type	Coupling	Coupling housing material	Number of couplings	Fig.
57B0 0112222/6	OS2	E9/125	PC	SC	Plastic housing, blue	6x SC-DX	2
57B0 0112122/6	OS2	E9/125	APC 8°	SC	Plastic housing, green	6x SC-DX	
57B0 0122322/6	OM2	G50/125	PC	SC	Plastic housing, beige	6x SC-DX	
57B0 0123322/6	OM3	G50/125	PC	SC	Plastic housing, aqua	6x SC-DX	
57B0 0124322/6	OM4	G50/125	PC	SC	Plastic housing, heather violet	6x SC-DX	

[Additional designs on request](#)

CobiNet splice box OD 24

Design: **12x SC Duplex**

- Colour code as per IEC 60304 (12 colours)
- Incl. distribution plate 12x SC-DX
- Equipped with 24x SC pigtails
- Cover locking hook with option of sealing
- Installation of a profile half-cylinder for integration in your locking system
- Protection class as per IEC 60529: IP54-protected
- Assembly and fixing for gas/water blockers



Item number	Fibre quality	Fibre thickness	Polish type	Coupling	Coupling housing material	Number of couplings	Fig.
57B0 0112222/12	OS2	E9/125	PC	SC	Plastic housing, blue	12x SC-DX	
57B0 0112122/12	OS2	E9/125	APC 8°	SC	Plastic housing, green	12x SC-DX	1
57B0 0122322/12	OM2	G50/125	PC	SC	Plastic housing, beige	12x SC-DX	
57B0 0123322/12	OM3	G50/125	PC	SC	Plastic housing, aqua	12x SC-DX	
57B0 0124322/12	OM4	G50/125	PC	SC	Plastic housing, heather violet	12x SC-DX	

 Additional designs on request

Fibre-optic technology

Splice boxes and distributor housings OD 12

CobiNet splice box OD 12 Design: 9x E2000® Simplex

- Colour code as per IEC 60304 (12 colours)
- Incl. distribution plate 9x E-2000® SX
- Equipped with 9x E2000® SX pigtails
- Cover locking hook with option of sealing
- Installation of a profile half-cylinder for integration in your locking system
- Protection class as per IEC 60529: IP54-protected
- Assembly and fixing for gas/water blockers



1

Item number	Fibre quality	Fibre thickness	Polish type	Coupling	Coupling housing material	Number of couplings	Fig.
57B0 0112215/9	OS2	E9/125	PC	E2000®	Plastic housing, blue	9x E2000® SX	
57B0 0112115/9	OS2	E9/125	APC 8°	E2000®	Plastic housing, green	9x E2000® SX	1

 Additional designs on request

CobiNet splice box OD 12 Design: 6x E2000® Duplex

- Colour code as per IEC 60304 (12 colours)
- Incl. distribution plate 6x E-2000®- X
- Equipped with 6x E2000® DX pigtails
- Cover locking hook with option of sealing
- Installation of a profile half-cylinder for integration in your locking system
- Protection class as per IEC 60529: IP54-protected
- Assembly and fixing for gas/water blockers



2

Item number	Fibre quality	Fibre thickness	Polish type	Coupling	Coupling housing material	Number of couplings	Fig.
57B0 0112225/6	OS2	E9/125	PC	E2000®	Plastic housing, blue	6x E2000® DX	
57B0 0112125/6	OS2	E9/125	APC 8°	E2000®	Plastic housing, green	6x E2000® DX	2

 Additional designs on request

CobiNet splice box OD 12 unequipped

- Dimensions (W x H x D): 200 x 235 x 67 mm
- RAL 7035 (light grey)

Item	Item no.	Fig.
Splice box OD 12 unequipped	57B0 0100000	1



1

CobiNet splice box OD 12 unequipped, with profile half-cylinder

- With profile half-cylinder
- Dimensions (W x H x D): 200 x 235 x 67 mm
- RAL 7035 (light grey)

Item	Item no.	Fig.
Splice box OD 12 unequipped	57B0 0100000/P	2



2

Profile half-cylinder with round cylinder

- Length: 40 mm
- For installation in OD 12/OD 24

Item	Item no.	Fig.
Locking mechanism: EK 333 With 2 keys	3060 121	3



3

Pole mounting kit for splice box OD 12/OD 24

- Suitable for lamp posts or flagpoles with a diameter of 60 to 215 mm

Item	Item no.	Fig.
Pole mounting kit for splice box OD 12/OD 24	57B9 0000001	4



4

Sample application

Fibre-optic technology

Fibre-optic distributor accessories

CobiNet fibre-optic outlet, modular

- Clip and screw latching of the adapter plates
- Central plate 50 x 50 mm
- Incl. 9 adapter plates for ST, FC, DIN, SC Simplex, SC Duplex, E-2000® Simplex, LC Duplex, LC Quad, MTRJ and dummy plate
- RAL 9010 (pure white)



Item	Item no.	Fig.
Modular fibre-optic outlet	5041 186	

CobiNet fibre-optic warning sign, mini pictogram

- Mini "laser" pictogram
- As per BGV A8 and DIN 4844-2
- Side length: 23 mm



2

Item	Item no.	Fig.
Fibre-optic warning sign, mini pictogram	5060 046	2

CobiNet dummy plug

- For covering coupling break-outs that are not needed



3

Item	Item no.	Fig.
Dummy plug for SC-SX/E-2000® SX/LC-DX	5060 220	
Dummy plug for SC-DX/LC-QD	5060 216	
Dummy plug for ST/DIN/FC	5060 217	3
Dummy plug for E-2000® DX	5060 230	

CobiNet surface-mounted frame

- For extending flush-mounted outlets to include surface-mounted outlets
- DIN rail assembly possible
- Depth: 40 mm
- RAL 9010 (pure white)



4

Item	Item no.	Fig.
Surface-mounted frame	5041 176	4

CobiNet cable gland

- Protection class: IP65, 5 bar/1 h
- Polyamide
- Incl. counter nuts
- RAL 7035 (light grey)



5

Item	Item no.	Fig.
Cable gland M20x1.5 Sealing area 6-13 mm	5060 042	
Cable gland M25x1.5 Sealing area 9-17 mm	5060 044	5

CobiNet round cable clamp with snap fastener

- Model: Zetclip 500 S
- Self-adhesive
- Inner diameter: 13 mm



6

Item	Item no.	Fig.
Round cable clamp with snap fastener	6060 020	6

CobiNet strain relief tape

- Hook-and-loop tape for fixing cables
- Width: 16 mm
- Roll: 25 m
- Colour: Black

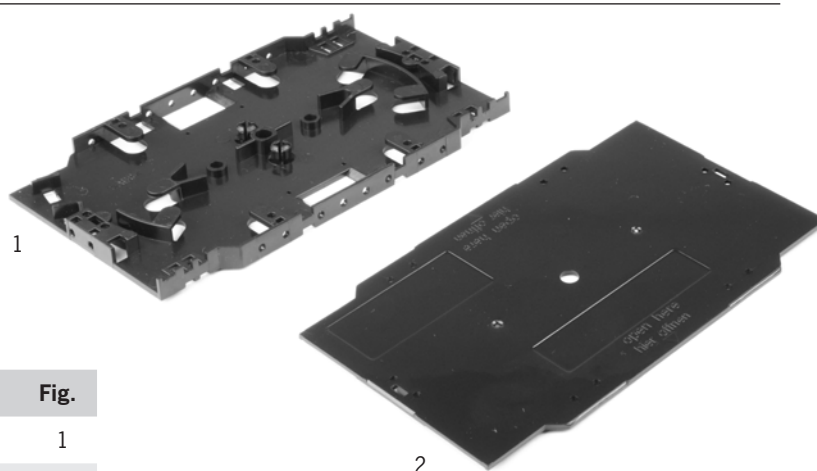


7

Item	Item no.	Fig.
Strain relief tape	5060 047	7

CobiNet fibre-optic splice cassette

- Splice cassette, radius 30 mm
- For storing up to 2x 12 crimp splice protection or 2x 6 shrink splice protection
- Stackable



Item	Item no.	Fig.
Fibre-optic splice cassette	5060 076	1
Fibre-optic splice cassette cover	5060 075	2

CobiNet splice holder

- Optimised for CobiNet fibre-optic splice cassettes

Item	Item no.	Fig.
Splice holder, 12x crimp splice protection	5060 172.1	3
Splice holder, 6x shrink splice protection	5060 169	



CobiNet splice protection

- Optimised for CobiNet splice holders
- Provides the fibres with mechanical protection in the area of the arc splice

Item	Item no.	Fig.
Crimp splice protection Metal protection, coated with a permanently elastic compound on the inside	5060 170	4
Crimp splice protection with telecoms approval Metal protection, coated with a permanently elastic compound on the inside. As per TS0338/96	5060 171	5
Shrink splice protection With metal reinforcement	5060 174	6



Fibre-optic technology

Steel plate wall-mounted distribution housings/splice boxes

CobiNet wall housing SK 8

- Unequipped fibre-optic steel plate distributor box with hinged cover for wall assembly, lockable, incl. 2 keys
- 2 opposing cable inlets with dust-proof sponge rubber modules, cables fixed in place with cable ties
- For 4 splice cassettes or 1 splice cassette and 1 distributor plate
- Incl. distributor plate 6x SC-DX/LC-QD (see below; 2021 062)
- Incl. distributor plate 12x ST/DIN/FC (see below; 2021 061)
- Dimensions (W x H x D): 150 x 265 x 55 mm
- Colour: Similar to RAL 7035 (light grey)

Item	Item no.	Fig.
Wall housing SK 8	2021 060	1



CobiNet distributor plate for SK 8

- Fibre-optic patch panel for SK 8
- Without couplings

Item	Item no.	Fig.
Distributor plate 6x SC-SX/E-2000® SX/LC-DX	2021 094	
Distributor plate 6x SC-DX/LC-QD	2021 062	2
Distributor plate 12x ST/DIN/FC	2021 061	



CobiNet wall housing SK 24

- Unequipped fibre-optic steel plate distributor box with cover for wall assembly, lockable, incl. 2 keys
- 4 cable inlets with dust-proof sponge rubber modules, cables fixed in place with cable ties
- For 8 splice cassettes or 4 splice cassettes and 1 distributor plate
- Without distributor plate
- Dimensions (W x H x D): 320 x 280 x 54 mm
- Colour: Similar to RAL 7035 (light grey)

Item	Item no.	Fig.
Wall housing SK 24	2021 063	3



CobiNet distributor plate for SK 24

- Fibre-optic patch panel for SK 24
- Without couplings

Item	Item no.	Fig.
Distributor plate 24x SC-SX/E-2000® SX/LC-DX	2021 066	
Distributor plate 12x SC-DX/LC-QD	2021 067	4
Distributor plate 24x ST/DIN/FC	2021 064	



Steel plate wall-mounted distribution housings/splice boxes

CobiNet wall housing SK 48

- Unequipped fibre-optic steel plate distributor box with 2 swing doors, lockable, 2 different locks, incl. 2 keys each
- 2 cable entry openings at both the top and bottom for PG16
- 2 cable inlets with dust-proof sponge rubber modules, cables fixed in place with cable ties
- For 4 splice cassettes and 1 distributor plate or 8 splice cassettes
- Without distributor plate
- Dimensions (W x H x D): 445 x 445 x 95 mm
- Colour: Similar to RAL 7035 (light grey)

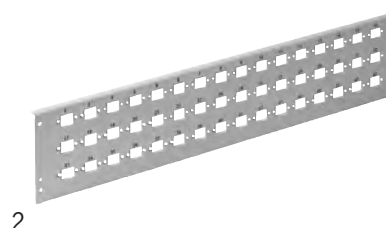
Item	Item no.	Fig.
Wall housing SK 48	2021 056	1



CobiNet distributor plate for SK 48

- Fibre-optic patch panel for SK 48
- Without couplings

Item	Item no.	Fig.
Distributor plate 48x SC-SX/E-2000® SX/LC-DX	2021 058	2
Distributor plate 24x SC-DX/LC-QD	2021 059	
Distributor plate 48x ST/DIN/FC	2021 057	



Plastic wall-mounted distribution housings/splice boxes

Wall housing KS 48 for surface-mounted assembly

- Equipped fibre-optic plastic distributor box for wall assembly, with removable cover, lockable, incl. 1 key
- Suitable as an external and internal distributor
- Cable inlets at the top and bottom with through-wall bushings
- For 4 splice cassettes and 1 distributor plate
- Circumferential fibre-guidance brackets
- Protection class: IP54
- Dimensions (W x H x D): 205 x 319 x 118 mm
- Colour: Similar to RAL 7035 (light grey)

✓ Ready-to-assemble delivery!

3



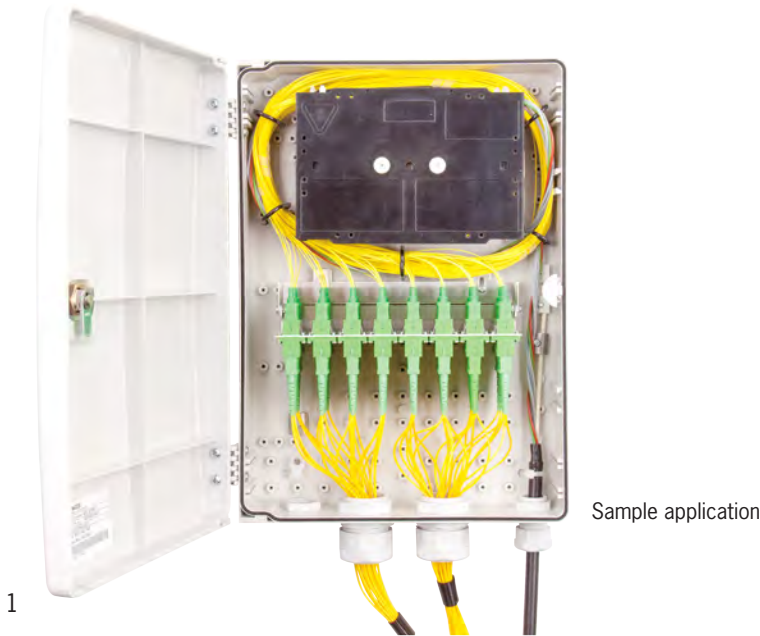
Item	Item no.	Fig.
Wall housing KS 48 with distributor plate 24x SC-SX/E-2000® SX/LC-DX Incl. 1 splice cassette with cover and 1 crimp splice holder	2021 043/AP	3
Wall housing KS 48 with distributor plate 12x SC-DX/LC-QD Incl. 1 splice cassette with cover and 1 crimp splice holder	2021 047/AP	
Wall housing KS 48 with distributor plate 24x ST/DIN/FC Incl. 1 splice cassette with cover and 1 crimp splice holder	2021 041/AP	
Wall housing KS 48, unequipped	2021 045/AP	

Fibre-optic technology

Fibre-optic plastic distributor boxes

CobiNet fibre-optic plastic distributor box FttH 48

- With lockable door
- Unequipped for 48x SC-SX, 48x E-2000® SX, 24x LC-DX
- 2 splice cassettes with cover and crimp splice holder for up to 48 splices
- Surface-mounted assembly
- Protection class IP54
- Dimensions (W x H x D): 250 x 380 x 90 mm
- RAL 7035 (light grey)



Item	Item no.	Fig.
Fibre-optic plastic distributor box FttH SK 48	2021 097	1

CobiNet fibre-optic plastic distributor box FttH 2-8

- With lockable cover
- Unequipped for 2x SC-DX, 2x LC-QD or 4x E-2000® SX
- 1 swivelling splice cassette with cover and crimp splice holder for up to 12 splices
- Surface-mounted assembly
- Protection class IP54
- Dimensions (W x H x D): 235 x 156 x 45 mm
- RAL 7035 (light grey)

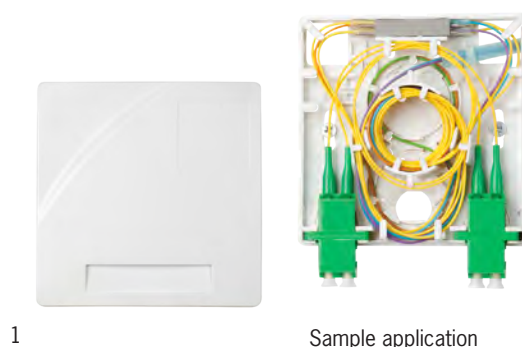


Item	Item no.	Fig.
Fibre-optic plastic distributor box FttH SK 4	2021 096	2

CobiNet fibre-optic outlet FttH 2-4

- Unequipped for 2x SC-SX, 2xLC-DX
- Surface-mounted assembly
- Dimensions (W x H x D): 81 x 81 x 25 mm
- Similar to RAL 9010 (pure white)

Item	Item no.	Fig.
Fibre-optic outlet FttH	2021 095	1



CobiNet fibre-optic outlet W01

- Fibre-glass connection unit for dado trunking or underfloor assembly
- Unequipped for Simplex or Duplex adapters
- Angled outlet tilted 10° downwards
- Option of strain relief using cable ties
- Inspection window for labelling insert
- Suitable for a pre-assembled cable, on-site connector assembly or spliced pigtails (when using the optional excess cable length storage and splice tray)
- Horizontal/vertical fastening, 60 mm fastening track
- Colour of the cover parts: Similar to RAL 9010 (pure white)

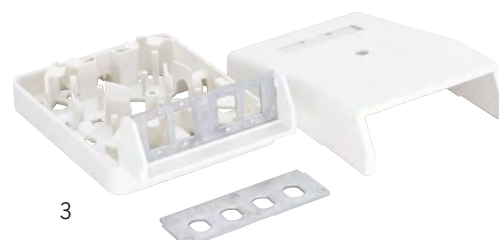
Item	Item no.	Fig.
Fibre-optic outlet W01 for 2x LC-DX, SC-SX	57A1 0001	2
Fibre-optic outlet W01 for 2x SC-DX	57A1 0011	
Fibre-optic outlet W01 for 4x ST/FC/DIN	57A1 0021	



CobiNet fibre-optic outlet W02

- Fibre-glass connection unit for surface-mounted and duct assembly
- Compliance with the bend radius of approx. 30 mm thanks to integrated excess cable length storage
- Unequipped for Simplex or Duplex adapters
- Angled outlet tilted 10° downwards
- Option of strain relief using cable ties
- Inspection window for labelling insert
- Suitable for pre-assembled cables and on-site connector assembly
- Colour of the cover parts: Similar to RAL 9010 (pure white)

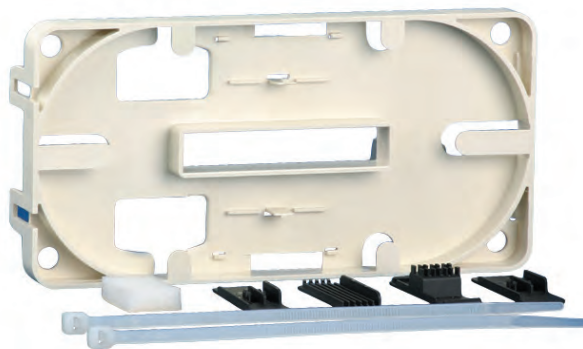
Item	Item no.	Fig.
Fibre-optic outlet W02 for 2x LC-DX, SC-SX	57A2 0001	3
Fibre-optic outlet W02 for 2x SC-DX	57A2 0011	
Fibre-optic outlet W02 for 4x ST/FC/DIN	57A2 0021	



Fibre-optic outlets

CobiNet splice tray W01

- For excess cable length storage W01
- For the protected accommodation of up to 4 fusion splices
- Can be snapped onto the excess cable length storage
- Compliance with the minimum bend radii for fibre-optic cables as per EIA/TIA 568 A (> 30 mm)

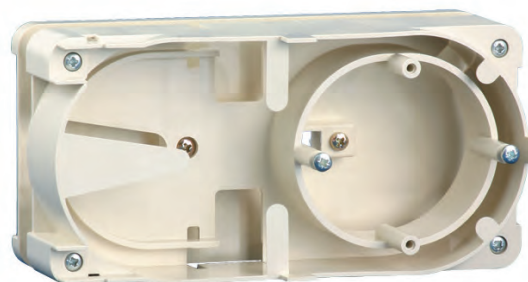


1

Item	Item no.	Fig.
Splice tray W01	57A1 0050	1

CobiNet excess cable length storage W01

- For fibre-optic outlet W01 for dado trunking assembly
- For the protected accommodation of assembly-related excess cable lengths and safety reserves
- For horizontal or vertical installation in dado trunking; T-groove fastening
- Suitable for use with pre-assembled cables, for the splicing of fibre pigtails and for the on-site assembly of fibre-optic connectors
- Compliance with the minimum bend radii for fibre-optic cables as per EIA/TIA 568 A (> 30 mm), input and output side
- Direction-independent cable entry with cable tie strain relief



2

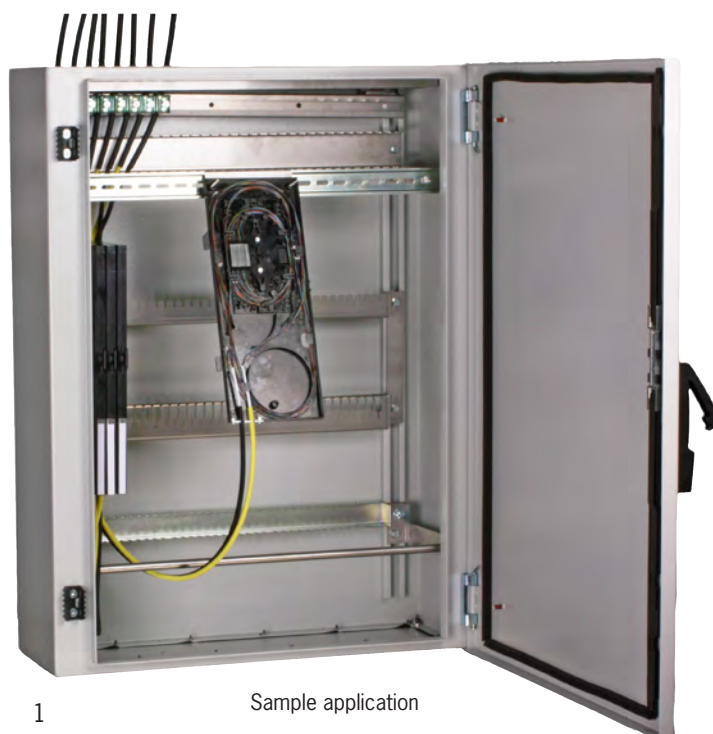
Item	Item no.	Fig.
Excess cable length storage W01 for OBO/Bettermann ISS133, TEHALIT system FB	57A1 0030	2
Excess cable length storage W01 for KR 55 for TEHALIT system BR	57A1 0040	

Steel plate wall-mounted distribution housings/splice boxes WVF

CobiNet wall-mounted splice box WVF #2

- Unequipped, closed fibre-optic steel plate distribution cabinet with mounting rails for cassette housing (see below)
- Door with swivelling lever handle for profile half-cylinder and 2-point locking rod, incl. double bit insert
- Protection class: IP40, can be upgraded to IP54 with upgrade kit; see below
- Space-saving fibre protection duct (corrugated pipe, black for incoming cables, yellow for outgoing cables), enclosed in sufficient length
- Colour: Similar to RAL 7035 (light grey)
- Cable entry: From above; also possible from below (set up at the factory) on request.

Item	Item no.	Fig.
Wall-mounted splice box WVF #2 432	2040 110	1
Mounting rails for 36 x 12 cassette case (432 fibres)		
Dimensions (W x H x D): 600 x 800 x 227 mm		
Wall-mounted splice box WVF #2 576	2040 111	
Mounting rails for 48 x 12 cassette case (576 fibres)		
Dimensions (W x H x D): 800 x 800 x 227 mm		



1

Sample application

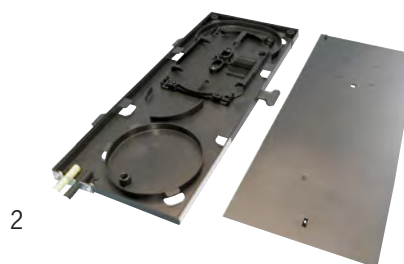


Ready-to-assemble delivery!

CobiNet fibre-optic cassette housing for WVF

- With splice cassette
- Metallic cable entry point
- Excess fibre length storage in cassette case
- Labelling field

Item	Item no.	Fig.
Fibre-optic cassette housing for WVF	5061 048	2



2

CobiNet IP upgrade kit IP54

- With splice cassette
- Metallic cable entry point
- Excess fibre length storage in cassette case
- Labelling field

Item	Item no.	Fig.
IP upgrade kit IP54 for WVF #2 432	2040 999/9	
IP upgrade kit IP54 for WVF #2 576	2040 999/10	

DIN rail splice boxes

CobiNet DIN rail splice box DRK for 35 mm DIN rail

- Empty housing incl. splice cassette, splice holder and M20 cable gland
- For up to 12 splices
- The front panel with splice cassette can be fully removed for splicing
- Prepared for the accommodation of DRK front panels
- Cable feed from above or below, prepared for M20 cable gland (enclosed)
- Dimensions (W x H x D): 61 x 115 x 113 mm
- RAL 7035 (light grey)

Item	Item no.	Fig.
DIN rail splice box DRK for 35 mm DIN rail	5820 0300 000	1



Assembly example

Front panel DRK 6x SC-DX

- Front panel for DIN rail splice box DRK
- 6x SC-DX
- Incl. numbering
- RAL 7035 (light grey)

Item	Item no.	Fig.
Front panel DRK 6x SC-DX	5820 0300 001	1



Front panel DRK 6x LC-DX

- Front panel for DIN rail splice box DRK
- 6x SC-SX, LC-DX, E-2000® SX
- Incl. numbering
- RAL 7035 (light grey)

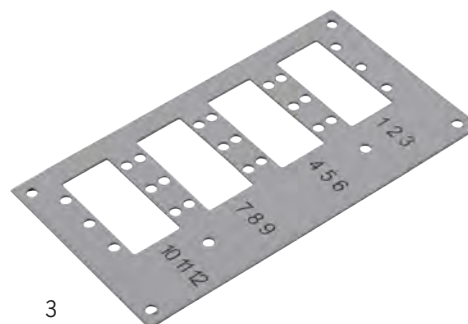
Item	Item no.	Fig.
Front panel DRK 6x LC-DX	5820 0300 002	2



Front panel DRK 12x SC-SX

- Front panel for DIN rail splice box DRK
- 12x SC-SX, E-2000® SX
- Incl. numbering
- RAL 7035 (light grey)

Item	Item no.	Fig.
Front panel DRK 12x LC-DX	5820 0300 003	3



Adapters/couplings

Adapters/couplings

Adapters and couplings connect two fibre-optic connectors. The couplings are made up of a coloured plastic housing in female-female design, as well as a ceramic guide sleeve for single-mode and multi-mode fibres.

CobiNet couplings are used wherever fibre-optic cables need to be connected and/or patched.

CobiNet fibre-optic couplings

Design: LC-LC Duplex

- Sleeve material: Ceramic
- Screw and snap-in fastening



1

Item number	Suitable for fibre quality	Suitable for fibre type	Polish type	Housing colour	Housing material	Design	Fig.
5811 3992000	OS2	E9/125	PC	Blue	Plastic	Duplex	
5811 2992000	OS2	E9/125	APC 8°	Green	Plastic	Duplex	1
5812 5992000	OM2	G50/125	PC	Beige	Plastic	Duplex	
5812 6992000	OM3	G50/125	PC	Aqua	Plastic	Duplex	
5812 4992000	OM4	G50/125	PC	Heather violet	Plastic	Duplex	

CobiNet fibre-optic couplings

Design: LC-LC Quad

- Sleeve material: Ceramic
- Screw and snap-in fastening



2

Item number	Suitable for fibre quality	Suitable for fibre type	Polish type	Housing colour	Housing material	Design	Fig.
5811 3994000	OS2	E9/125	PC	Blue	Plastic	Quad	
5811 2994000	OS2	E9/125	APC 8°	Green	Plastic	Quad	2
5812 5994000	OM2	G50/125	PC	Beige	Plastic	Quad	
5812 6994000	OM3	G50/125	PC	Aqua	Plastic	Quad	
5812 4994000	OM4	G50/125	PC	Heather violet	Plastic	Quad	

Fibre-optic couplings

Design: SC-SC Simplex

- Sleeve material: Ceramic
- Screw and snap-in fastening



1

Item number	Suitable for fibre quality	Suitable for fibre type	Polish type	Housing colour	Housing material	Design	Fig.
5811 3221000	OS2	E9/125	PC	Blue	Plastic	Simplex	
5811 2221000	OS2	E9/125	APC 8°	Green	Plastic	Simplex	1
5812 5221000	OM2	G50/125	PC	Beige	Plastic	Simplex	
5812 6221000	OM3	G50/125	PC	Aqua	Plastic	Simplex	
5812 4221000	OM4	G50/125	PC	Heather violet	Plastic	Simplex	

Fibre-optic couplings

Design: SC-SC Duplex

- Sleeve material: Ceramic
- Screw and snap-in fastening



2

Item number	Suitable for fibre quality	Suitable for fibre type	Polish type	Housing colour	Housing material	Design	Fig.
5811 3222000	OS2	E9/125	PC	Blue	Plastic	Duplex	
5811 2222000	OS2	E9/125	APC 8°	Green	Plastic	Duplex	2
5812 5222000	OM2	G50/125	PC	Beige	Plastic	Duplex	
5812 6222000	OM3	G50/125	PC	Aqua	Plastic	Duplex	
5812 4222000	OM4	G50/125	PC	Heather violet	Plastic	Duplex	

CobiNet fibre-optic couplings

Design: SC-ST

- Sleeve material: Ceramic
- Screw and snap-in fastening



1

Item number	Suitable for fibre quality	Suitable for fibre type	Polish type	Housing colour	Housing material	Design	Fig.
5811 0122000	OS2 and OM1, 2, 3, 4	E9/125 and G50/125	PC	Silver	Metal	Duplex	1

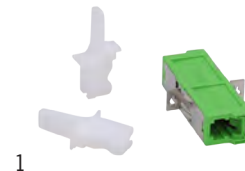
Fibre-optic technology

Adapters/couplings

CobiNet fibre-optic couplings

Design: E2000® - E2000® Simplex

- Sleeve material: Ceramic
- Screw and snap-in fastening



Item number	Suitable for fibre quality	Suitable for fibre type	Polish type	Housing colour	Housing material	Design	Fig.
5811 3551000	OS2	E9/125	PC	Blue	Plastic	Simplex	
5811 2551000	OS2	E9/125	APC 8°	Green	Plastic	Simplex	1

CobiNet fibre-optic couplings

Design: E2000® - E2000® Duplex

- Sleeve material: Ceramic
- Screw and snap-in fastening



Item number	Suitable for fibre quality	Suitable for fibre type	Polish type	Housing colour	Housing material	Design	Fig.
5811 3552000	OS2	E9/125	PC	Blue	Plastic	Duplex	
5811 2552000	OS2	E9/125	APC 8°	Green	Plastic	Duplex	2

CobiNet fibre-optic couplings

Design: ST

- Sleeve material: Ceramic
- Screw and snap-in fastening



Item number	Suitable for fibre quality	Suitable for fibre type	Polish type	Housing colour	Housing material	Design	Fig.
5811 0111000	OS2 and OM1, 2, 3, 4	E9/125 and G50/125	PC	Silver	Metal	Simplex	2

Pigtails

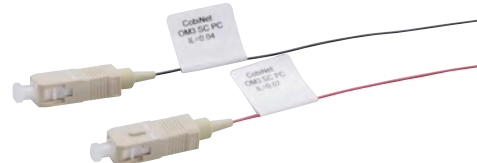
A pigtail is a compact connector that has one side assembled with a male connector and the other side unassembled.

Pigtails are used in passive building technology, such as in 19" splice boxes.

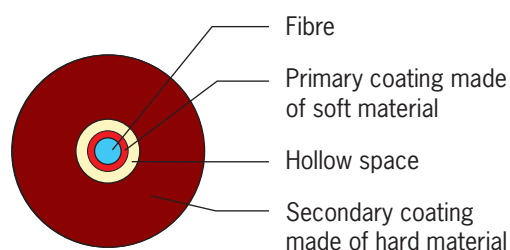
The unassembled side of the pigtail is directly spliced onto a fibre of the installation cable (fibre-fibre splice, inseparable connection of two glass fibres) and is then placed into a splice tray/cassette with protection.

Structure

- Set (12 pcs)
- 0.9 mm compact connectors with a male connector fitted on one side
- Primary coating 250 μm and secondary coating 900 μm are fully dyed through as per DIN VDE 0888
- The connectors can be stripped back by up to a metre in one go
- Length: 2.0 m
- Scope of delivery: 2x 6 in a poly bag
- Incl. measurement report on the pigtail



Cable structure of a fibre-optic compact connector



- Fibre
- Primary coating made of soft material
- Hollow space
- Secondary coating made of hard material

Fibre-optic fibre pigtails

Fibre-optic fibre pigtails

Design: LC

- Set (12 pcs)
- 0.9 mm compact connectors with a male connector fitted on one side
- For splitting multi-core cables using splicing technology
- The connectors can be stripped back by up to a metre in one go
- Colour code as per DIN VDE 0888
- Length: 2.0 m



1

Item number	Fibre quality	Fibre type	Polish type	Fig.
F910B9200/2.0	OS2	E9/125	PC	1
F910B9100/2.0	OS2	E9/125	APC 8°	
F910D9200/2.0	OM2	G50/125	PC	
F910E9200/2.0	OM3	G50/125	PC	
F910F9200/2.0	OM4	G50/125	PC	

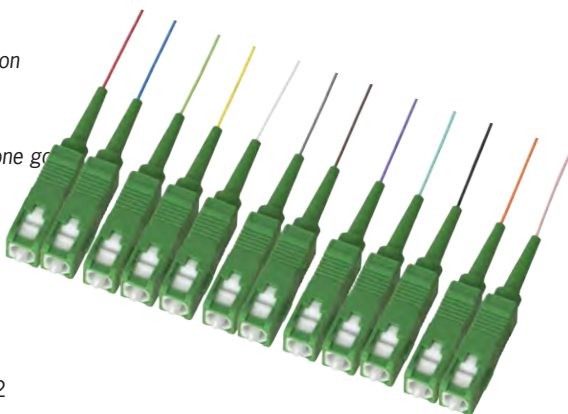


Other lengths
on request

Fibre-optic fibre pigtails

Design: SC

- Set (12 pcs)
- 0.9 mm compact connectors with a male connector fitted on one side
- For splitting multi-core cables using splicing technology
- The connectors can be stripped back by up to a metre in one go
- Colour code as per DIN VDE 0888
- Length: 2.0 m



2

Item number	Fibre quality	Fibre type	Polish type	Fig.
F910B2200/2.0	OS2	E9/125	PC	2
F910B2100/2.0	OS2	E9/125	APC 8°	
F910D2200/2.0	OM2	G50/125	PC	
F910E2200/2.0	OM3	G50/125	PC	
F910F2200/2.0	OM4	G50/125	PC	

Fibre-optic fibre pigtails

Design: E2000®

- Set (12 pcs)
- 0.9 mm compact connectors with a male connector fitted on one side
- For splitting multi-core cables using splicing technology
- The connectors can be stripped back by up to a metre in one go
- Colour code as per DIN VDE 0888
- Length: 2.0 m



1

Item number	Fibre quality	Fibre type	Polish type	Fig.
F910B5200/2.0	OS2	E9/125	PC	1
F910B5100/2.0	OS2	E9/125	APC 8°	
F910D5200/2.0	OM2	G50/125	PC	
F910E5200/2.0	OM3	G50/125	PC	
F910F5200/2.0	OM4	G50/125	PC	



Single-colour sets available on request

Fibre-optic fibre pigtails

Design: ST

- Set (12 pcs)
- 0.9 mm compact connectors with a male connector fitted on one side
- For splitting multi-core cables using splicing technology
- The connectors can be stripped back by up to a metre in one go
- Colour code as per DIN VDE 0888
- Length: 2.0 m



2

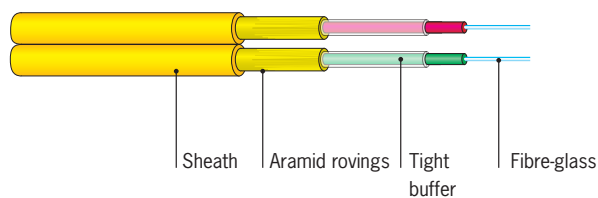
Item number	Fibre quality	Fibre type	Polish type	Fig.
F910B1200/2.0	OS2	E9/125	PC	2
F910D1200/2.0	OM2	G50/125	PC	
F910E1200/2.0	OM3	G50/125	PC	
F910F1200/2.0	OM4	G50/125	PC	

Fibre-optic technology

Fibre-optic patch cables

Fibre-optic tight buffer patch cable

Indoor cable, Duplex Form-8 I-V (ZN) HH



Application

Patch cables are also referred to as jumper cables, and are a type of cable used in telecommunications.

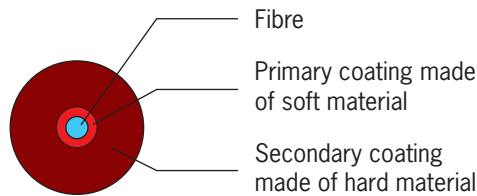
Patch cables are used to connect active technology, to patch between patch panels (cross-connect) and to connect end devices.



Structure

- I-V (ZN) HH
- Duplex Form-8
- Sheath material: Halogen-free compound
- Sheath colour
 - OS2: Yellow
 - OM2: Orange
 - OM3: Aqua
 - OM4: Purple
- Max. traction force
 - During installation: 200 N
 - During operation: 50 N (SX) or 100 N (DX)
- Min. bend radius
 - During installation: 50 mm
 - During operation: 30 mm

Cable structure of a fibre-optic tight buffer cable



Fibre-optic patch cables

Design: **LC-LC**

- For jumpering in distributors or for use as a device connection cable
- Cable I-V(ZN)H tight buffer with male connectors assembled on both sides
- Duplex patch cable: Form-8 cable (MiniZip), outer sheath 2.8 x 5.6 mm
- Sheath material: LSHF (halogen-free)
- Length: See blue box on the right



1

Item number	Fibre quality	Fibre type	Polish type	Sheath colour	Design	Fig.
F711B9292/XX	OS2	E9/125	PC	Yellow	Duplex	1
F711B9191/XX	OS2	E9/125	APC 8°	Yellow	Duplex	
F717D9292/XX	OM2	G50/125	PC	Orange	Duplex	
F716E9292/XX	OM3	G50/125	PC	Aqua	Duplex	
F714F9292/XX	OM4	G50/125	PC	Purple	Duplex	



Other connector combinations available on request



When ordering, enter length instead of XX.
(Example: F711B9292/10.0 = 10 metres)
Standard lengths 1.0; 2.0; 3.0; 5.0; 7.5; 10.0; 20.0 metres

Fibre-optic patch cables

Design: **SC-SC**

- For jumpering in distributors or for use as a device connection cable
- Cable I-V(ZN)H tight buffer with male connectors assembled on both sides
- Duplex patch cable: Form-8 cable (MiniZip), outer sheath 2.8 x 5.6 mm
- Sheath material: LSHF (halogen-free)
- Length: See blue box on the right



2

Item number	Fibre quality	Fibre type	Polish type	Sheath colour	Design	Fig.
F711B2222/XX	OS2	E9/125	PC	Yellow	Duplex	
F711B2121/XX	OS2	E9/125	APC 8°	Yellow	Duplex	2
F717D2222/XX	OM2	G50/125	PC	Orange	Duplex	
F716E2222/XX	OM3	G50/125	PC	Aqua	Duplex	
F714F2222/XX	OM4	G50/125	PC	Purple	Duplex	



Other connector combinations available on request



When ordering, enter length instead of XX.
(Example: F711B2222/10.0 = 10 metres)
Standard lengths 1.0; 2.0; 3.0; 5.0; 7.5; 10.0; 20.0 metres

Fibre-optic technology

Fibre-optic patch cables

Fibre-optic patch cables

Design: **E2000® - E2000®**

- For jumpering in distributors or for use as a device connection cable
- Cable I-V(ZN)H tight buffer with male connectors assembled on both sides
- Duplex patch cable: Form-8 cable (MiniZip), outer sheath 2.8 x 5.6 mm
- Sheath material: LSHF (halogen-free)
- Length: See blue box on the right



Item number	Fibre quality	Fibre type	Polish type	Sheath colour	Design	Fig.
F711B5252/XX	OS2	E9/125	PC	Yellow	Duplex	
F711B5151/XX	OS2	E9/125	APC 8°	Yellow	Duplex	1
F717D5252/XX	OM2	G50/125	PC	Orange	Duplex	
F716E5252/XX	OM3	G50/125	PC	Aqua	Duplex	
F714F5252/XX	OM4	G50/125	PC	Purple	Duplex	



Other connector combinations
available on request



When ordering, enter length instead of XX.
(Example: F711B5252/10.0 = 10 metres)
Standard lengths 1.0; 2.0; 3.0; 5.0; 7.5; 10.0; 20.0 metres

Fibre-optic patch cables

Design: **ST-ST**

- For jumpering in distributors or for use as a device connection cable
- Cable I-V(ZN)H tight buffer with male connectors assembled on both sides
- Duplex patch cable: Form-8 cable (MiniZip), outer sheath 2.8 x 5.6 mm
- Sheath material: LSHF (halogen-free)
- Length: See blue box on the right



Item number	Fibre quality	Fibre type	Polish type	Sheath colour	Design	Fig.
F717B1212/XX	OS2	E9/125	PC	Yellow	Duplex	2
F717D1212/XX	OM2	G50/125	PC	Orange	Duplex	
F716E1212/XX	OM3	G50/125	PC	Aqua	Duplex	
F717F1212/XX	OM4	G50/125	PC	Purple	Duplex	



Other connector combinations
available on request



When ordering, enter length instead of XX.
(Example: F711B1212/10.0 = 10 metres)
Standard lengths 1.0; 2.0; 3.0; 5.0; 7.5; 10.0; 20.0 metres

Fibre-optic launch fibre box

- Delivered as a Peli case, so protected against impacts, air-tight, water-proof and dust-proof (IP67)
- Box made of highly impact-resistant polypropylene copolymer
- The connectors used are "master connectors", so are assembled particularly carefully
- All metal parts are made of stainless steel or aluminium



1

Item number	Fibre quality	Fibre type	Polish type	Connector 1	Connector 2	Length (m)	Fig.
VB2121/550	OS2	E9/125	APC 8°	SC	SC	550	
VB9191/550	OS2	E9/125	APC 8°	LC	LC	550	
VB5151/550	OS2	E9/125	APC 8°	E2000®	E2000®	550	
VB2121/1000	OS2	E9/125	APC 8°	SC	SC	1000	
VB9191/1000	OS2	E9/125	APC 8°	LC	LC	1000	1
VB5151/1000	OS2	E9/125	APC 8°	E2000®	E2000®	1000	
VD2121/150	OM2	G50/125	PC	SC	SC	150	
VD9191/150	OM2	G50/125	PC	LC	LC	150	
VD5151/150	OM2	G50/125	PC	E2000®	E2000®	150	
VD2121/500	OM2	G50/125	PC	SC	SC	500	
VD9191/500	OM2	G50/125	PC	LC	LC	500	
VD5151/500	OM2	G50/125	PC	E2000®	E2000®	500	
VE2121/150	OM3	G50/125	PC	SC	SC	150	
VE9191/150	OM3	G50/125	PC	LC	LC	150	
VE5151/150	OM3	G50/125	PC	E2000®	E2000®	150	
VE2121/500	OM3	G50/125	PC	SC	SC	500	
VE9191/500	OM3	G50/125	PC	LC	LC	500	
VE5151/500	OM3	G50/125	PC	E2000®	E2000®	500	
VF2121/150	OM4	G50/125	PC	SC	SC	150	
VF9191/150	OM4	G50/125	PC	LC	LC	150	
VF5151/150	OM4	G50/125	PC	E2000®	E2000®	150	
VF2121/500	OM4	G50/125	PC	SC	SC	500	
VF9191/500	OM4	G50/125	PC	LC	LC	500	
VF5151/500	OM4	G50/125	PC	E2000®	E2000®	500	



Launch fibres are required for all OTDR measurements, and are mandatory for acceptance measurements. They make it possible to also evaluate the first connector in the section and to reduce the dead zones.

Fibre-optic cleaning

CobiNet fibre-optic ferrule cleaner for SC/FC/ST/E2000® connectors

- Dry cleaner
- Specially designed for cleaning single-fibre connectors with 2.5 mm ferrules and PC, UPC and APC polish
- Non-slip housing stops the hand from slipping during cleaning
- Anti-static
- Incl. protective cap

Item	Item no.	Fig.
Fibre-optic ferrule cleaner for 800 cleaning cycles, dim. (L x H x D): 185 x 25 x 25 mm	8010 131	1
Fibre-optic ferrule cleaner for 600 cleaning cycles, dim. (L x H x D): 110 x 30 x 18 mm	8010 133	
Fibre-optic ferrule cleaner for 400 cleaning cycles, dim. (L x H x D): 185 x 25 x 25 mm	8010 135	



CobiNet fibre-optic ferrule cleaner for LC/MPO connectors

- Dry cleaner
- Specially designed for cleaning single-fibre connectors with 1.25 mm ferrules and PC, UPC and APC polish
- Non-slip housing stops the hand from slipping during cleaning
- Anti-static
- Incl. protective cap

Item	Item no.	Fig.
Fibre-optic ferrule cleaner for 800 cleaning cycles, dim. (L x H x D): 185 x 25 x 25 mm	8010 132	2
Fibre-optic ferrule cleaner for 600 cleaning cycles, dim. (L x H x D): 110 x 30 x 18 mm	8010 134	
Fibre-optic ferrule cleaner for 400 cleaning cycles, dim. (L x H x D): 185 x 25 x 25 mm	8010 136	



CobiNet alcohol dispenser

- Lockable pad moistener

Item	Item no.	Fig.
Alcohol dispenser	8010 054	3



CobiNet paper cleaning towels

- For cleaning fibres
- 1 pack = 280 pcs

Item	Item no.	Fig.
Paper cleaning towels	8010 057	4



CobiNet fibre-optic cleaning cassette

- With replaceable cleaning tape
- Made of special anti-static microfibre fabric
- For single use
- Dry cleaner
- Specially designed for cleaning all standard fibre-optic connector types (apart from male MTRJ connectors)
- Non-slip housing stops the hand from slipping during cleaning
- 600 stamp-cleaning cycles
- No need for any additional cleaning liquid such as alcohol
- Anti-static
- Incl. protective cap

Item	Item no.	Fig.
Fibre-optic cleaning cassette	8010 139	1

1



CobiNet fibre-optic cleaning tape

- For CobiNet fibre-optic cleaning cassette 8010 139
- Made of special anti-static microfibre fabric
- For single use
- 600 stamp-cleaning cycles
- No need for any additional cleaning liquid such as alcohol
- Anti-static

Item	Item no.	Fig.
Fibre-optic cleaning tape	8010 140	2

2



CobiNet fibre-optic cleaning swabs

- For cleaning connector end faces in the coupling
- Cleaning without alcohol
- Special foam picks up and binds dirt
- 1 kit = 50 pcs

Item	Item no.	Fig.
Fibre-optic cleaning swabs	8010 050	4

4



Fibre-optic tools

CobiNet fibre-optic Kevlar® scissors

- Fine-toothed cutting blade
- Reduces slippage for improved cutting effect

Item	Item no.	Fig.
Fibre-optic Kevlar® scissors	8010 097	1



CobiNet fibre-optic stripping tool

- 900 µm
- Secondary coating: Ø 0.6-1.1 mm

Item	Item no.	Fig.
Fibre-optic stripping tool, 900 µm	8010 051	1



CobiNet fibre-optic stripping tool

- 250 µm
- Primary coating: Ø 0.18-0.30 mm

Item	Item no.	Fig.
Fibre-optic stripping tool, 250 µm	8010 052	1



Fibre-optic Clauss stripping pliers CFS-2

- The first opening precisely strips the 250 µm or 500 µm coating and the 900 µm fibre protection.
- Additional openings strip cable sheaths with diameters of up to 3 mm

Item	Item no.	Fig.
Fibre-optic Clauss stripping pliers CFS-2	8010 049	1



Fibre-optic Clauss stripping pliers WS-5

- For stripping diameters from 0.8 to 2.6 mm

Item	Item no.	Fig.
Fibre-optic Clauss stripping pliers WS-5	8010 056	1



Fibre-optic Miller stripping pliers

- For stripping the 250 µm fibre coating
- Precise 127 µm groove
- No adjustment required

Item	Item no.	Fig.
Fibre-optic Miller stripping pliers	8010 055	1



Notes

Make plans with us

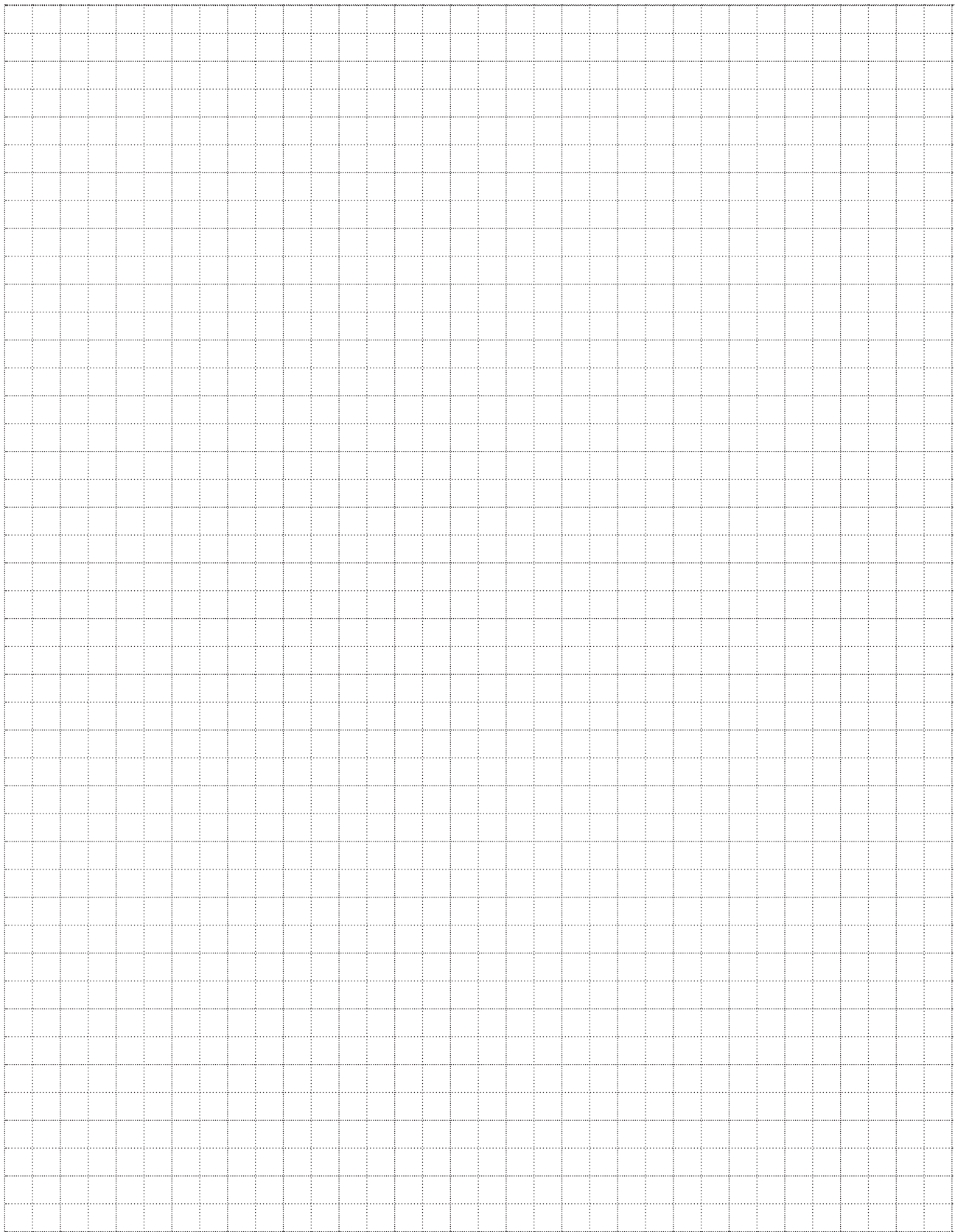


Table of contents – data/network cabinets

CobiNet

Data/network cabinets

	Page
Network cabinets	150
Classic network cabinets	150
Pro network cabinets	151
Pro network cabinets with swing frame	152
Server cabinets	153
Server cabinets (Server) with perforated back door	153
Server cabinets (Server) with perforated front and back door	154
Lab rack (Lab)	155
Wall housings	156
Wall B wall housing, 1-part	156
Wall P wall housing, 3-part with swivelling central part	157
Wall F wall housing, flexible as an assembly kit	158
Wall V wall housing for vertical installation	159
Mini wall housing 10" (width: 254 mm) as an assembly kit	159
Accessories	160
Stacking kit for Pro/Server	160
Switching cabinet lights	160
Door contact switch	160
Potential equalisation rails/earth bars	160
Shelves/keyboard compartment	161
Document compartment	162
Cable routing bracket	163
Front panels	163
Sliding rails	164
Front panels with cable feed-through	164
Supporting rails	165
Vertical cable channel with cable cover	165
Ventilation/thermostat	166
Cooling units	167
Double castors/levelling feet	167
Base	168
Mounting kit	168
Socket strips	169

Data/network cabinets

Classic network cabinets 19" (width: 482.6 mm)

CobiNet Classic network cabinet (500 kg load-bearing capacity)

- **Body:** Can be dismantled; load-bearing capacity: 500 kg
- **19" level:** Front and rear, depth-adjustable
- **Front door:** Glass door with 4 mm single-pane safety glass (parsol grey), 3-point locking mechanism and swivelling lever handle for profile half-cylinder incl. double bit insert
- **Back door:** Steel plate door, 3-point locking mechanism with swivelling lever handle incl. double bit insert and integrated document case
- **Side walls:** Made of steel plate, detachable, screwed on
- **Roof:** With brush strip and covered break-outs; fan sheets with two ventilators each can be fitted; max. number depends on cabinet depth
 - 2 pcs with 600 mm depth
 - 3 pcs with 800 mm depth
 - 4 pcs with 1000 mm depth
 - 5 pcs with 1200 mm depthIf the maximum number of fan sheets is fitted, cables will need to be inserted from below
- **Floor:** Divided into three parts, with covered break-outs; fan sheets with two ventilators each can be fitted; max. number depends on cabinet depth like the roof. If the maximum number of fan sheets is fitted, cables will need to be inserted from above
- **Cable management:** 3 cable clamp rails on both the left and the right-hand side
- **Stackability:** Using M6 screws, washers and counter nuts (not included in delivery)
- **Base:** Fitted base (height 100 mm), 3 break-out-type gill plates on each side for cable entry, 4 levelling feet enclosed, for levelling from above
- **Earthing:** Complete earthing
- **Protection class:** IP20
- **Colour:** Powder-coated RAL 7035 (light grey)



Delivery with fitted base

Different door combinations available on request: glazed, perforated, solid steel plate.

Height* (RU)	(W x D) 800 x 600 mm	(W x D) 800 x 800 mm	(W x D) 800 x 1000 mm	(W x D) 800 x 1200 mm	Fig.
1200 mm (22 RU)	-	5013 1188	-	-	
2100 mm (42 RU)	5013 2086	5013 2088	5013 2081	5013 2082	1

* Incl. base

CobiNet Pro network cabinet (1000 kg load-bearing capacity)

- **Body:** Can be dismantled; load-bearing capacity: 1000 kg
- **19" level:** Front and rear, depth-adjustable
- **Front door:** Glass door with 4 mm single-pane safety glass (parsol grey), 3-point locking mechanism and swivelling lever handle for profile half-cylinder incl. double bit insert
- **Back door:** Steel plate door, 1-point locking mechanism with swivelling lever handle incl. double bit insert and integrated document case
- **Side walls:** Made of steel plate, detachable, sealable
- **Roof:** With brush strip and covered break-outs; max. 2 fan sheets can be fitted. If the maximum number of fan sheets is fitted, cables will need to be inserted from below
- **Floor:** Divided into three parts, with covered break-outs
- **Cable management:** 2 cable clamp rails on both the left and the right-hand side
- **Stackability:** With stacking kit 5010 520
- **Base:** Fitted base (height 100 mm), one unscrewable gill plate on each side for cable entry, 4 levelling feet, can be levelled from below
- **Earthing:** Complete earthing
- **Protection class:** IP20
- **Colour:** Powder-coated RAL 7035 (light grey)



Delivery with fitted base

i Additional designs on request



Height* (RU)	(W x D) 600 x 600 mm	(W x D) 600 x 800 mm	(W x D) 800 x 600 mm	(W x D) 800 x 800 mm	(W x D) 800 x 1000 mm	(W x D) 800 x 1200 mm	Fig.
1000 mm (17 RU)	5010 966	5010 968	5010 986	5010 988	-	-	
1200 mm (22 RU)	5010 1166	5010 1168	5010 1186	5010 1188	-	-	1
1400 mm (26 RU)	5010 1366	5010 1368	5010 1386	5010 1388	-	-	
1700 mm (33 RU)	5010 1666	5010 1668	5010 1686	5010 1688	-	-	
1900 mm (37 RU)	5010 1866	5010 1868	5010 1886	5010 1888	-	-	
2100 mm (42 RU)	5010 2066	5010 2068	5010 2086	5010 2088	5010 2081	5010 2082	
2300 mm (46 RU)	-	-	-	5010 2288	5010 2281	5010 2282	

* Incl. base

Data/network cabinets

Pro network cabinets 19" (width: 482.6 mm) with swing frame

CobiNet Pro network cabinet with swing frame

- **Body:** Can be dismantled; load-bearing capacity: 100 kg or 200 kg (see table)
- **19" level:** Swing frame, depth-adjustable
- **Front door:** Glass door with 4 mm single-pane safety glass (parsol grey), 3-point locking mechanism and swivelling lever handle for profile half-cylinder incl. double bit insert
- **Back door:** Steel plate door, 1-point locking mechanism with swivelling lever handle incl. double bit insert and integrated document case
- **Side walls:** Made of steel plate, detachable, sealable
- **Roof:** With brush strip and covered break-outs; max. 2 fan sheets can be fitted. If the maximum number of fan sheets is fitted, cables will need to be inserted from below
- **Floor:** Divided into three parts, with covered break-outs
- **Cable management:** 2 cable clamp rails on both the left and the right-hand side
- **Stackability:** With stacking kit 5010 520
- **Base:** Fitted base (height 100 mm), one unscrewable gill plate on each side for cable entry, 4 levelling feet, can be levelled from below
- **Earthing:** Complete earthing
- **Protection class:** IP20
- **Colour:** Powder-coated RAL 7035 (light grey)



Delivery with fitted base



Additional designs on request

Height* (RU)	(W x D) 600 x 600 mm	(W x D) 800 x 600 mm	(W x D) 800 x 800 mm	(W x D) 800 x 1000 mm	Fig.
2100 mm (40 RU)	5012 2066	5012 2086	5012 2088	5012 2081	1
Static load-bearing capacity of swing frame	100 kg	100 kg	200 kg	200 kg	

* Incl. base



CobiNet server cabinets (Server) with perforated back door

- **Body:** Can be dismantled; load-bearing capacity: 1000 kg
- **19" level:** Front and rear, depth-adjustable
- **Front door:** Glass door with 4 mm single-pane safety glass (parsol grey), 3-point locking mechanism and swivelling lever handle for profile half-cylinder incl. double bit insert
- **Back door:** Perforated steel plate door, 1-point locking mechanism with swivelling lever handle
- **Side walls:** Made of steel plate, detachable, sealable
- **Roof:** Max. 2 fan sheets can be fitted; if the maximum number of fan sheets is fitted, cables will need to be inserted from below
- **Floor:** Without base plate
- **Stackability:** With stacking kit 5010 520
- **Base:** Fitted base (height 100 mm), one unscrewable gill plate on each side for cable entry, 4 levelling feet, can be levelled from below
- **Earthing:** Complete earthing
- **Protection class:** IP20
- **Colour:** Powder-coated RAL 7035 (light grey)



1



Delivery with fitted base



Additional designs on request

Height* (RU)	(W x D) 600 x 800 mm	(W x D) 600 x 1000 mm	(W x D) 600 x 1200 mm	(W x D) 800 x 600 mm	(W x D) 800 x 800 mm	(W x D) 800 x 1000 mm	(W x D) 800 x 1200 mm	Fig.
1400 mm (26 RU)	5021 1368	5021 1361	5021 1382	5021 1388	5021 1388	-	-	
2100 mm (42 RU)	5021 2068	5021 2061	5021 2082	5021 2086	5021 2088	5021 2081	5021 2082	
2300 mm (46 RU)	5021 2268	5021 2261	5021 2282	5021 2286	5021 2288	5021 2281	5021 2282	

* Incl. base

Data/network cabinets

Server cabinets (Server) 19" (width: 482.6 mm)

CobiNet server cabinet (Server) with perforated front and back door

- **Body:** Can be dismantled; load-bearing capacity: 1000 kg
- **19" level:** Front and rear, depth-adjustable
- **Front door:** Perforated steel plate door, 3-point locking mechanism and swivelling lever handle for profile half-cylinder incl. double bit insert
- **Back door:** Perforated steel plate door, 1-point locking mechanism with swivelling lever handle
- **Side walls:** Made of steel plate, detachable, sealable
- **Roof:** Max. 2 fan sheets can be fitted; if the maximum number of fan sheets is fitted, cables will need to be inserted from below
- **Floor:** Without base plate
- **Stackability:** With stacking kit 5010 520
- **Base:** Fitted base (height 100 mm), one unscrewable gill plate on each side for cable entry, 4 levelling feet, can be levelled from below
- **Earthing:** Complete earthing
- **Protection class:** IP20
- **Colour:** Powder-coated RAL 7035 (light grey)



Delivery with fitted base



Additional designs on request



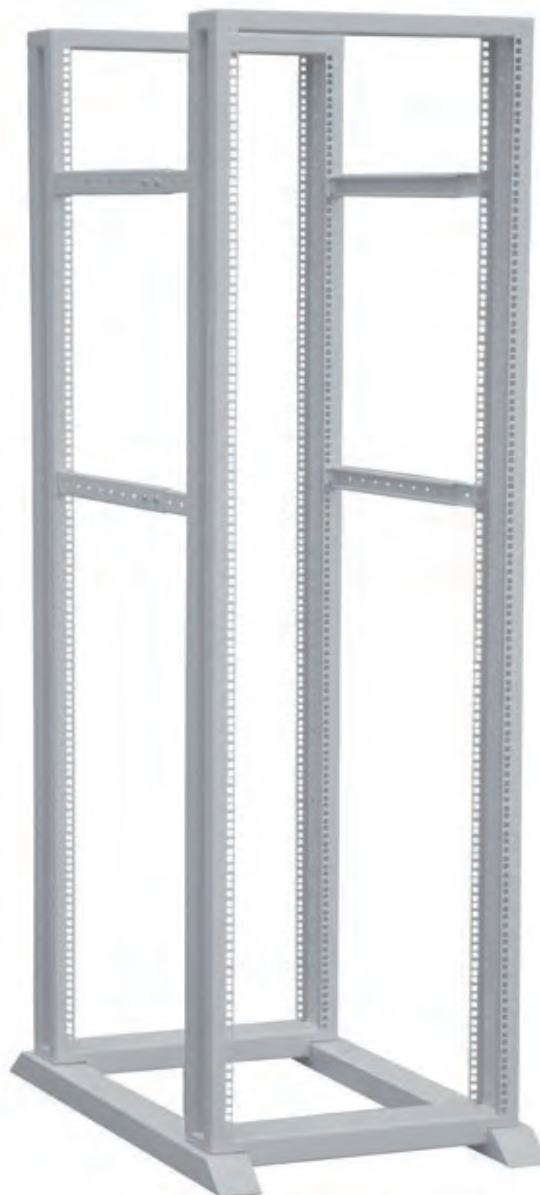
1

Height* (RU)	(W x D) 600 x 800 mm	(W x D) 600 x 1000 mm	(W x D) 600 x 1200 mm	(W x D) 800 x 600 mm	(W x D) 800 x 800 mm	(W x D) 800 x 1000 mm	(W x D) 800 x 1200 mm	Fig.
1400 mm (26 RU)	5022 1368	5022 1361	5022 1382	5022 1388	5022 1388	-	-	
2100 mm (42 RU)	5022 2068	5022 2061	5022 2082	5022 2086	5022 2088	5022 2081	5022 2082	1
2300 mm (46 RU)	5022 2268	5022 2261	5022 2282	5022 2286	5022 2288	5022 2281	5022 2282	

* Incl. base

CobiNet lab rack (Lab)

- **Body:** Open on all sides, can be dismantled, load-bearing capacity: 1000 kg
- **19" level:** Front supporting frame, depth-adjustable, option of delivery with 4 depth-adjustable support rails for the accommodation of a second level
- **Base:** 4 levelling feet enclosed, can be levelled from below
- **Earthing:** Complete earthing
- **Colour:** Powder-coated RAL 7035 (light grey)



1

 Additional designs on request

Height (RU)	(W x D) 550 x 600 mm	(W x D) 550 x 600 mm incl. 4 depth-adjustable support rails	(W x D) 550 x 800 mm	(W x D) 550 x 800 mm incl. 4 depth-adjustable support rails	Fig.
1311 mm (26 RU)	2010 601/26	2010 602/26	2010 801/26	2010 802/26	
1622 mm (33 RU)	2010 601/33	2010 602/33	2010 801/33	2010 802/33	
2000 mm (42 RU)	2010 601/42	2010 602/42	2010 801/42	2010 802/42	1

Data/network cabinets

Wall housing 19" (width: 482.6 mm)

CobiNet Wall B wall housing, 1-part

- Can be used as a wall, table-top or under-table housing
- Welded, symmetrical housing body
- Fully earthed housing
- 19" (width: 482.6 mm) level at the front (adjustable)
- Lockable front door in 4 mm single-pane safety glass (parsol grey)
- Changeable door hinge
- **Mini swivelling lever handle with integrated lock**
- Back wall with two vertically arranged mounting rails, prepared for cable entry and wall attachment
- Side walls lockable with cylinder lock
- Cable entry opening at the bottom with brush strip
- Protection class: IP20
- RAL 7035 (light grey)



1

i Optionally prepared for fan assembly "L" added to item numbers

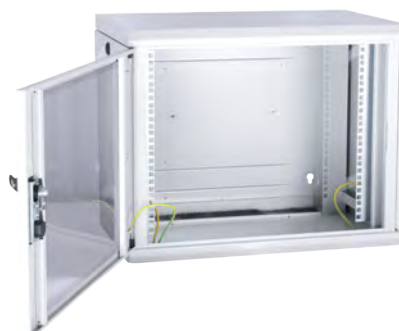
Optionally prepared with swivelling lever handle for profile half-cylinder; "P" added to item numbers

Example: 5015 254/6/L/P

i Additional designs on request



Ready-to-assemble delivery!



Height (RU)	(W x D) 600 x 400 mm	(W x D) 600 x 500 mm	(W x D) 600 x 600 mm	(W x D) 600 x 800 mm	Fig.
348 mm (6 RU)	5015 254/6	5015 255/6	5015 256/6	5015 258/6	
481 mm (9 RU)	5015 254/9	5015 255/9	5015 256/9	5015 258/9	1
615 mm (12 RU)	5015 254/12	5015 255/12	5015 256/12	5015 258/12	
748 mm (15 RU)	5015 254/15	5015 255/15	5015 256/15	5015 258/15	
1015 mm (21 RU)	5015 254/21	5015 255/21	5015 256/21	5015 258/21	

CobiNet Wall P wall housing, 3-part with swivelling central part

- Fully earthed housing
- 19" (width: 482.6 mm) level, adjustable
- Lockable front door in 4 mm single-pane safety glass (parsol grey)
- **Mini swivelling lever handle with integrated lock**
- Swivelling central part for the accommodation of 19" (width: 482.6 mm) components
- Rear part 120 mm deep, as distribution level
- Vertically arranged mounting rails on the back wall
- Cable entry opening at the top with brush strip, at the bottom with closed cover plate
- Hinged at the rear part, lockable with clamping levers (toolless)
- Protection class: IP20
- RAL 7035 (light grey)



1

i Optionally prepared for fan assembly "L" added to item numbers

Optionally prepared with swivelling lever handle for profile half-cylinder; "P" added to item numbers

Example: 5010 254/6/L/P



Ready-to-assemble delivery!

i Additional designs on request



Height (RU)	(W x D) 600 x 400 mm	(W x D) 600 x 500 mm	(W x D) 600 x 600 mm	(W x D) 600 x 800 mm	Fig.
345 mm (6 RU)	5010 254/6	5010 255/6	5010 256/6	5010 258/6	
478 mm (9 RU)	5010 254/9	5010 255/9	5010 256/9	5010 258/9	1
611 mm (12 RU)	5010 254/12	5010 255/12	5010 256/12	5010 258/12	
745 mm (15 RU)	5010 254/15	5010 255/15	5010 256/15	5010 258/15	
1011 mm (21 RU)	5010 254/21	5010 255/21	5010 256/21	5010 258/21	

Data/network cabinets

Wall housing 19" (width: 482.6 mm)

CobiNet Wall F wall housing, flexible as an assembly kit

- Delivered as an assembly kit in a space-saving flat pack design
- Stable back wall with 4 support profiles and two 19" (width: 482.6 mm) profile brackets as a basic module, galvanised
- Pluggable cladding parts
- Fully earthed housing
- Lockable front door in 4 mm single-pane safety glass (parsol grey)
- **Mini swivelling lever handle with integrated lock**
- Support profiles to be fitted on the back wall as a base for the front, depth-adjustable 19" (width: 482.6 mm) level, galvanised
- Roof and floor with brush strip passively ventilated, prepared for fan assembly, secured with a screw
- With single-pane safety glass (parsol grey)
- Protection class: IP20
- Changeable door hinge
- RAL 7035 (light grey)

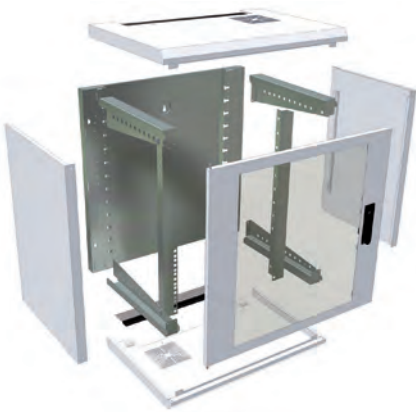
i Optionally prepared with swivelling lever handle for profile half-cylinder; "P" added to item numbers

Example: 5012 254/6/P



1

i Additional designs on request



Height (RU)	(W x D) 600 x 400 mm	(W x D) 600 x 500 mm	(W x D) 600 x 600 mm	Fig.
348 mm (6 RU)	5012 254/6	5012 255/6	5012 256/6	1
481 mm (9 RU)	5012 254/9	5012 255/9	5012 256/9	
615 mm (12 RU)	5012 254/12	5012 255/12	5012 256/12	
748 mm (15 RU)	5012 254/15	5012 255/15	5012 256/15	
1015 mm (21 RU)	5012 254/21	5012 255/21	5012 256/21	

CobiNet Wall V wall housing, vertical installation

- Wall housing with vertical 19" (width: 482.6 mm) level behind the corner door
- Corner door with acrylic glass pane and perforation
- Operation door can be detached for optimum access
- Doors have simultaneous locking; other locking mechanisms can also be used
- Back wall perforated and prepared for fan assembly
- Direct wall assembly
- Mounting plate with system perforation for the accommodation of a 4-way socket strip, thermostat and potential equalisation rail
- Roof and floor with brush strip
- Protection class: IP20
- RAL 7035 (light grey)

Item	Item no.	Fig.
3 RU Dimensions (W x H x D): 525 x 555 x 200 mm	5014 254/3	1
4 RU Dimensions (W x H x D): 525 x 555 x 245 mm	5014 254/4	
6 RU Dimensions (W x H x D): 525 x 555 x 334 mm	5014 254/6	

✓ Ready-to-assemble delivery!



1

i Additional designs on request

CobiNet Mini wall housing 10" (width: 254 mm) as an assembly kit

- Option of conversion to 9.5" (width: 241.3 mm) using the enclosed adapter
- Stable back wall with 4 support profiles and two 10" (width: 254 mm) profile brackets as a basic module, galvanised
- Pluggable cladding parts
- Lockable front door in 4 mm single-pane safety glass (parsol grey)
- Support profiles to be fitted on the back wall as a base for the front, depth-adjustable 10" (width: 254 mm) level, galvanised
- Roof and floor with brush strip, passively ventilated, secured with a screw
- With single-pane safety glass (parsol grey)
- Changeable door hinge
- Protection class: IP20
- Swivelling lever handle with integrated lock
- RAL 7035 (light grey)

Item	Item no.	Fig.
6 RU Dimensions (W x H x D): 371.4 x 348 x 400 mm	5016 254/6	1
9 RU Dimensions (W x H x D): 371.4 x 481 x 400 mm	5016 254/9	
12 RU Dimensions (W x H x D): 371.4 x 615 x 400 mm	5016 254/12	
6 RU Dimensions (W x H x D): 371.4 x 348 x 500 mm	5016 255/6	
9 RU Dimensions (W x H x D): 371.4 x 481 x 500 mm	5016 255/9	
12 RU Dimensions (W x H x D): 371.4 x 615 x 500 mm	5016 255/12	

i Additional designs on request



2

Data/network cabinets

Accessories

Switching cabinet light LED

- Magnetic fixing
- IP20
- 5 V/230 W
- Light intensity 350 lm
- Incl. PIR sensor (motion detector)



Item	Item no.	Fig.
Switching cabinet light	5010 147/LED	1

Switching cabinet light

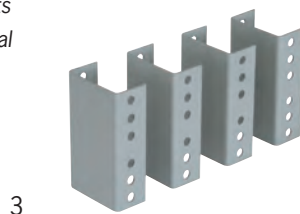
- Magnetic fixing
- With power switch and integrated protective contact socket
- 230 V/11 W
- Incl. light source



Item	Item no.	Fig.
Switching cabinet light	5010 147/M	2

Stacking kit for Pro/Server

- Consisting of 4 brackets
- Incl. attachment material



Item	Item no.	Fig.
Stacking kit for Pro/Server	5010 520	3

Potential equalisation rail with 2 isolators

- 12 connections M5 for earthing conductor
- Length: 25 cm



Item	Item no.	Fig.
Potential equalisation rail with 2 isolators	5010 017	4

Switching cabinet light 1 RU, 19" (width: 482.6 mm)

- Connection cord: 1.5 m with protective contact angled connector
- With integrated protective contact socket
- 230 V/11 W
- Plastic RAL 7035



Item	Item no.	Fig.
Switching cabinet light 1 RU With option of connecting a door position switch	5010 341	5

Door contact switch

- Incl. holder



Item	Item no.	Fig.
Door contact switch without cables	5010 149.1	6
Door position switch with retaining bracket	5010 342	7
- For switching cabinet light 1 RU (item no. 5010 341)		
- Consisting of:		
1x door position switch		
1x assembly kit		
1x switch		

Potential equalisation rail with cover

- Connections for earthing conductor:
 - 1x round conductor Rd 8-10
 - 1x round conductor Rd 8-10 or ribbon cable up to FL 30
 - 7x single-core/multi-core conductor up to 25 mm² or fine-core conductor up to 16 mm²
- Length: 25 cm



Item	Item no.	Fig.
Potential equalisation rail with cover	5010 018	8

Earth bar

Item	Item no.	Fig.
Earth bar L = 1800 mm , consisting of 1x copper rail 15 x 5 x 1800 mm 3x isolator M6x30 3x hexagon screw M6x12 3x spring washer dm = 6 12x connecting terminal 2.5-16 mm ²	5010 093	
Earth bar L = 1600 mm , consisting of 1x copper rail 20 x 10 x 1600 3x screw M8x20 3x spring washer dm = 8 2x busbar terminal 16-50 mm ² 20x busbar terminal 2.5-16 mm ²	5010 037	

Shelf 2 RU, 19" (width: 482.6 mm), stationary

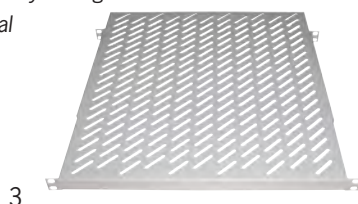
- Perforated
- For front attachment
- Static load-bearing capacity: 15 kg
- Incl. attachment material
- RAL 7035 (light grey)



Item	Item no.	Fig.
Supporting surface depth: 250 mm	5010 7010	2
Supporting surface depth: 350 mm	5010 7012	

Shelf 26 mm, 19" (width: 482.6 mm), stationary

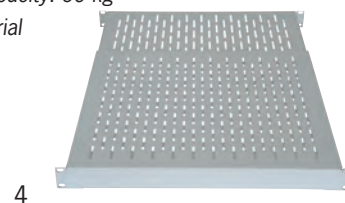
- Perforated
- For 4-way attachment onto two 19" (width: 482.6 mm) levels
- Static load-bearing capacity: 50 kg
- Incl. attachment material
- RAL 7035 (light grey)



Item	Item no.	Fig.
Supporting surface depth: 500 mm Infinitely adjustable from 400 to 600 mm	5010 7004	3
Supporting surface depth: 750 mm Infinitely adjustable from 650 to 850 mm	5010 7005	

Shelf 1 RU, 19" (width: 482.6 mm), stationary

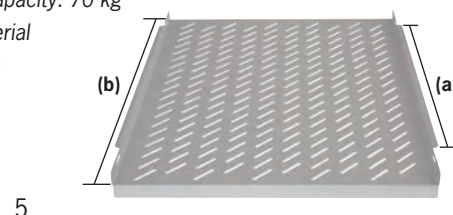
- Perforated
- For 4-way attachment onto two 19" (width: 482.6 mm) levels
- Static load-bearing capacity: 60 kg
- Incl. attachment material
- RAL 7035 (light grey)



Item	Item no.	Fig.
Supporting surface depth: 400 to 700 mm Infinitely adjustable from 400 to 700 mm	5010 7029	4
Supporting surface depth: 600 to 900 mm Infinitely adjustable from 600 to 900 mm	5010 7028	
Supporting surface depth: 800 to 1100 mm Infinitely adjustable from 800 to 1100 mm	5010 7030	

Heavy-duty shelf 25 mm, 19" (width: 482.6 mm), stationary for Pro/Server

- Perforated
- For 4-way attachment
- Attachment to the rear part of the grid rail that is positioned vertically to the 19" (width: 482.6 mm) level
- Static load-bearing capacity: 70 kg
- Incl. attachment material
- RAL 7035 (light grey)

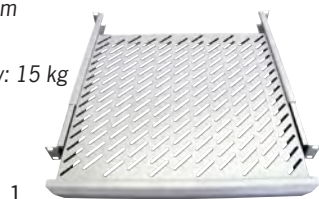


Item	Item no.	Fig.
Supporting surface depth: 404 mm (a) Spacing between the 19" (width: 482.6 mm) levels: 425 mm (b)	5010 7018	5
Supporting surface depth: 604 mm (a) Spacing between the 19" (width: 482.6 mm) levels: 625 mm (b)	5010 7019	
Supporting surface depth: 704 mm (a) Spacing between the 19" (width: 482.6 mm) levels: 725 mm (b)	5010 7020	
Supporting surface depth: 804 mm (a) Spacing between the 19" (width: 482.6 mm) levels: 825 mm (b)	5010 7021	

Accessories

Shelf 1 RU, 19" (width: 482.6 mm), extendible

- Perforated, with handle strip
- For 4-way attachment onto two 19" (width: 482.6 mm) levels
- Supporting surface depth: 400 mm
- Installation dimensions: 380 to 625 mm, infinitely adjustable
- Standard extension: 265 mm
- Incl. attachment material
- Static load-bearing capacity: 15 kg
- RAL 7035 (light grey)



1

Item	Item no.	Fig.
Shelf 1 RU, extendible	5010 7007	1

Shelf 2 RU, 19" (width: 482.6 mm), extendible

- Perforated, with handle strip
- For front attachment
- Supporting surface depth: 300 mm
- Full extension: 300 mm
- Incl. attachment material
- Static load-bearing capacity: 15 kg
- RAL 7035 (light grey)



2

Item	Item no.	Fig.
Shelf 2 RU, extendible	5010 7027	2

 Additional designs on request

Document compartment, 19" (width: 482.6 mm)

- Full extension: 350 mm
- Incl. attachment material
- RAL 7035 (light grey)

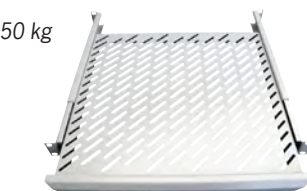


3

Item	Item no.	Fig.
1 RU, without lock Usable dimensions (W x H x D): 405 x 30 x 320 mm	5010 004	
2 RU, with cylinder lock Usable dimensions (W x H x D): 405 x 75 x 320 mm	5010 003	3
3 RU, with cylinder lock Usable dimensions (W x H x D): 405 x 119 x 320 mm	5010 000	

Shelf 1.5 RU, 19" (width: 482.6 mm), extendible

- Perforated, with handle strip
- For 4-way attachment onto two 19" (width: 482.6 mm) levels
- Incl. attachment material
- Static load-bearing capacity: 50 kg
- RAL 7035 (light grey)



4

Item	Item no.	Fig.
Supporting surface depth: 550 mm Installation dimensions: 550 to 850 mm Infinitely adjustable Full extension: 350 mm	5010 7015	4
Supporting surface depth: 750 mm Installation dimensions: 650 to 1050 mm Infinitely adjustable Full extension: 650 mm	5010 7017	

Shelf 10" (width: 254 mm), 1 RU, stationary

- For front attachment
- Supporting surface depth: 250 mm
- Incl. attachment material
- Static load-bearing capacity: 15 kg
- RAL 7035 (light grey)



5

Item	Item no.	Fig.
Shelf 10" (width: 254 mm), 1 RU, stationary	5016 7002	5

Keyboard compartment 2 RU, 19" (width: 482.6 mm)

- With large mouse pad and matching keyboard
- Storage space for the mouse in the extension area
- Incl. attachment material
- RAL 7035 (light grey)



6

Item	Item no.	Fig.
Keyboard compartment 2 RU	5110 000	6

Document case A4

- Self-adhesive
- Grey plastic
- Inside dimensions (W x H x D): 220 x 220 x 20 mm



1

Item	Item no.	Fig.
Document case A4	5010 317	1

Side cable routing bracket for Pro/Server

- Spacing between the attachment holes: 25 mm
- For attachment to the cabinet frame
- Incl. attachment material
- RAL 7035 (light grey)



2

Item	Item no.	Fig.
Dimensions (W x H x D): approx. 80 x 37 x 40 mm	2010 710	2
Dimensions (W x H x D): approx. 120 x 37 x 55 mm	2010 709	

Cable routing bracket

- For attachment onto a 19" (width: 482.6 mm) rack
- Material: Metal, powder-coated
- RAL 7035 (light grey)

i Corresponding mounting kit:
Item 2060 065



3

Item	Item no.	Fig.
Dimensions (W x H x D): 15 x 76 x 95 mm, medium	2060 058	3
Dimensions (W x H x D): 15 x 76 x 160 mm, large	2060 059	

Dummy front panel, 19" (width: 482.6 mm)

- For covering empty mounting compartments in housings and cabinets. Design: edged
- Attachment to the rear part of the grid rail that is positioned vertically to the 19" (width: 482.6 mm) level
- Oblong hole for height adjustment
- Edging: 10.5 mm
- RAL 7035 (light grey)

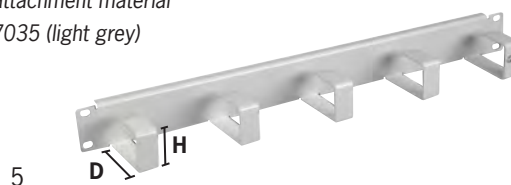


4

Item	Item no.	Fig.
Dummy front panel 1 RU	5010 068	4
Dummy front panel 2 RU	5010 068/2	
Dummy front panel 3 RU	5010 068/3	
Dummy front panel 6 RU	5010 068/6	
Dummy front panel 7 RU	5010 068/7	
Dummy front panel 9 RU	5010 068/9	
Dummy front panel 10 RU	5010 068/10	
Dummy front panel 32 RU	5010 068/32	

Patch cable routing panel, 19" (width: 482.6 mm)

- RAL 7035 (light grey)
- For patch cable routing in racks
- 5 integrated metal cable guides (thickness: 2 mm)
- Incl. attachment material
- RAL 7035 (light grey)



5

Item	Item no.	Fig.
19" (width: 482.6 mm) 1 RU Bracket size (H x D): approx. 40 x 65 mm Bracket opening: approx. 10 mm	C-5010 077	5
19" (width: 482.6 mm) 1 RU Bracket size (H x D): approx. 40 x 100 mm Bracket opening: approx. 15 mm	C-5010 078	
19" (width: 482.6 mm) 2 RU Bracket size (H x D): approx. 80 x 100 mm Bracket opening: approx. 15 mm	C-5010 079	
10" (width: 254 mm) 1 RU Bracket size (H x D): approx. 35 x 80 mm Bracket opening: approx. 10 mm	C-5016 079	

Data/network cabinets

Accessories

Front panel 1 RU with cable feed-through/frame at the front, 19" (width: 482.6 mm)

- With edge protection
- Feed-through opening (W x H): 405 x 22 mm
- Frame depth: 60 mm
- RAL 7035 (light grey)



1

Item	Item no.	Fig.
Front panel 1 RU with cable feed-through/frame at the front	5010 131/W	1

Sliding rail for Pro/Server, 19" (width: 482.6 mm)

- Attachment to the rear part of the grid rail that is positioned vertically to the 19" (width: 482.6 mm) level
- Oblong hole for height adjustment
- RAL 7035 (light grey)



2

Item	Item no.	Fig.
For Pro/Server Depth: 350 mm Spacing between the 19" (width: 482.6 mm) levels: 425 mm	5010 7023.1	2
For Pro/Server Depth: 550 mm Spacing between the 19" (width: 482.6 mm) levels: 625 mm	5010 7024.1	
For Pro/Server Depth: 650 mm Spacing between the 19" (width: 482.6 mm) levels: 725 mm	5010 7025.1	
For Pro/Server Depth: 750 mm Spacing between the 19" (width: 482.6 mm) levels: 825 mm	5010 7026.1	

 Additional designs on request

Front panel 2 RU with cable feed-through/brush strip, 19" (width: 482.6 mm)

- With edge protection
- Feed-through opening (W x H): 410 x 50 mm
- RAL 7035 (light grey)



3

Item	Item no.	Fig.
Front panel 2 RU with cable feed-through/brush strip	5010 132	3

Front panel 1 RU with cable feed-through/tray, 19" (width: 482.6 mm)

- With edge protection
- Feed-through opening (W x H): 405 x 22 mm
- Tray depth: 250 mm
- RAL 7035 (light grey)



4

Item	Item no.	Fig.
Front panel 1 RU with cable feed-through/tray	5010 212	4

Front panel with cable feed-through, 19" (width: 482.6 mm)

- With edge protection
- RAL 7035 (light grey)



5

Item	Item no.	Fig.
1 RU Feed-through opening (W x H): 405 x 22 mm	5010 131	5
2 RU Feed-through opening (W x H): 405 x 65 mm	5010 137	

 Additional designs on request

Supporting rail 19" (width: 482.6 mm) C profile

- With 16-17 mm slot width for the accommodation of pipe clamps or slide nuts



Item	Item no.	Fig.
19" (width: 482.6 mm) supporting rail	5010 074	1

Side L cable fixation rail for Pro/Server

- For lateral cabinet installation



Item	Item no.	Fig.
For 600-mm-deep Pro/Server	5010 053	2
For 800-mm-deep Pro/Server	5010 054	
For 900-mm-deep Pro/Server	5010 055	
For 1000-mm-deep Pro/Server	5010 071	
For 1200-mm-deep Pro/Server	5010 090	

 Additional designs on request

Profile half-cylinder with round cylinder

- Length: 40 mm
- Locking mechanism: EK 333
- With 2 keys
- For installation in swivelling lever handles



Item	Item no.	Fig.
Profile half-cylinder with round cylinder	3060 121	3

Side C supporting rail for Pro/Server

- For lateral cabinet installation
- C profile with 16-17 mm slot width for the accommodation of pipe clamps or slide nuts



Item	Item no.	Fig.
For 600-mm-deep Pro/Server	5010 060	4
For 800-mm-deep Pro/Server	5010 059	
For 900-mm-deep Pro/Server	5010 061	
For 1000-mm-deep Pro/Server	5010 052	
For 1200-mm-deep Pro/Server	5010 089	

Vertical cable channel with cable cover for Pro/Server

- Attachment to the cabinet frame
- Cabinet height: 2 m
- Can be assembled on the left or right-hand side



Item	Item no.	Fig.
For Pro/Server	5010 525	5

Data/network cabinets

Accessories

Fan plate with fan for roof installation Classic/Pro/Server

- 230 V, 120 x 120 mm, 36 dB(A), air flow rate per fan 160 m³/h
- Thermostat, 2 m cable with protective contact connector, fully pre-wired
- For optimum heat dissipation within the cabinet
- RAL 7035 (light grey)



Item	Item no.	Fig.
2 AC fan for Classic	5013 208/LB	
2 AC fans for Pro/Server	L-5010 968	2
3 AC fans for Pro/Server	L-5010 971	

Fan tray 1 RU, 19" (width: 482.6 mm)

- 3 AC fans 230 V, 120 x 120 mm, 37 dB(A), air flow rate per fan 160 m³/h
- Thermostat, 2 m cable with protective contact connector, fully pre-wired
- Depth: 195 mm
- RAL 7035 (light grey)



Item	Item no.	Fig.
Fan tray 1 RU	5013 229	5

Fan expansion kit for Wall Pro

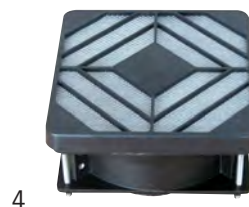
- AC fan 230 V, 80 x 80 mm, air flow rate 40 m³/h
- Protective grid
- Fan plate
- **Installation at the factory only**
- For optimum heat dissipation within the housing
- Outlet filter IP40
- RAL 7035 (light grey)



Item	Item no.	Fig.
Fan expansion kit for Wall P	5010 254/L	1

Filter fan for Wall P/F

- Ventilation grille
- Filter
- AC fan 230 V
- Incl. connecting cable



Item	Item no.	Fig.
120 x 120 mm Air flow rate: 160 m ³ /h free-blowing, 90 m ³ /h with filter	5010 227/120	4
80 x 80 mm Air flow rate: 45 m ³ /h free-blowing, 23 m ³ /h with filter	5010 227/80	

Fan expansion kit for Wall B/F/V

- AC fan 230 V, 120 x 120 mm, air flow rate 160 m³/h
- Connecting cable, earthing set
- Thermostat with normally open contact
- Protective grid
- Attachment material
- Small-device carrier, self-adhesive
- For optimum heat dissipation within the housing



Item	Item no.	Fig.
Fan expansion kit for Wall B/F/V	L-5012 250	

Thermostat with normally open contact

- For controlling filter fans and heat exchangers, or for switching signal transmitters if temperatures are exceeded
- With attachment adapter
- Connection type: 2-pole terminal 2.5 mm²
- Attachment: Clip for DIN rail TS35 and attachment adapter
- Adjustment range: 0-60°C
- Switch temperature difference: Approx. 7 K
- Sensor element: Bimetal
- Interference suppression: N as per VDE 0875
- Housing: Plastic UL94 V0
- Protection class: IP30



Item	Item no.	Fig.
Thermostat, normally open contact	5010 025	5

CobiNet cooling units for network cabinets

- Voltage: 230V/50 Hz
- Refrigerant R134a (non-toxic, non-flammable, ozone-friendly)
- Closed circuit for condensation
- Protection class: IP54
- RAL 7035 (light grey)



1

Item	Item no.	Fig.
700 W cooling capacity Air circulation: 650 m³/h, Dimensions (W x H x D): 337 x 742 x 242 mm, weight 30 kg	5013 K007	
900 W cooling capacity Air circulation: 650 m³/h Dimensions (W x H x D): 337 x 742 x 242 mm, weight 35 kg	5013 K009	1
1500 W cooling capacity Air circulation: 850 m³/h Dimensions (W x H x D): 436 x 1200 x 266 mm, weight 51 kg	5013 K015	
2000 W cooling capacity Air circulation: 850-1200 m³/h Dimensions (W x H x D): 436 x 1200 x 266 mm, weight 59 kg	5013 K020	

Double castors for Pro/Server

- 1 kit = 4 pcs
- With 10 mm bolt hole
- Castor diameter: 48 mm
- Total height: 70 mm
- Outreach: 24 mm
- Load capacity per double castor: 70 kg



2



3

Item	Item no.	Fig.
Without stoppers	5010 009	2
With stoppers	5010 008	3

Levelling feet for Classic

- With galvanised adjusting screw and hexagon socket
- Plastic disc diameter: 48 mm
- Load capacity per foot: 500 kg
- M12 x 60 mm
- Adjustment range 18-63 mm
- 1 kit = 4 pcs

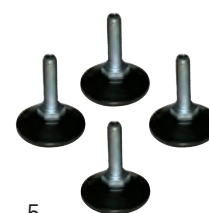


4

Item	Item no.	Fig.
Levelling feet	5010 041/A	4

Levelling feet for Pro/Server

- With galvanised adjusting screw
- Plastic disc diameter: 48 mm
- Load capacity per foot: 400 kg
- M10 x 40 mm
- 1 kit = 4 pcs



5

Item	Item no.	Fig.
Levelling feet	5010 041	5

Sample application



Data/network cabinets

Accessories

Base with levelling feet for Pro/Server, ventilated

- Individually removable panels
- Covered cable feed-throughs on the back



1

Base width 600 mm

Base height	(WxD) 600 x 600	(WxD) 600 x 800	(WxD) 600 x 900	(WxD) 600 x 1000	(WxD) 600 x 1200	Fig.
100 mm	5010 116	5010 117	5010 118	5010 120	5010 146	
200 mm	5010 126	5010 127	5010 128	5010 129	5010 151	1

Base width 800 mm

Base height	(WxD) 800 x 600	(WxD) 800 x 800	(WxD) 800 x 900	(WxD) 800 x 1000	(WxD) 800 x 1200	Fig.
100 mm	5010 121	5010 121	5010 123	5010 124	5010 125	
200 mm	5010 140	5010 141	5010 142	5010 144	5010 145	1

Mounting kits

CobiNet 19" mounting kit

- For mounting 19" fixtures
- Consisting of
 - 4x caged nut M6
 - 4x plastic washer M6
 - 4x round-head screw M6



2

Item	Item no.	Fig.
Mounting kit	5010 044	2
50x mounting kit	5010 044#50	

CobiNet 19" earth mounting kit

- For simultaneously mounting and earthing painted 19" fixtures
- Consisting of
 - 4x caged nut M6 with earthing claws
 - 4x plastic washer M6
 - 4x round-head screw M6
- Required for painted 19" fixtures



Notch for contacting

3

Item	Item no.	Fig.
Earth mounting kit	5010 044/E	3
50x earth mounting kit	5010 044/E#50	

Socket strip 1 RU, plastic

- 19" (width 482.6 mm)
- Connection cord 2 m with Schuko angled connector
- 8x protective contact socket, rotated by 35°
- 19" rotating mounting bracket
- Colour: Black

Item	Item no.	Fig.
8x protective contact socket without switch	5010 345	1
8x protective contact socket with switch	5010 346	2
8x protective contact socket with overvoltage protection 6.5 kA, optical function and failure indicator	5010 347	3



Socket strip 1 RU, ALU

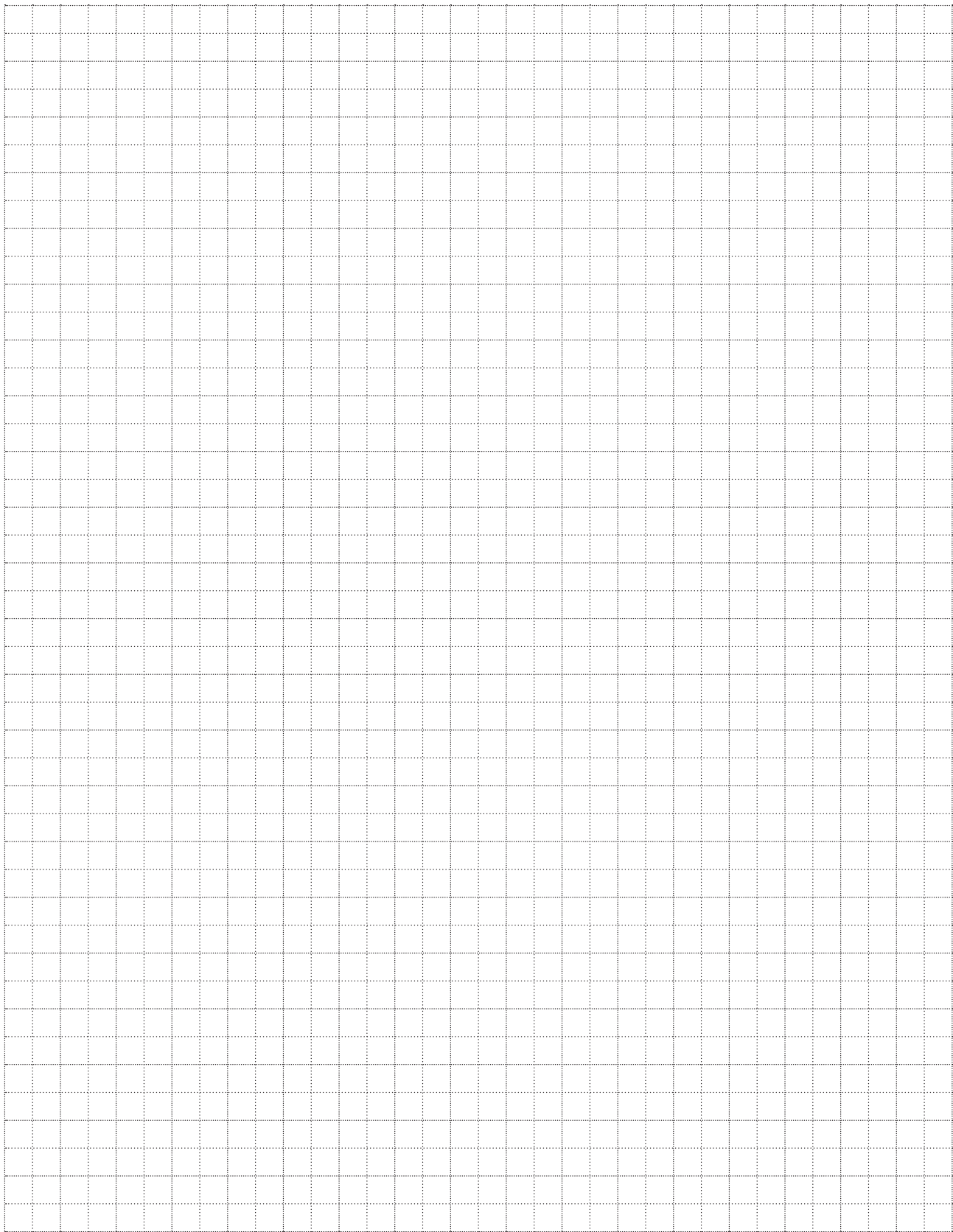
- Torsion-resistant profile made of anodised aluminium
- 19" (width: 482.6 mm)
- Connection cord: 2 m with protective contact angled connector
- Riveted end pieces
- Rotating attachment bracket
- Protective contact sockets rotated by 35°
- 230 V AC, 16 A
- Colour: Grey

Item	Item no.	Fig.
7x protective contact socket, with illuminated rocker switch, with overvoltage protection 6.5 kA, optical function and failure indicator	5010 327	4
9x protective contact socket	5010 324	
6x protective contact socket, with overvoltage protection 6.5 kA, network and frequency filter, optical function and failure indicator	5010 237/6	



Notes

Make plans with us



Power supply units

	Page
Power distributor SVT	172
Power distributor SVT 01	172
Power distributor SVT 02	172
Power distributor SVT 03	173
Power distributor SVT 04	173
Power distributor SVT 05	174
Powerbox SVB 23	174
Power distributor box SVB 22	175
Fuses	175

Power supply units

Power distributors

Power distributor SVT 01

- Power distribution with 10 redundant outputs (max. 15 A)
- 19" (width: 483 mm) 1.5 RU
- Input voltage: 2x -48 VDC $\pm 15\%$ SELV (Separated Extra Low Voltage)
- Input current: Max. 50 A
- Recommended fuse for the supply lines: 50 A safety fuse, time-delay
- Short-circuit current: Max. 300 A
- Input: 2x 3 screw terminals 35 mm² (-48 VDC, 0 V, PE)
- Output: 20 feed-through terminals 4 mm² (10x -48 VDC, 0 V)
- 15 A outputs for fast-acting safety fuse 6.3 x 32 mm, redundant via supply A and B, decoupled with diodes at each output
- Signalling: 20 green LEDs for voltage, 1 red LED for collective message "Feed disrupted"
- Potential-free contact as a changeover for collective message "Feed disrupted"
- Voltage drop caused by power supply: 1.1 V with 15 A load current
- VDE-tested
- Delivery without safety fuses
- Depth: 230 mm
- RAL 7035 (light grey)



1

Item	Item no.	Fig.
Power distributor SVT 01	C-5010 261	1

Power distributor SVT 02

- 2 autonomous power distributors each with 10 outputs (max. 15 A)
- 19" (width: 483 mm) 1.5 RU
- Input voltage: 2x -48 VDC $\pm 15\%$ SELV (Separated Extra Low Voltage)
- Input current: Max. 50 A
- Recommended fuse for the supply lines: 50 A safety fuse, time-delay
- Short-circuit current: Max. 300 A
- Input: 2x 3 screw terminals 35 mm² (-48 VDC, 0 V, PE)
- Output: 2x 20 feed-through terminals 4 mm² (20x -48 VDC, 0 V)
- 15 A outputs for fast-acting safety fuse 6.3 x 32 mm
- Signalling: 20 green LEDs for voltage, 1 red LED for collective message "Feed disrupted"
- Potential-free contact as a changeover for collective message "Feed disrupted"
- VDE-tested
- Delivery without safety fuses
- Depth: 230 mm
- RAL 7035 (light grey)



2

Item	Item no.	Fig.
Power distributor SVT 02	C-5010 264	2

Power distributor SVT 03

- 2 autonomous power distributors each with 6 outputs (max. 15 A)
- 19" (width: 483 mm) 1.5 RU
- Input voltage: 2x -48 VDC $\pm 15\%$ SELV (Separated Extra Low Voltage)
- Input current: Max. 50 A
- Recommended fuse for the supply lines: 50 A safety fuse, time-delay
- Short-circuit current: Max. 300 A
- Input: 2x 3 screw terminals 35 mm² (-48 VDC, 0 V, PE)
- Output: 2x 12 feed-through terminals 4 mm² (12x -48 VDC, 0 V)
- 15 A outputs for fast-acting safety fuse 6.3 x 32 mm
- Signalling: 12 green LEDs for voltage, 1 red LED for collective message "Feed disrupted"
- Potential-free contact as a changeover for collective message "Feed disrupted"
- VDE-tested
- Delivery without safety fuses
- Depth: 230 mm
- RAL 7035 (light grey)



1

Same as power distributor SVT 02 but with 6 outputs

Item	Item no.	Fig.
Power distributor SVT 03	C-5010 265	1

Power distributor SVT 04

- Power distribution with 9 redundant outputs (6x max. 15 A, 3x max. 35 A)
- 19" (width: 483 mm) 2 RU
- Input voltage: 2x -48 VDC $\pm 15\%$ SELV (Separated Extra Low Voltage)
- Input current: Max. 50 A
- Recommended fuse for the supply lines: 63 A safety fuse, time-delay
- Short-circuit current: Max. 300 A
- Input: 2x 3 screw terminals 35 mm² (-48 VDC, 0 V, PE)
- Output: 18 feed-through terminals 4 mm² (9x -48 VDC, 0 V)
- 6x 15 A outputs for fast-acting safety fuse 6.3 x 32 mm, 3x 35 A outputs with Neozed fuses, redundant via supply A and B, decoupled with diodes at each output
- Signalling: 20 green LEDs for voltage, 1 red LED for collective message "Feed disrupted"
- Potential-free contact as a changeover for collective message "Feed disrupted"
- Voltage drop caused by power supply: 1.1 V with 15 A load current
- VDE-tested
- Delivery without safety fuses
- Depth: 230 mm
- RAL 7035 (light grey)



2

Item	Item no.	Fig.
Power distributor SVT 04	C-5010 272	2

Power distributor/powerbox

Power distributor SVT 05

- 2 autonomous power distributors each with 9 outputs (6x max. 15 A, 3x max. 35 A)
- 19" (width: 483 mm) 2 RU
- Input voltage: 2x -48 VDC $\pm 15\%$ SELV (Separated Extra Low Voltage)
- Input current: Max. 50 A
- Recommended fuse for the supply lines: 63 A safety fuse, time-delay
- Short-circuit current: Max. 300 A
- Input: 2x 3 screw terminals 35 mm² (-48 VDC, 0 V, PE)
- Output: 2x 18 feed-through terminals 4 mm² (18x -48 VDC, 0 V)
- 2x6 15 A outputs for fast-acting safety fuse 6.3 x 32 mm, 2x3 35 A outputs with Neozed fuses
- Signalling: 20 green LEDs for voltage, 1 red LED for collective message "Feed disrupted"
- Potential-free contact as a changeover for collective message "Feed disrupted"
- VDE-tested
- Delivery without safety fuses
- Depth: 230 mm
- RAL 7035 (light grey)



1

Item	Item no.	Fig.
Power distributor SVT 05	C-5010 270	1

Powerbox SVB 23

- 2 autonomous power distributors each with 6 outputs (max. 15 A)
- 19" (width: 483 mm) 1 RU
- Input voltage: 2x -48 VDC $\pm 15\%$ SELV (Separated Extra Low Voltage)
- Input current: Max. 50 A
- Recommended fuse for the supply lines: 50 A safety fuse, time-delay
- Short-circuit current: Max. 300 A
- Input: Copper bars for -48 VDC, screw terminals 16 mm² for 0 V
- Output: 2x 12 feed-through terminals 2.5 mm² (12x -48 VDC, 0 V)
- 15 A outputs for fast-acting safety fuse 6.3 x 32 mm
- Pull-out with catch position for simple assembly
- Strain relief using cable ties
- Depth: 200 mm
- RAL 7035 (light grey)



2

Item	Item no.	Fig.
Powerbox SVB 23	C-5010 274	2

Power distributor box SVB 22

- Unequipped
- Integrated DIN rail TS35 for the attachment of fuses, relays, sockets, etc.
- 19" (width: 483 mm) 3 RU
- Pull-out with catch position for simple equipping
- Cable entry via brush strip
- Strain relief using cable ties
- N and PE rail
- Incl. empty field cover
- Depth: 150 mm
- RAL 7035 (light grey)

Item	Item no.	Fig.
Power distributor box SVB 22	C-5010 273	1



Fuses

Safety fuse

- Rated current: 15 A
- Rated voltage: 250 VAC
- Fuse size coding: 6.3 x 32 mm
- Characteristic: Fast-acting

Item	Item no.	Fig.
Safety fuse	5010 268	

NEOZED fuse

- Rated current: 15 A
- Rated voltage: 250 VAC
- Fuse size coding: 6.3 x 32 mm
- Characteristic: Fast-acting

Item	Item no.	Fig.
NEOZED fuse	5010 271	

CobiNet telecommunications

System overview Page

Overview of the LSA modules	178
System overview of the profile rods/ backmount frames	182

LSA-HD® RS for profile rods

About LSA-HD® RS	184
Connection versions	185
LSA-HD® RS modules	186
Overvoltage protection	187
Insertion tool	188
Accessories	188
Test cords and connection cords	190

LSA series 2 for profile rods

About LSA series 2	192
Series 2 modules	194
Insertion tool	196
Accessories for profile rod assembly channels	197
Test cords and connection cords	200
Overvoltage protection	204
Special plug-in boards	209

LSA series 1 for profile rods

About LSA series 1	210
Series 1 modules	211
Accessories for LSA series 1	211

Distribution technology for profile rods

VKA distributor housing, surface-mounted	212
VKU distributor housing, flush-mounted	213
Distribution cabinets	214
Distribution frames	217
Distribution racks 19"	221
Accessories	222

LSA-TL for backmount frames

About LSA-TL	226
LSA-TL modules	230
Accessories for LSA-TL	231

LSA series 2 for backmount frames

About LSA series 2	232
Series 2 modules	234
Insertion tool	235
Accessories for backmount frame modules	236
Test cords and connection cords	238

Distribution technology for backmount frames

VKA distributor housing, surface-mounted	242
VKU distributor housing, flush-mounted	243
Plastic distributors	244
Distribution cabinets	247
Distribution frames	250
Accessories	254
Distribution racks 19"	256

VdS distributors

VdS distributors	257
------------------	-----

Fire protection distributors

Fire protection telecommunication distributors	260
--	-----

CobiNet telecommunications Telecommunications – broadband

Page

Overview	280
----------	-----

System 71 – System 71/17

System comparison	263
Disconnection blocks, system 71/17	262
Disconnection blocks, system 71, 100 twisted pairs	264
Accessories	265
Distribution cabinets	266
Distribution frames	269

LSA series 1

Series 1 modules	270
Plastic distributor case VKK	271

Subracks

NT/NTBA subracks	272
------------------	-----

Class C cabling

Outlet UAE	274
Outlet TAE	274
Patch panel 19"	275
Distributor cords	276
Modular cables	277
RJ45 telephony distributors	278

Cable heads (CH)

Overview	282
The path to the GB society	284

LSA-HD®(-P)-RS/OP CH 15 RS

for cross-connection cabinet, profile rod assembly

LSA-HD® (P)-RS modules	286
------------------------	-----

LSA-HD® P for 8 twisted pairs/ 10 twisted pairs/OP CH 11

For cross-connection cabinet bay assembly

LSA HD® P modules	288
-------------------	-----

LSA-HD® CH 08 HD

for cross-connection cabinet bay assembly

CH 08 HD	292
Distribution racks 19" HD	294
LSA-HD® modules	296
Accessories	297
Test cords	299

LSA-TL/CH 14 TL

for cross-connection cabinet bay assembly

CH 14 TL	301
LSA-TL modules	302
Accessories	303

Cross-connection cabinets KVz

Cross-connection cabinets KVz 82	304
Cross-connection cabinets KVz 09	305
Cross-connection cabinets KVz UNI	306
Multifunctional enclosure	307
YV wire	308

Overview of LSA connection systems

LSA: Soldering, screwing and stripping-free

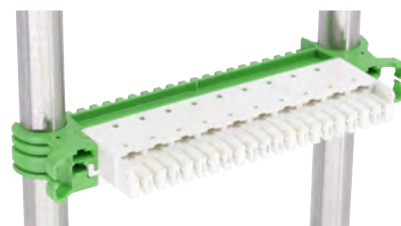
HD: High packaging density (High Density)

RS: Profile rod

P: Permanent rear overvoltage protection

TL: Toolless

LSA-HD® RS
profile rod



Recommended for:

Telecommunications

Grid dimension (distance from the centre of one module to the centre of the next module)	13.5 mm
Snap-on mounting onto profile rods	✓
Suitable for connection onto backmount frames and assembly channels	-
Core diameter (solid cores): 0.35 mm-0.65 mm	✓
Core diameter (solid cores): 0.4 mm-0.8 mm	✓
LSA insertion tool required	✓
Fully toolless connection	-
Water-proof, gel-enclosed contacts	-
Silver-plated contact surface	✓
LSA contact with 45° incline	✓
Disconnection module	✓
Connection module	✓
Earth module	✓
High density, compact version available	✓
Permanent overvoltage protection for connection from the rear	-
Overvoltage protection for connection from the front	✓

LSA-HD®(-P)-RS Profile rod



Broadband expansion,
cross-connection cabinet

13.5 mm

✓

-

✓

on request

✓

-

-

✓

✓

✓

✓

✓

✓

✓

-

LSA series 2 Profile rod



Telecommunications

22.5 mm

✓

✓

-

✓

✓

-

-

✓

✓

✓

✓

✓

-

-

✓

LSA series 1 Profile rod



Telecommunications

36 mm

✓

-

-

✓

✓

-

-

✓

✓

-

✓

✓

-

-

-

Overview of LSA connection systems

LSA: Soldering, screwing and stripping-free

HD: High packaging density (High Density)

RS: Profile rod

P: Permanent rear overvoltage protection

TL: Toolless

LSA-TL Backmount frame

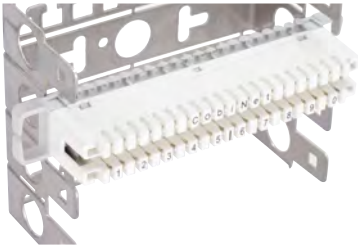


Broadband expansion,
cross-connection cabinet

Recommended for:

Grid dimension (distance from the centre of one module to the centre of the next module)	22.5 mm
Snap-on mounting onto profile rods	-
Suitable for connection onto backmount frames and assembly channels	✓
Core diameter: 0.35 mm-0.65 mm	✓
Core diameter: 0.4 mm-0.8 mm	-
LSA insertion tool required	-
Fully toolless connection	✓
Water-proof, gel-enclosed contacts	✓
Silver-plated contact surface	✓
LSA contact with 45° incline	✓
Disconnection module	✓
Connection module	-
Earth module	-
High density, compact version available	-
Permanent overvoltage protection for connection from the rear	-
Overvoltage protection for connection from the front	✓

LSA series 2 Backmount frame



Telecommunications

22.5 mm

-

✓

-

✓

✓

-

-

✓

✓

✓

✓

✓

-

-

✓

LSA-HD® Backmount frame



Broadband expansion,
cross-connection cabinet

13.5 mm

-

✓

✓

✓

✓

-

-

✓

✓

✓

✓

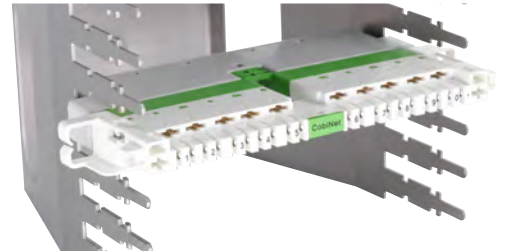
✓

✓

-

✓

LSA-HD®(-P) Backmount frame



Broadband expansion,
cross-connection cabinet

13.5 mm

-

✓

✓

✓

✓

-

-

✓

✓

✓

✓

✓

✓

✓

✓

Telecommunications

Attachment onto profile rods

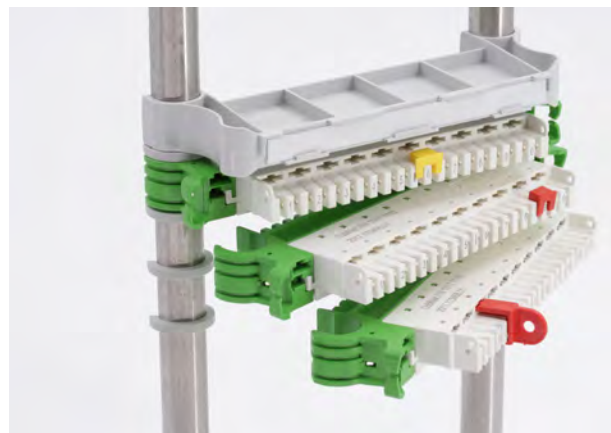
Features of the profile rods

Profile rods are used to set up telecommunications distributors of all sizes. The LSA connection modules are directly snap-mounted (without the need for any tools) onto two stainless steel profile rods running in parallel, with rod spacing of 95 mm.

A distinction is made between open rows of profile rods (Figure 1) and rows of profile rods with a closed assembly channel at the back (Figure 2).

Features of profile rod attachment:

- Global use of profile rod distributors of all sizes (since 1991)
- Toolless snap-on mounting of LSA connection modules from different series (LSA-HD® RS, LSA series 2, LSA series 1)
- Easy access to master and distribution cables, as the LSA connection modules can be swivelled by up to 120° (with jumpering on one side)
- Flexible grid dimensions (distance between modules) thanks to different spacer options
- Convenient assembly (no corners or edges)
- Migration of new series (e.g. LSA-HD® RS) can be carried out on existing distributors without any problems
- Overvoltage protection can be implemented at the front (LSA-HD® RS) or at the back (LSA-HD®(P)-RS)



1) Open row of profile rods with LSA-HD® RS



2) Row of profile rods with a closed assembly channel at the back

Features of the backmount frame

Backmount frames are used to set up telecommunications distributors of all sizes. The grid dimension (distance between modules) and the number of modules that can be attached are fixed in this case.

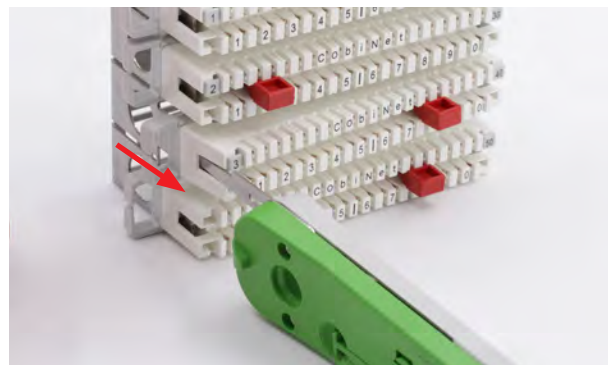
The LSA connection modules are attached without tools, but must be removed using the LSA insertion tool's release hook for access to the master and distribution cables (Figure 1).

If using LSA connection modules from different series, different types of backmount frames will need to be used (Figures 2 and 3).

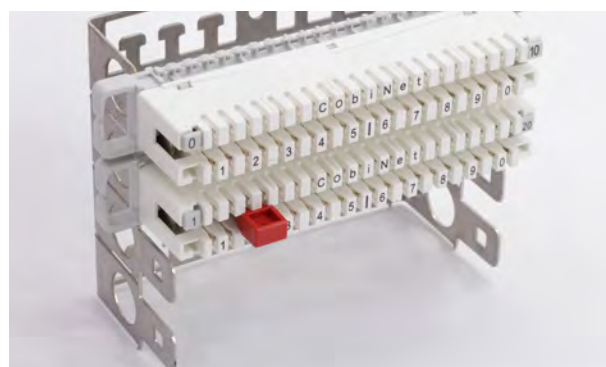
Features of backmount frame mounting:

- Global use of backmount frame distributors of all sizes
- Fixed grid dimension and number of modules with a specified depth
- Access to master and distribution cables is not toolless
- Edge protection profiles for unused module spaces

Profile rod distributors are convenient to assemble, and enable the use of multiple systems.



1) Unlocking with the LSA insertion tool



2) LSA series 2



3) LSA-HD®

LSA-HD® RS for profile rods

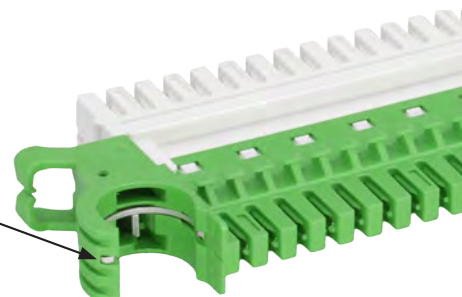
LSA: Soldering, screwing and stripping-free

HD: High packaging density (High Density)

RS: Profile rod attachment

Features of LSA-HD® RS:

- Module height 12.5 mm
- Double the packaging density compared to LSA series 2
- No loss of packaging density with a front-connected magazine
- All the benefits of profile rod attachment can be utilised (see page 182)
- Tried-and-tested: **DTAG (Deutsche Telekom) approval**
- Cable side (on the rear, green plastic)
- Jumper side (on the front, grey/white plastic)
- Centre contact for pick-up (testing, overvoltage protection magazine)
- Overvoltage protection magazine
- Integrated earthing contact clamps
- Label holder



1) Connecting the cable side

To connect the cable side, the LSA-HD® RS connection modules are snap-mounted onto the profile rods (toolless attachment) with the cable side (green) facing forwards.

The toolless snap-on mounting is possible thanks to the patented design of the LSA-HD® RS connection modules. No assembly aids are required.

The master/distribution cable is connected using the LSA insertion tool with sensor.

There are 2 ways in which strain relief can be provided for the connected cables.



Connecting the cable side



a) Strain relief via guide knobs on the module body

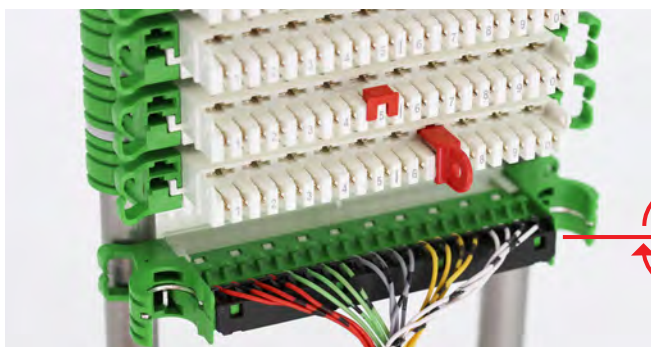


b) Using a strain relief comb (black) - benefit: Time savings

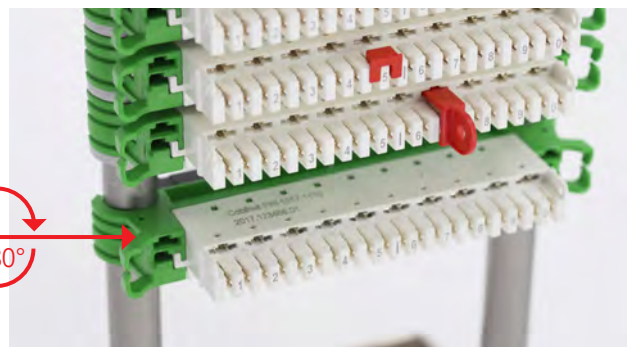
2) Snap-on mounting of the connected LSA-HD® RS connection module onto the profile rod system

Once it has been connected, the LSA-HD® RS connection module is horizontally rotated by 180° and is snapped onto the profile rods.

The 180° horizontal rotation also ensures optimum cable reserve on the cable side.



Connection position of the LSA-HD® RS connection module on the cable side



Connection position of the LSA-HD® RS connection module on the jumper side (horizontally rotated by 180°)

3) Flexible grid dimensions

The grid dimension (distance between modules) is flexible. Without spacers, we recommend a module spacing of 1 mm with a module height of 12.5 mm. This gives a grid dimension of 13.5 mm.

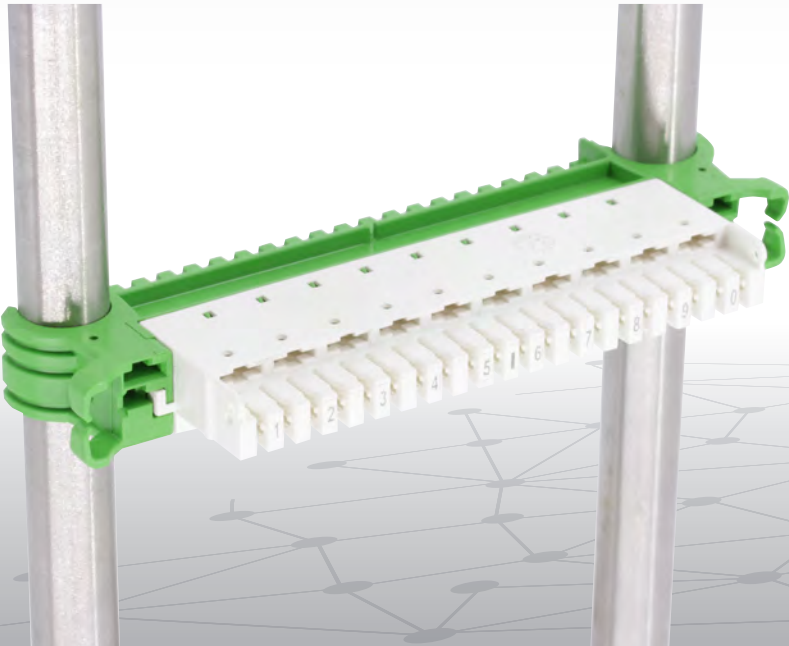
The maximum accommodation capacities for the distributor technology are also calculated based on this grid dimension.

When using core diameters of 0.8 mm, a 2.5 mm spacer must be used. This gives a grid dimension of 15 mm.



Spacer with 2.5 mm

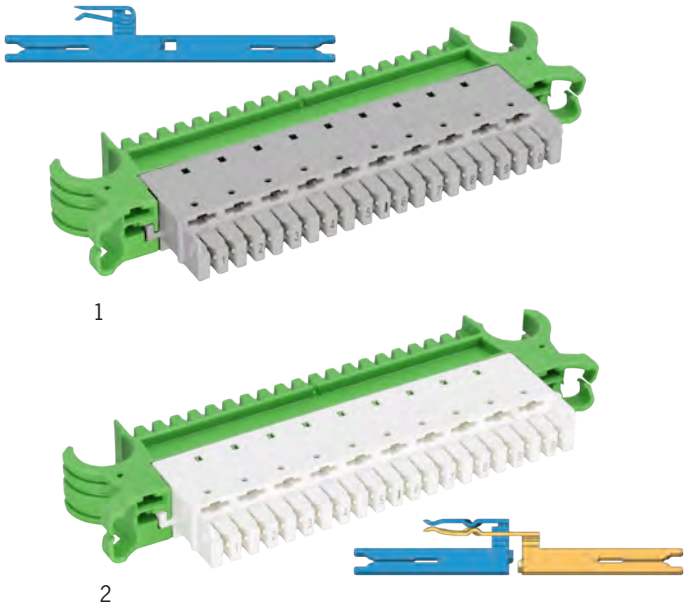
LSA-HD® RS



CobiNet LSA-HD® RS module

- For profile rods
- Integrated earthing contact clamps within the module

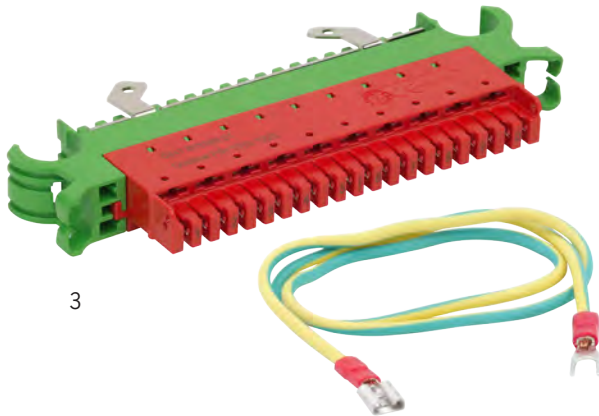
Item	Item no.	Fig.
LSA-HD® RS connection module for overvoltage protection at the front	1017 1010	1
LSA-HD® RS disconnection module for overvoltage protection at the front	1017 1110	2



CobiNet LSA-HD® RS earth module

- For profile rods
- For connecting earth drain wires to the earth connection
- 20-pin
- Earth connection line 500 mm with cable lug

Item	Item no.	Fig.
LSA-HD® RS earth module	1015 1220	3





CobiNet LSA-HD® RS overvoltage protection magazine

- For LSA-HD® RS modules (1017 1010, 1017 1110)
- For 10 twisted pairs, fitted with 10x 3-pole arresters
- For connection at the front

Item	Item no.	Fig.
Overvoltage protection magazine 230 V, 5 kA, with fail-safe	1017 2052	1
Overvoltage protection magazine 420 V, 5 kA	1017 2154	



CobiNet profile rod spacers

- For uniform alignment of the LSA modules on profile rods

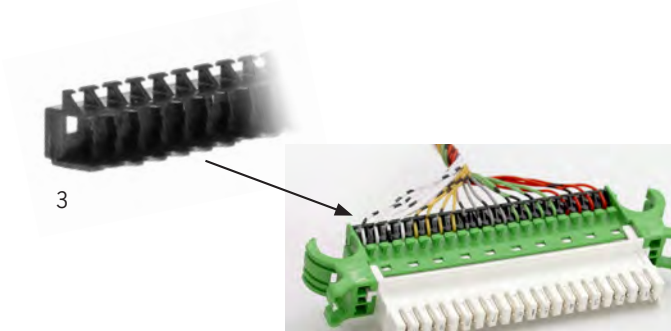
Item	Item no.	Fig.
2.5 mm, for grid dimension 15 mm	3050 028	2
5.0 mm, for grid dimension 17.5 mm	3050 029	



CobiNet LSA-HD® RS strain relief comb

- For profile rods
- Used instead of the module strain relief
- Shortens assembly times by 30% per module

Item	Item no.	Fig.
LSA-HD® RS strain relief comb	1015 3700	3



Assembly example

LSA-HD® accessories

CobiNet LSA insertion tool with sensor

- For the soldering, screwing and stripping-free insertion and simultaneous cutting to length of cable cores on LSA modules
- For conductor diameters of 0.35...0.9 mm and core diameters of 0.7...2.6 mm
- With fold-out release blade and fold-out extraction hook
- Up to 200,000 connection processes
- Scissors can be deactivated for looping cores through via multiple contacts
- With a sensor for the correct positioning of the cores within the LSA contact (can be deactivated)
- Used worldwide in leading telecommunications companies

1



Item	Item no.	Fig.
LSA insertion tool with sensor	1008 3101	1

CobiNet disconnection plug LSA-HD® 1 twisted pair

- For separating a twisted pair on LSA-HD® disconnection modules



2



Sample application

Item	Item no.	Fig.
Disconnection plug LSA-HD®, grey, 1 twisted pair	1008 3400	
Disconnection plug LSA-HD®, yellow, 1 twisted pair	1008 3401	
Disconnection plug LSA-HD®, green, 1 twisted pair	1008 3402	
Disconnection plug LSA-HD®, blue, 1 twisted pair	1008 3403	
Disconnection plug LSA-HD®, red, 1 twisted pair	1008 3405	2
Disconnection plug LSA-HD®, brown, 1 twisted pair	1008 3406	
Disconnection plug LSA-HD®, black, 1 twisted pair	1008 3408	
Disconnection plug LSA-HD®, white, 1 twisted pair	1008 3409	

CobiNet marking cap LSA-HD® 1 twisted pair

- For labelling important twisted pairs on LSA-HD® modules



3

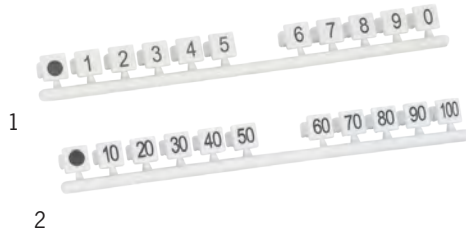


Sample application

Item	Item no.	Fig.
Marking cap LSA-HD®, grey, 1 twisted pair	1008 3510	
Marking cap LSA-HD®, yellow, 1 twisted pair	1008 3511	
Marking cap LSA-HD®, green, 1 twisted pair	1008 3512	
Marking cap LSA-HD®, blue, 1 twisted pair	1008 3513	
Marking cap LSA-HD®, red, 1 twisted pair	1008 3515	3
Marking cap LSA-HD®, brown, 1 twisted pair	1008 3516	
Marking cap LSA-HD®, black, 1 twisted pair	1008 3518	
Marking cap LSA-HD®, white, 1 twisted pair	1008 3519	

CobiNet plug number set

- For labelling LSA-HD® modules
- Colour: Grey



Item	Item no.	Fig.
Plug number set 1...0	3030 051	1
Plug number set 10...19	3030 180	
Plug number set 10...100	3030 052	2
Plug number set 110...200	3030 181	
Plug number set 1...10	3030 057	
Plug number set 11...20	3030 058	
Plug number set 21...30	3030 059	
Plug number set 31...40	3030 060	
Plug number set 41...50	3030 061	
Plug number set 51...60	3030 062	

CobiNet changeover adapter LSA-HD® 1 twisted pair

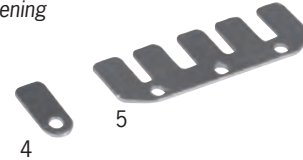
- For the interruption-free changeover of a twisted pair on LSA-HD® connection and disconnection modules



Item	Item no.	Fig.
Changeover adapter LSA-HD®, 1 twisted pair	1008 3300	3

CobiNet bridging plug LSA-HD®

- For bridging twisted pairs on LSA-HD® connection and disconnection modules
- Bridging plugs can be disconnected using wire cutters
- With pull-off opening



Item	Item no.	Fig.
1 twisted pair, 2-pin	1008 3421	4
5 twisted pairs, 10-pin	1008 3425	5

CobiNet module label holder LSA-HD® RS

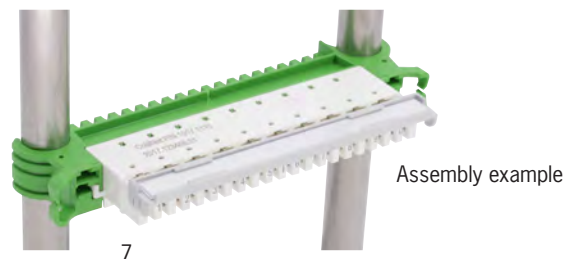
- For labelling the modules; for connection directly onto the profile rods



Item	Item no.	Fig.
Module label holder	1015 3502	6

CobiNet hinged label holder LSA-HD® RS

- Suitable for connection on all modules of the LSA-HD® RS system

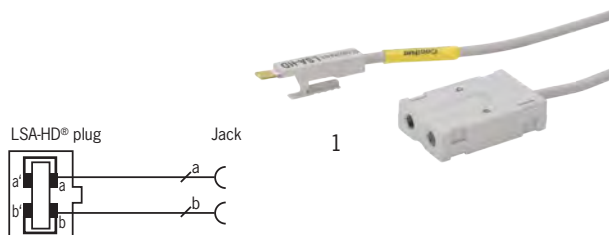


Item	Item no.	Fig.
Hinged label holder	1015 3500	7

LSA-HD® test cords

CobiNet test cord LSA-HD®, 2-pin,
LSA-HD® 2x jack (4 mm)

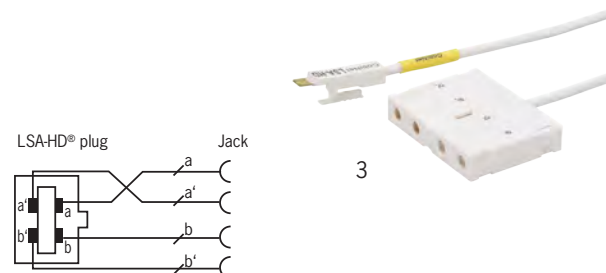
- For LSA-HD® connection and disconnection modules
- Fitted with LSA-HD® plug and 2 jacks (4 mm) for banana plugs
- For parallel connection to a twisted pair



Item	Item no.	Fig.
0.2 m	1008 3212/0.2.1	1
0.5 m	1008 3212/0.5.1	
1.0 m	1008 3212/1.0.1	
2.0 m	1008 3212/2.0.1	
3.0 m	1008 3212/3.0.1	

CobiNet test cord LSA-HD®, 4-pin,
LSA-HD® 4x jack (4 mm)

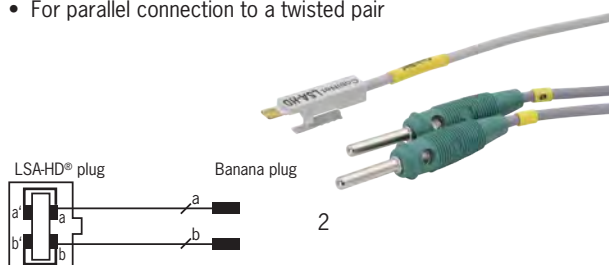
- For LSA-HD® disconnection modules
- Fitted with LSA-HD® plug and 4 jacks (4 mm) for banana plugs
- Separates a wire path



Item	Item no.	Fig.
0.2 m	1008 3214/0.2.1	3
0.5 m	1008 3214/0.5.1	
1.0 m	1008 3214/1.0.1	
2.0 m	1008 3214/2.0.1	
3.0 m	1008 3214/3.0.1	

Additional lengths
on requestCobiNet test cord LSA-HD®, 2-pin,
LSA-HD® 2x banana plug

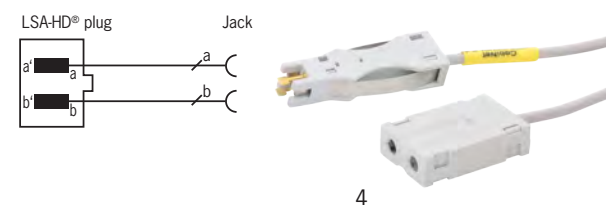
- For LSA-HD® connection and disconnection modules
- Fitted with LSA-HD® plug and 2 banana plugs
- For parallel connection to a twisted pair



Item	Item no.	Fig.
0.2 m	1008 3222/0.2	2
0.5 m	1008 3222/0.5	
1.0 m	1008 3222/1.0	
2.0 m	1008 3222/2.0	
3.0 m	1008 3222/3.0	

CobiNet universal test cord 7052, 2-pin

- Fitted with a plug for tapping almost all LSA contacts and 2 jacks (4 mm) for banana plugs
- 2-pin tapping of the LSA contact using 2 spring contacts in the plug
- For parallel connection to a twisted pair



Sample application

Item	Item no.	Fig.
0.2 m	3020 003/0.2	4

Additional lengths
on requesta/b = cable side
a'/b' = jumper side

CobiNet test cord LSA-HD®, 4-pin, LSA-HD® 4x banana plug

- For LSA-HD® disconnection modules
- Fitted with LSA-HD® plug and 4 banana plugs
- Separates a wire path

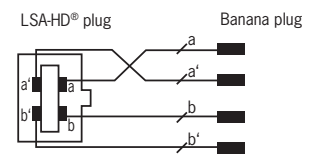
Item	Item no.	Fig.
0.2 m	1008 3224/0.2	1
0.5 m	1008 3224/0.5	
1.0 m	1008 3224/1.0	
2.0 m	1008 3224/2.0	
3.0 m	1008 3224/3.0	



1



**Additional lengths
on request**



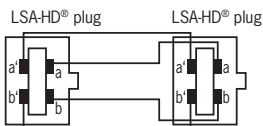
LSA-HD® connection cords

CobiNet connection cord LSA-HD®

- For LSA-HD® connection and disconnection modules
- Fitted with 2 LSA-HD® plugs
- Configuration: 1:1



2



Item	Item no.	Fig.
2-pin, 0.2 m	1008 3232/0.2	2
2-pin, 0.5 m	1008 3232/0.5	
2-pin, 1.0 m	1008 3232/1.0	
2-pin, 2.0 m	1008 3232/2.0	
2-pin, 3.0 m	1008 3232/3.0	
4-pin, 0.2 m	1008 3234/0.2	
4-pin, 0.5 m	1008 3234/0.5	
4-pin, 1.0 m	1008 3234/1.0	
4-pin, 2.0 m	1008 3234/2.0	
4-pin, 3.0 m	1008 3234/3.0	



**Additional lengths
on request**



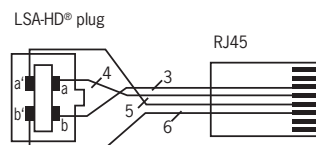
**a/b = cable side
a'/b' = jumper side**

CobiNet connection cord LSA-HD®/RJ45, 4-pin

- For LSA-HD® disconnection modules
- Fitted with LSA-HD® plug and RJ45 plug
- Configuration: a-4, a'-5, b-3, b'-6
- For coupling telephone services into the structured cabling system



3



Item	Item no.	Fig.
4-pin, 0.2 m	1008 3284/0.2	3
4-pin, 0.5 m	1008 3284/0.5	
4-pin, 1.0 m	1008 3284/1.0	
4-pin, 2.0 m	1008 3284/2.0	
4-pin, 3.0 m	1008 3284/3.0	

LSA series 2 profile rod

LSA series 2 for profile rods

The LSA series 2 for profile rod assembly has been used around the world for many years.

The product range is tried-and-tested and extremely comprehensive, and there is a wide range of accessories as well as the LSA disconnection, connection and earth modules.

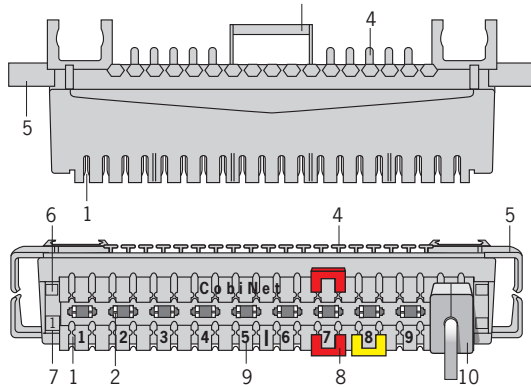
Features of the LSA series 2 for profile rod assembly:

- Module height 22.5 mm
- All the benefits of profile rod attachment (see page 182) can be utilised
- Can also be snapped onto backmount frames
- Contact reliability: LSA contact with 45° incline ensures additional torsional forces and secure connections
- Complete product range: Disconnection, connection and earth modules, overvoltage protection and a comprehensive range of accessories are all available
- Efficient: Connecting and jumpering with the CobiNet LSA insertion tool with sensor



LSA series 2 profile rod

LSA series 2 for profile rods

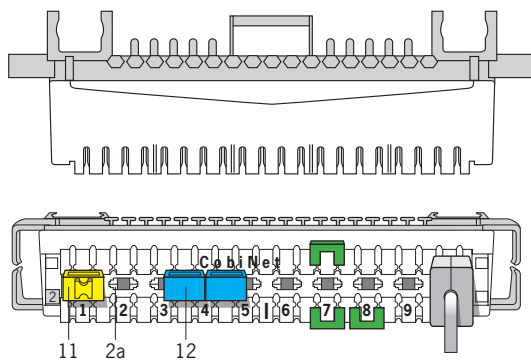


LSA connection module 2/10

- 1 Connecting contact
- 2 Centre contact for signal pick-up and testing (overvoltage protection)
- 3 Guide eyelet for wire bundles
- 4 Wire guidance comb and guide knobs for cable cores
- 5 Jumper wire guide
- 6 Opening for plug number
- 7 Plug number
- 8 Marking cap (accessory)
- 9 Number (pair no.) on jumper side (variable imprint)
- 10 Test cord (accessory)

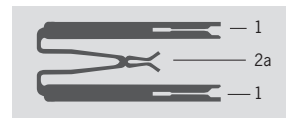


The cable side and the jumper side are permanently electrically connected to one another.

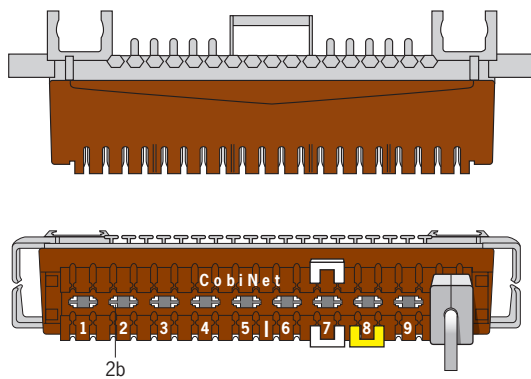


LSA disconnection module 2/10

- 2a Centre contact for disconnection, signal pick-up and testing (overvoltage protection)
- 11 Dummy plug (accessory)
- 12 Disconnection plug (accessory)

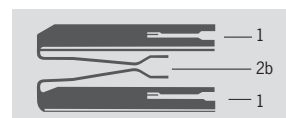


The cable side and the jumper side can be electrically disconnected using a disconnection plug.

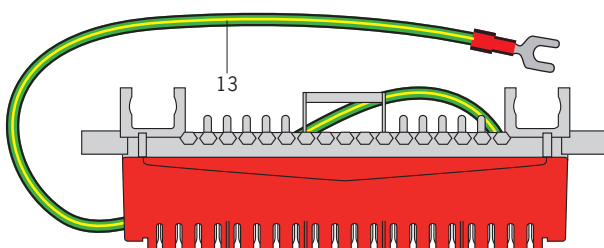


LSA switching module

- 2b Switching contact for signal pick-up and testing (overvoltage protection)



The cable side and the jumper side are disconnected. Signal coupling via plug (structured cabling systems).



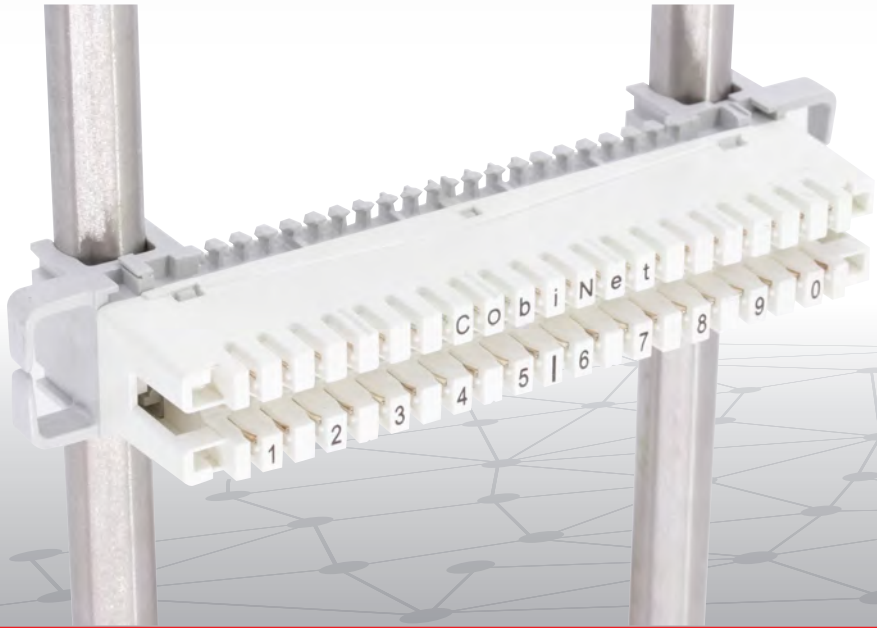
LSA earth module 2/34

- 13 Earth wire for connection to earthing points

All earth module contacts are bridged with the earth wire.

LSA series 2

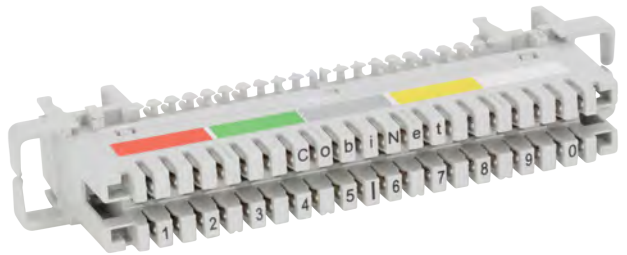
For profile rods



CobiNet LSA connection module 2/10 for 10 twisted pairs

- For profile rods and backmount frame/assembly channel

Item	Item no.	Fig.
With colour code Printed: Jumper side 1...0, large jumper wire guides	1030 025	1
With colour code Printed: Jumper side 1...0, small jumper wire guides	1030 035	
Without colour code Printed: Jumper side 1...0, large jumper wire guides	1030 024	2
Without colour code Printed: Jumper side 1...0, small jumper wire guides	1030 034	



1



2



CobiNet LSA disconnection module 2/10 for 10 twisted pairs

- For profile rods and backmount frame/assembly channel

Item	Item no.	Fig.
With colour code Printed: Jumper wire side 1...0, large jumper wire guides	1030 023	1
With colour code Printed: Jumper wire side 1...0, small jumper wire guides	1030 033	
Without colour code Printed: Jumper wire side 1...0, large jumper wire guides	1030 022	2
Without colour code Printed: Jumper wire side 1...0, small jumper wire guides	1030 032	

CobiNet LSA earth module 2/34

- For profile rods and backmount frame/assembly channel
- For connecting earth drain wires to the earth connection
- 34-pin

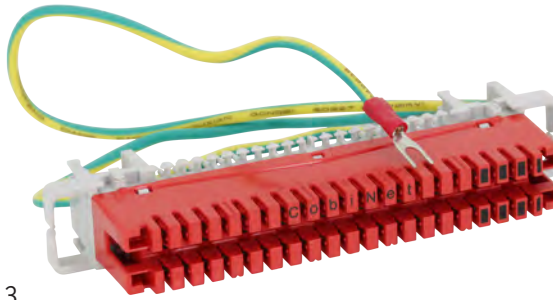
Item	Item no.	Fig.
LSA earth module 2/34 Large jumper wire guides	1030 026	3



1



2



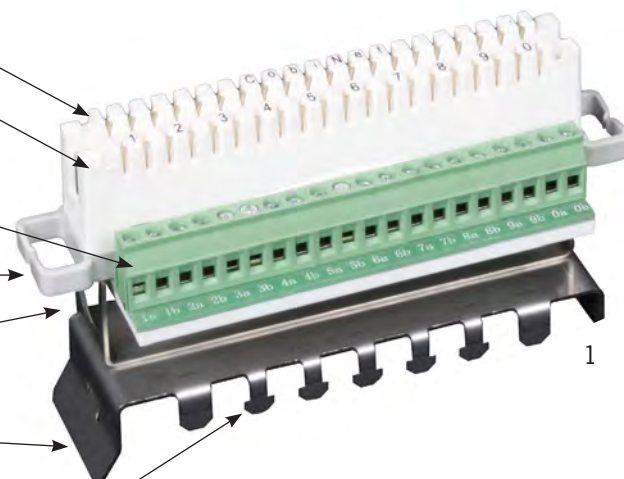
3

LSA series 2 profile rod

Modules for profile rods

CobiNet LSA disconnection module 2/10 SK for 10 twisted pairs

- Application area for power supply and in a power plant environment for the connection of outdoor cables (e.g. telecontrol systems)
- Printed: Jumper side 1...0
- Pluggable overvoltage protection
- High-quality screw terminal from Phoenix Contact for the connection of cores with a conductor cross-section of up to 2.5 mm²
- Large jumper wire guides
- Contact protection on the back
- Without colour code
- For profile rods
- Verified quality from Germany
- Integrated cable strain relief



Item	Item no.	Fig.
With screw terminals on the jumper side	1020 029/P	1
With screw terminals on the jumper side and the cable side	1020 029/2/P	

Accessories

CobiNet LSA insertion tool with sensor

- For the soldering, screwing and stripping-free insertion and simultaneous cutting to length of cable cores on LSA modules
- With fold-out extraction hook and release blade
- For conductor diameters of 0.35...0.9 mm and core diameters of 0.7...2.6 mm
- With a sensor for scanning the core end position
- Scissors can be deactivated for looping cores through via multiple contacts
- Scissors have a long service life of up to 200,000 cuts

Item	Item no.	Fig.
LSA insertion tool with sensor	1008 3101	2



See page 36 for details

CobiNet profile rod module label holder 2/10

- For attachment onto profile rods and backmount frame/assembly channel
- With unprinted paper label

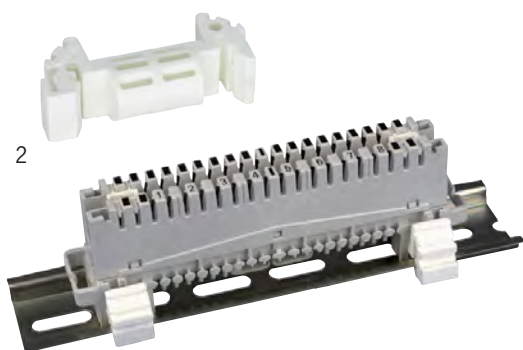


1

Item	Item no.	Fig.
Profile rod module label holder 2/10	3031 032	1

CobiNet profile rod/DIN rail assembly adapter

- For fastening LSA modules for 12 mm profile rods onto DIN rails TS35 in accordance with DIN EN 60715



2

Sample application

Item	Item no.	Fig.
Profile rod/DIN rail assembly adapter	3030 122	2

CobiNet profile rod spacers

- For uniform alignment of the LSA modules on profile rods



3

Item	Item no.	Fig.
2.5 mm, for grid dimension 25 mm	3050 028	3
5.0 mm, for grid dimension 27.5 mm	3050 029	

CobiNet hinged label holder 2/10

- For attachment onto LSA modules 2/10 and onto overvoltage protection magazines 2/10 instead of the cover
- For labelling on both sides
- With unprinted paper labels and transparent covers



4

Item	Item no.	Fig.
Hinged label holder 2/10	3030 020	4

CobiNet attachable label holder 2/10

- For attachment onto LSA modules 2/10 and onto overvoltage protection magazines 2/10
- For labelling rows
- With unprinted paper label and transparent cover
- Note: The module space at the top is not for use



5

Item	Item no.	Fig.
Attachable label holder 2/10	3030 152	5

Accessories

CobiNet disconnection plug 2/1

- For separating a twisted pair on series 2 LSA disconnection modules



1

Item	Item no.	Fig.
Colour: Red	3030 064	1
Colour: White	3030 065	
Colour: Green	3030 066	
Colour: Yellow	3030 067	
Colour: Grey	3030 068	
Colour: Black	3030 069	
Colour: Brown	3030 070	
Colour: Blue	3030 071	

CobiNet disconnection plug 2/10, grey

- For separating all 10 twisted pairs on series 2 LSA disconnection modules



2

Item	Item no.	Fig.
Disconnection plug 2/10, grey	3030 090	2

CobiNet dummy plug 2/1 BF

- With labelling area
- For labelling 1 twisted pair and for preventing access with connection modules and disconnection with series 2 disconnection modules



3

Item	Item no.	Fig.
Colour: Red	3030 144	3
Colour: White	3030 145	
Colour: Green	3030 146	
Colour: Yellow	3030 147	
Colour: Grey	3030 148	
Colour: Black	3030 149	
Colour: Brown	3030 150	
Colour: Blue	3030 151	

CobiNet marking cap 2/1

- For labelling important twisted pairs on series 2 LSA modules

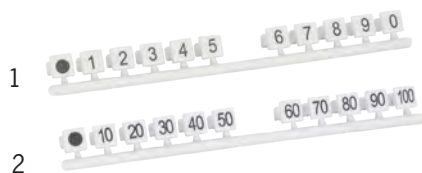


4

Item	Item no.	Fig.
Colour: Red	3030 043	4
Colour: White	3030 044	
Colour: Green	3030 045	
Colour: Yellow	3030 046	
Colour: Grey	3030 047	
Colour: Black	3030 048	
Colour: Brown	3030 049	
Colour: Blue	3030 050	

CobiNet plug number set

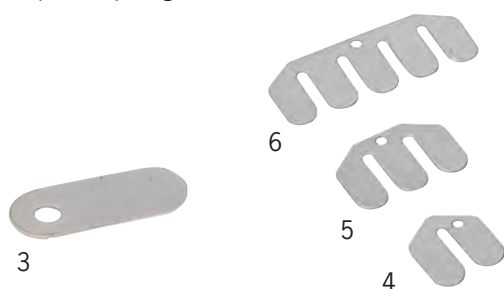
- For labelling series 2 LSA modules
- Colour: Grey



Item	Item no.	Fig.
Plug number set 1...0	3030 051	1
Plug number set 10...100	3030 052	2
Plug number set 1...10	3030 057	
Plug number set 11...20	3030 058	
Plug number set 21...30	3030 059	
Plug number set 31...40	3030 060	
Plug number set 41...50	3030 061	
Plug number set 51...60	3030 062	
Plug number set 10...19	3030 180	
Plug number set 110...200	3030 181	

CobiNet bridging plug

- For bridging twisted pairs on series 2 LSA connection and disconnection modules
- Bridging plugs can be disconnected using wire cutters
- With pull-off opening



Item	Item no.	Fig.
Bridging plug 2/1 1 twisted pair (2-pin)	3030 200	3
Bridging plug 2/2 2 twisted pairs (4-pin)	3030 201	4
Bridging plug 2/3 3 twisted pairs (6-pin)	3030 203	5
Bridging plug 2/5 5 twisted pairs (10-pin)	3030 204	6
Bridging plug 2/10 10 twisted pairs (20-pin)	3030 202	

CobiNet cover strip 2/10

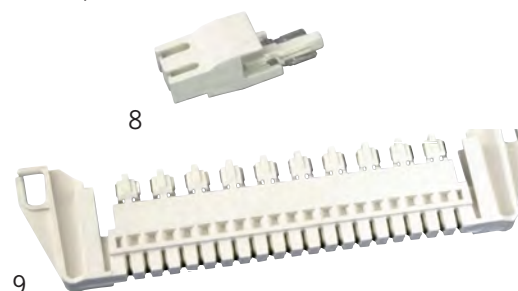
- For labelling important connections on LSA modules 2/10
- For use as access protection for cable cores or jumper wires
- Strip breaks on removal



Item	Item no.	Fig.
Colour: Grey	3030 032	7
Colour: White	3030 035	

CobiNet disconnection adapter

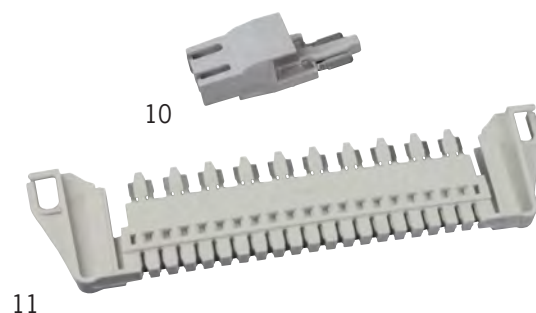
- Separates 1 or 10 jumped twisted pairs on LSA disconnection modules and taps on one side



Item	Item no.	Fig.
Disconnection adapter 2/1	3030 030	8
Disconnection adapter 2/10	3030 031	9

CobiNet changeover adapter

- For the interruption-free changeover of 1 or 10 twisted pairs on LSA connection and disconnection modules



Item	Item no.	Fig.
Changeover adapter 2/1	3030 028	10
Changeover adapter 2/10, printed: 1...0	3030 026	11

LSA series 2 profile rod

Cords

CobiNet cord 2/4, 4-pin, 1x LSA 2/4, open on one side

- For LSA disconnection and switching modules



Item	Item no.	Fig.
Length: 1.0 m	3020 089/1.0.1	1
Length: 2.0 m	3020 089/2.0.1	
Length: 3.0 m	3020 089/3.0.1	
Length: 5.0 m	3020 089/5.0.1	

CobiNet cord 2/2, 2-pin, 1x LSA 2/2, open on one side

- For LSA connection and disconnection modules



Item	Item no.	Fig.
Length: 1.0 m	3020 046/1.0.1	2
Length: 2.0 m	3020 046/2.0.1	
Length: 3.0 m	3020 046/3.0.1	
Length: 5.0 m	3020 046/5.0.1	

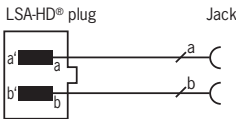
 Additional lengths on request

Test cords

CobiNet universal test cord, 2-pin

- Fitted with a plug for tapping almost all LSA contacts and 2 jacks (4 mm) for banana plugs
- 2-pin tapping of the LSA contact using 2 spring contacts in the plug
- For parallel connection to a twisted pair

Item	Item no.	Fig.
0.2 m	3020 003/0.2	5



 a/b = cable side
a'/b' = jumper side

LSA series 2 profile rod

Test cords

**CobiNet test cord 2/2, 2-pin,
LSA 2/2 - 2x jack (4 mm)**

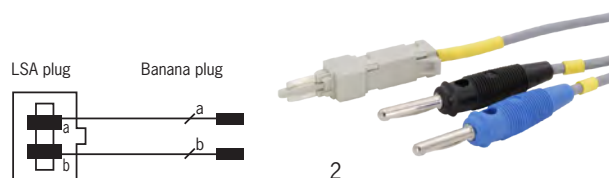
- For parallel connection to a twisted pair
- With LSA plug and two jacks (4 mm) for banana plugs
- For LSA connection and disconnection modules



Item	Item no.	Fig.
Length: 0.2 m	3020 028/0.2.1	1
Length: 0.5 m	3020 028/0.5.1	
Length: 1.0 m	3020 028/1.0.1	
Length: 2.0 m	3020 028/2.0.1	
Length: 3.0 m	3020 028/3.0.1	

**CobiNet test cord 2/2, 2-pin,
LSA 2/2 - 2x banana plug**

- For parallel connection to a twisted pair
- With LSA plug and two banana plugs
- For LSA connection and disconnection modules

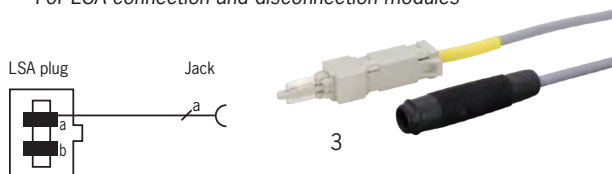


Item	Item no.	Fig.
Length: 0.2 m	3020 044/0.2.1	2
Length: 0.5 m	3020 044/0.5.1	
Length: 1.0 m	3020 044/1.0.1	
Length: 2.0 m	3020 044/2.0.1	
Length: 3.0 m	3020 044/3.0.1	

i Additional lengths on request

**CobiNet test cord 2/1, 1-pin,
LSA 2/1 - 1x jack (4 mm)**

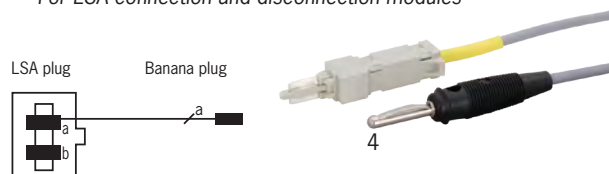
- For parallel connection
- With LSA plug and a jack (4 mm) for banana plug
- For LSA connection and disconnection modules



Item	Item no.	Fig.
Length: 0.2 m	3020 020/0.2.1	3
Length: 0.5 m	3020 020/0.5.1	
Length: 1.0 m	3020 020/1.0.1	
Length: 2.0 m	3020 020/2.0.1	
Length: 3.0 m	3020 020/3.0.1	

**CobiNet test cord 2/1, 1-pin,
LSA 2/1 - 1x banana plug**

- For parallel connection
- With LSA plug and a banana plug
- For LSA connection and disconnection modules



Item	Item no.	Fig.
Length: 0.2 m	3020 036/0.2.1	4
Length: 0.5 m	3020 036/0.5.1	
Length: 1.0 m	3020 036/1.0.1	
Length: 2.0 m	3020 036/2.0.1	
Length: 3.0 m	3020 036/3.0.1	

i Additional lengths on request

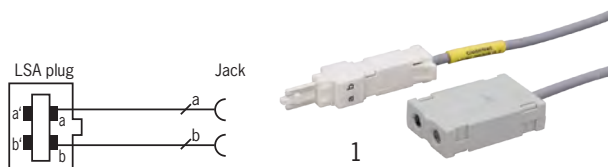
i a/b = cable side
a'/b' = jumper side

LSA series 2 profile rod

Test cords

CobiNet test cord 2/4, 4-pin LSA 2/4 - 2x jack (4 mm)

- Separates a wire path
- With LSA plug and two jacks (4 mm) for banana plugs
- For LSA disconnection modules

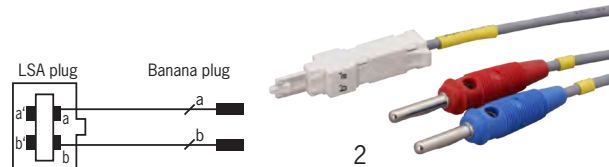


Item	Item no.	Fig.
Length: 0.2 m	3020 062/0.2.1	1
Length: 0.5 m	3020 062/0.5.1	
Length: 1.0 m	3020 062/1.0.1	
Length: 2.0 m	3020 062/2.0.1	
Length: 3.0 m	3020 062/3.0.1	

i Additional lengths on request

CobiNet test cord 2/4, 4-pin, LSA 2/4 - 2x banana plug

- Separates a wire path
- With LSA plug and two banana plugs
- For LSA disconnection modules

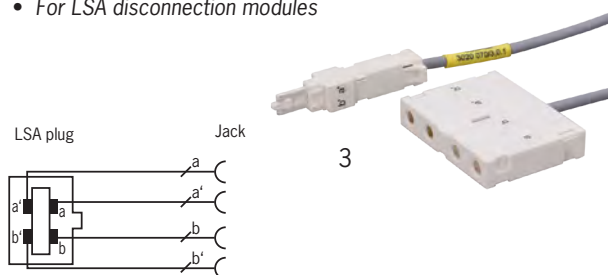


Item	Item no.	Fig.
Length: 0.2 m	3020 078/0.2.1	2
Length: 0.5 m	3020 078/0.5.1	
Length: 1.0 m	3020 078/1.0.1	
Length: 2.0 m	3020 078/2.0.1	
Length: 3.0 m	3020 078/3.0.1	

**i a/b = cable side
a'/b' = jumper side**

CobiNet test cord 2/4, 4-pin, LSA 2/4 - 4x jack (4 mm)

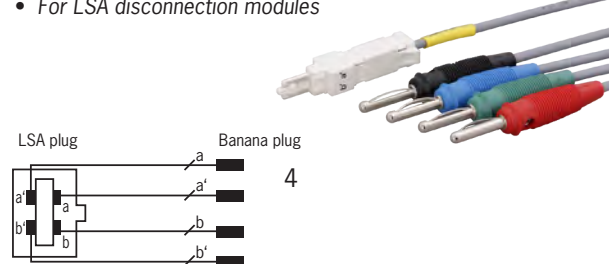
- Separates a wire path
- With LSA plug and four jacks (4 mm) for banana plugs
- For LSA disconnection modules



Item	Item no.	Fig.
Length: 0.2 m	3020 070/0.2.1	3
Length: 0.5 m	3020 070/0.5.1	
Length: 1.0 m	3020 070/1.0.1	
Length: 2.0 m	3020 070/2.0.1	
Length: 3.0 m	3020 070/3.0.1	

CobiNet test cord 2/4, 4-pin, LSA 2/4 - 4x banana plug

- Separates a wire path
- With LSA plug and four banana plugs
- For LSA disconnection modules



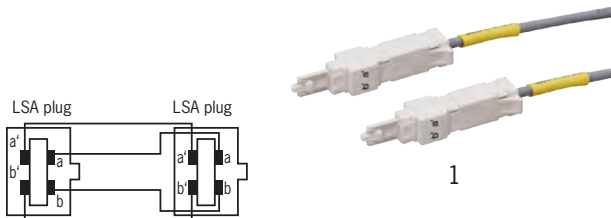
Item	Item no.	Fig.
Length: 0.2 m	3020 087/0.2.1	4
Length: 0.5 m	3020 087/0.5.1	
Length: 1.0 m	3020 087/1.0.1	
Length: 2.0 m	3020 087/2.0.1	
Length: 3.0 m	3020 087/3.0.1	

LSA series 2 profile rod

Connection cords

**CobiNet connection cord 2/4, 4-pin,
2x LSA 2/4**

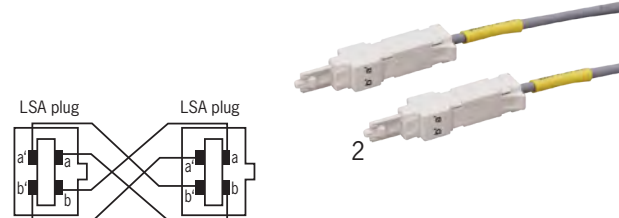
- With two LSA plugs for LSA disconnection modules
- Configuration: 1:1



Item	Item no.	Fig.
Length: 1.0 m	3020 095/1.0.1	1
Length: 2.0 m	3020 095/2.0.1	
Length: 3.0 m	3020 095/3.0.1	
Length: 5.0 m	3020 095/5.0.1	

**CobiNet connection cord 2/4, 4-pin,
2x LSA 2/4, intersected a1-b2**

- With two LSA plugs for LSA disconnection modules
- Configuration: a1-b2, a1'-b2', b1-a2, b1'-a2'



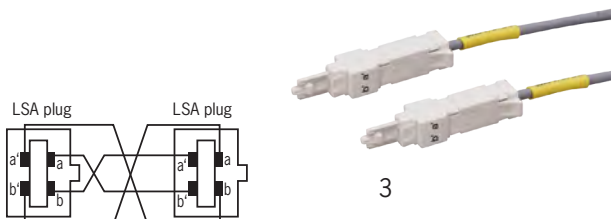
Item	Item no.	Fig.
Length: 1.0 m	3020 102/1.0.1	2
Length: 2.0 m	3020 102/2.0.1	
Length: 3.0 m	3020 102/3.0.1	
Length: 5.0 m	3020 102/5.0.1	

Additional lengths on request

**a/b = cable side
a'/b' = jumper side**

**CobiNet connection cord 2/4, 4-pin,
2x LSA 2/4, intersected a1-b2'**

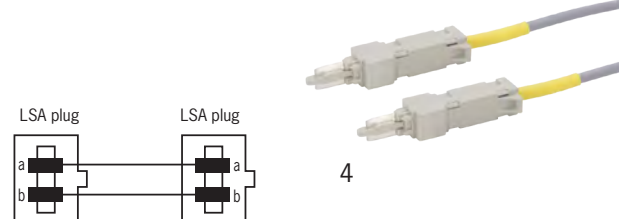
- With two LSA plugs for LSA disconnection modules
- Configuration: a1-b2', a1'-b2, b1-a2', b1'-a2



Item	Item no.	Fig.
Length: 1.0 m	3020 114/1.0.1	3
Length: 2.0 m	3020 114/2.0.1	
Length: 3.0 m	3020 114/3.0.1	
Length: 5.0 m	3020 114/5.0.1	

**CobiNet connection cord 2/2, 2-pin,
2x LSA 2/2**

- With two LSA plugs
- For LSA connection and disconnection modules



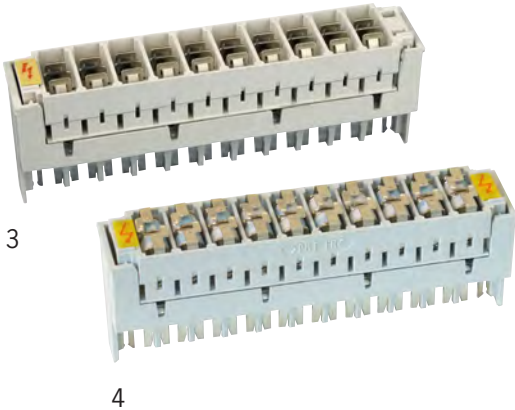
Item	Item no.	Fig.
Length: 1.0 m	3020 051/1.0.1	4
Length: 2.0 m	3020 051/2.0.1	
Length: 3.0 m	3020 051/3.0.1	
Length: 5.0 m	3020 051/5.0.1	

Overvoltage protection

CobiNet LSA overvoltage protection magazine 2/10 8x6, 2-pin

- Overvoltage protection for connection and disconnection modules 2/10
- Coarse protection
- Design H

Item	Item no.	Fig.
Unequipped, for 20 2-pole arresters 8x6	4020 003	3
Fitted with 20 2-pole arresters 8x6, 90 V, 10 kA	4020 003/B	
Fitted with 20 2-pole arresters 8x6, 230 V, 10 kA	4020 003/A	
Fitted with 20 2-pole arresters 8x6, 230 V, 10 kA, fail-safe	4020 003/C	4



CobiNet overvoltage arrester 8x6, 2-pole 10 kA

- Rated discharge current (8/20 μ s): 10 kA
- Rated alternating discharge current: 10 A
- Gas discharge tube
- High-quality industrial ceramic
- Filled with inert gas, hermetically sealed
- Free from radioactivity



5

Item	Item no.	Fig.
Rated direct response voltage: 90 V	4020 011/C	5
Rated direct response voltage: 230 V	4020 013/C	
Rated direct response voltage: 350 V	4020 037	

CobiNet overvoltage arrester 8x6, 2-pole 20kA

- Rated discharge current (8/20 μ s): 20 kA
- Rated alternating discharge current: 20 A
- Gas discharge tube
- High-quality industrial ceramic
- Filled with inert gas, hermetically sealed
- Free from radioactivity



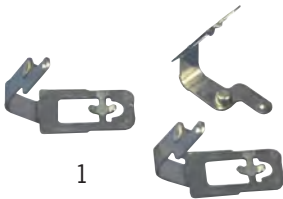
6

Item	Item no.	Fig.
Rated direct response voltage: 90 V	4020 039	6
Rated direct response voltage: 230 V	4020 043	
Rated direct response voltage: 350 V	4020 047	

CobiNet thermal overload protection (fail-safe) 2-pin

- For protection against permanent overloading of the overvoltage arrester
- For overvoltage arrester 8x6

Item	Item no.	Fig.
Thermal overload protection (fail-safe)	4020 004	1

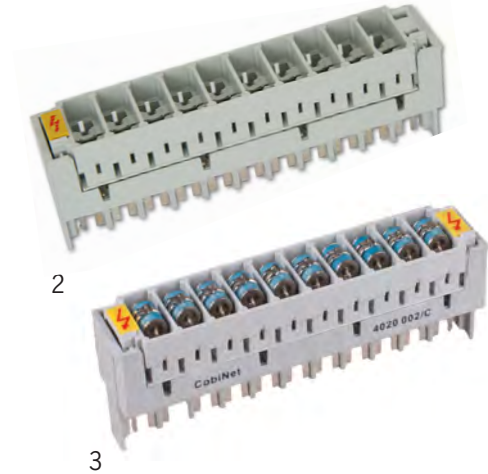


1

CobiNet LSA overvoltage protection magazine 2/10 8x10(13), 3-pin

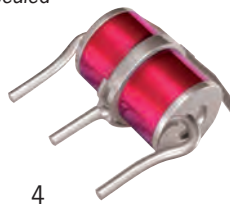
- Overvoltage protection for connection and disconnection modules 2/10
- Coarse protection
- Design T

Item	Item no.	Fig.
Unequipped for 10 3-pole arresters 8x10(13) with pins	4020 002	2
Fitted with 10 3-pole arresters 8x10(13), 90 V, 10 kA	4020 002/B	
Fitted with 10 3-pole arresters 8x10(13), 230 V, 10 kA	4020 002/A	
Fitted with 10 3-pole arresters 8x10, 230 V, 10 kA, fail-safe	4020 002/C	3



CobiNet overvoltage arrester 8x10(13), 3-pole 10 kA

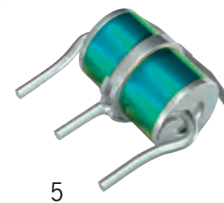
- Rated discharge current (8/20 μ s): 10 kA
- Rated alternating discharge current: 10 A
- Gas discharge tube
- High-quality industrial ceramic
- Filled with inert gas, hermetically sealed
- Free from radioactivity



Item	Item no.	Fig.
With pins Rated direct response voltage: 90 V	4020 052	
With pins, and upper fail-safe Rated direct response voltage: 90 V	4020 053	4
With pins Rated direct response voltage: 230 V	4020 016	
With pins, and upper fail-safe Rated direct response voltage: 230 V	4020 018	
With pins Rated direct response voltage: 350 V	4020 017	
With pins, and upper fail-safe Rated direct response voltage: 350 V	4020 019	

CobiNet overvoltage arrester 8x10(13), 3-pole 20 kA

- Rated discharge current (8/20 μ s): 20 kA
- Rated alternating discharge current: 20 A
- Gas discharge tube
- High-quality industrial ceramic
- Filled with inert gas, hermetically sealed
- Free from radioactivity

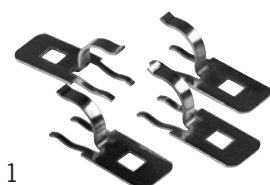


Item	Item no.	Fig.
With pins Rated direct response voltage: 230 V	4020 066	5
With pins, and upper fail-safe Rated direct response voltage: 230 V	4020 067	
With pins Rated direct response voltage: 350 V	4020 076	
With pins, and upper fail-safe Rated direct response voltage: 350 V	4020 077	

Overvoltage protection

CobiNet profile rod earthing contact clamp

- Establishes a conductive connection between overvoltage protection components and the profile rod
- 2 earthing contact clamps are required for each LSA module



Item	Item no.	Fig.
Profile rod earthing contact clamp	3050 001	1

CobiNet magazine cover 2/10

- For overvoltage protection magazines 2/10 in designs H and T
- For use as dust and contact protection
- Allows for visual inspection of the arresters
- No label holder can be attached when cover is being used
- Transparent



Item	Item no.	Fig.
Magazine cover 2/10	4020 005	2

CobiNet earth bar 2/10

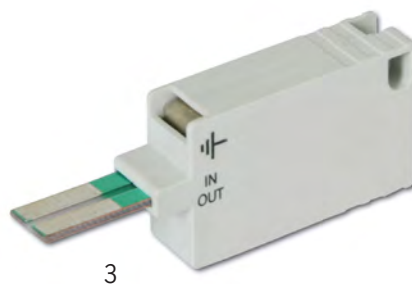
- Establishes an earth connection between the 1-twisted-pair protective plugs or earth plugs and the distribution frame



Item	Item no.	Fig.
Earth bar 2/10	4010 044	3

CobiNet overvoltage/overcurrent protection 2/1 G PTC

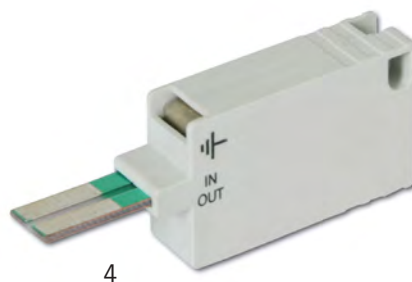
- 1-twisted-pair coarse protection with fail-safe
- Overcurrent protection via PTC (self-resetting fuse)
- Rated operating voltage, DC: 110 V
- Maximum continuous voltage, DC: 180 V
- Rated operating current: 150 mA
- Max. rated discharge current (8/20 μ s): 10 kA
- Max. transmission frequency (fg): 10 MHz
- For attachment onto series 2 LSA disconnection and switching modules



Item	Item no.	Fig.
Overvoltage/overcurrent protection 2/1 G PTC	4012 005	

CobiNet overvoltage protection 2/1 F

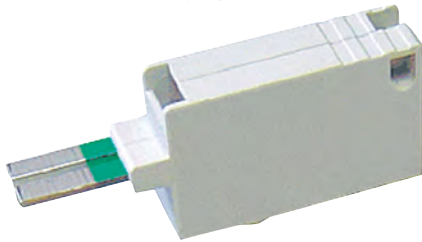
- 1 twisted pair coarse and fine protection with fail-safe
- Rated operating current: 150 mA
- Max. rated discharge current (8/20 μ s): 10 kA
- For attachment onto series 2 LSA disconnection and switching modules
- Rated operating voltage, DC: 12 V
- Maximum continuous voltage, DC: 14 V
- Max. transmission frequency (fg): 2.4 MHz



Item	Item no.	Fig.
Overvoltage protection 2/1 F	4012 021	2

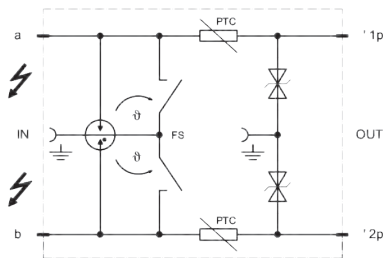
CobiNet overvoltage/overcurrent protection 2/1 F PTC

- 1 twisted pair coarse and fine protection with fail-safe
- Overcurrent protection via PTC (self-resetting fuse)
- Rated operating current: 150 mA
- Max. rated discharge current (8/20 μ s): 10 kA
- For attachment onto series 2 LSA disconnection and switching modules
- Rated operating voltage, DC: 5 V
- Maximum continuous voltage, DC: 6 V
- Max. transmission frequency (fg): 1.6 MHz



1

Rated voltage 48 V to 110 V



Number of protected cores:
1 twisted pair (2 cores)

Item	Item no.	Fig.
Overvoltage/overcurrent protection 2/1 F PTC	4012 003	1

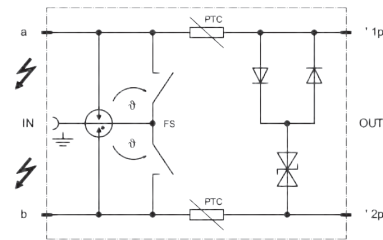
CobiNet overvoltage/overcurrent protection 2/1 F PTC

- 1 twisted pair coarse and fine protection with fail-safe
- Overcurrent protection via PTC (self-resetting fuse)
- Max. rated discharge current (8/20 μ s): 10 kA
- For attachment onto series 2 LSA disconnection and switching modules
- Rated operating current: 150 mA



2

Rated voltage 48 V to 110 V



Number of protected cores:
1 twisted pair (2 cores)

Item	Item no.	Fig.
Rated operating voltage, DC: 60 V	4012 007	2
Maximum continuous voltage, DC: 100 V		
Max. transmission frequency (fg): 5 MHz		
Rated operating voltage, DC: 24 V	4012 008	2
Maximum continuous voltage, DC: 29 V		
Max. transmission frequency (fg): 4.2 MHz		
Rated operating voltage, DC: 12 V	4012 009	2
Maximum continuous voltage, DC: 14 V		
Max. transmission frequency (fg): 2.4 MHz		
Rated operating voltage, DC: 60 V	4012 011	2
Maximum continuous voltage, DC: 100 V		
Max. transmission frequency (fg): 30 MHz		
Rated operating voltage, DC: 48 V	4012 012	2
Maximum continuous voltage, DC: 80 V		
Max. transmission frequency (fg): 30 MHz		
Rated operating voltage, DC: 5 V	4012 013	2
Maximum continuous voltage, DC: 6 V		
Max. transmission frequency (fg): 30 MHz		
Rated operating voltage, DC: 15 V	4012 014	2
Maximum continuous voltage, DC: 19 V		
Max. transmission frequency (fg): 3.1 MHz		

Sample application, protection technology

Application	Max. operating voltage for the network in V	Operating current in mA	Required frequency range, transfer speed	CobiNet Preferred type
-------------	---	-------------------------	--	------------------------

Telecommunications

Analogue lines Overvoltage protection with gas discharge tube (overvoltage arrester) Overvoltage protection and overcurrent protection with overvoltage arrester + PTC	170V	< 150 mA	4 kHz	4012 005
ISDN S ₀ interface (S ₀ bus end devices)	42 V	< 150 mA	192 kbit/s	4012 012
ISDN UK ₀ interface (1 twisted pair trunk line to NTBA)	170 V	< 150 mA	2 Mbit/s	4012 010 4012 010
PMXA (primary multiplexer, connection of 2 twisted pairs to NTPM)	60 V	< 150 mA	2 Mbit/s	4012 011
PCM (without external supply)	5V	< 150 mA	2 Mbit/s	4012 013
PCM (with 100 V external supply)	110V	< 150 mA	2 Mbit/s	4012 010
Modem for telecommunications lines	60 V	< 150 mA	64 kbit/s 2 Mbit/s	4012 007 4012 012
Modem for Datex P	12V	< 150 mA	48 kbit/s 2 Mbit/s 64 kbit/s	4012 009 4012 014 4012 021

Interface data lines

RS232	12V	< 150 mA	20 kbit/s	4012 009
RS485	5V	< 150 mA	2 Mbit/s	4012 013
Ethernet	5V	< 150 mA	20 Mbit/s	4012 013
Token Ring	5V	< 150 mA	16 Mbit/s	4012 013

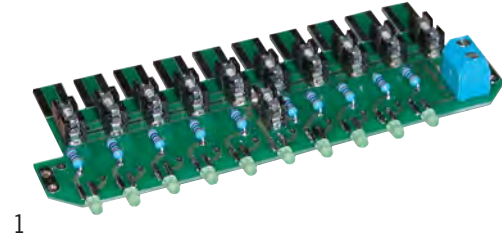
MSR applications

TTL level	5V	< 150 mA	48 kbit/s	4012 003
TTY level	24 V	< 150 mA	64 kbit/s	4012 008

CobiNet power supply plug-in board 2/10

- For LSA disconnection module 2/10
- External power supply required via 12 V power supply unit
- 10 fused outlets incl. miniature fuses 1.6 A
- Visual fuse monitoring via LED
- LEDs go out if the associated fuses have blown

Item	Item no.	Fig.
Power supply plug-in board 2/10	3030 170	1

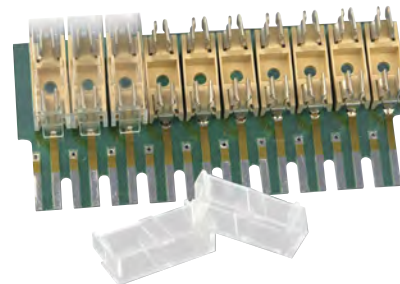


1

CobiNet micro-fuse plug-in board 2/10

- For the accommodation of 10 micro-fuses
- For LSA disconnection modules 2/10 for 10 twisted pairs
- Incl. transparent cover as contact protection

Item	Item no.	Fig.
Micro-fuse plug-in board 2/10	3030 135	2

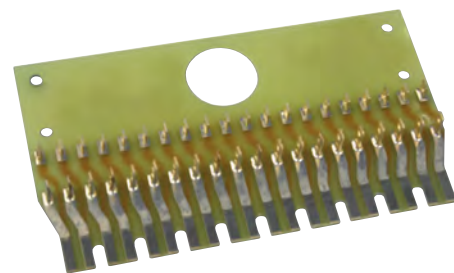


2

CobiNet plug-in board 2/10 with 40 solder contacts

- For LSA disconnection modules 2/10

Item	Item no.	Fig.
Plug-in board 2/10 with 40 solder contacts	3030 169	3



3

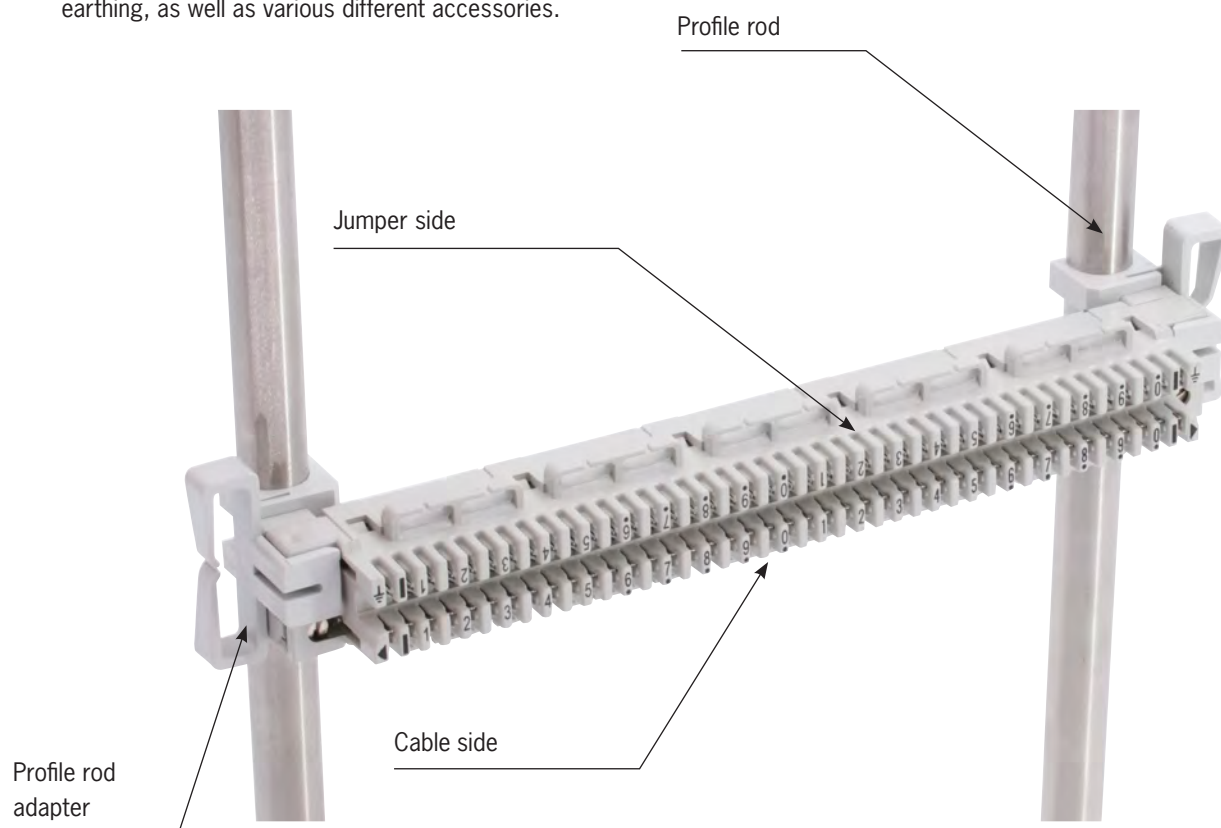
LSA series 1 profile rod

LSA series 1 for profile rods

The LSA series 1 for profile rods is made up of conventional 20-twisted-pair modules with an attachment dimension of 170 mm.

The snap-on mounting of 2 profile rod adapters (factory-assembled) means that these modules can be used in the profile rod distributors VKA/VKU/VdS and in fire protection distributors for the distribution of telecommunications cables.

Series 1 for profile rods features connection modules with 20 twisted pairs, earth modules with a screw connection for earthing, as well as various different accessories.



LSA series 1 profile rod

LSA series 1 for profile rods

CobiNet connection module 1/20 for 20 twisted pairs

- As per DIN 47608 Form B
- Printed: Jumper and cable side 1...0 (2x)
- The profile rod adapters can be removed in the case of screw attachment
- Large jumper wire guides

Item	Item no.	Fig.
For round rod attachment	1010 006/P	1



1

CobiNet earth module 1/84

- As per DIN 47608 Form B
- For connecting earth drain wires to the earth connection
- The profile rod adapters can be removed in the case of screw attachment
- Large jumper wire guides

Item	Item no.	Fig.
For round rod attachment	1010 010/P	2



2

CobiNet hinged label holder 1/20

- With printed paper label and transparent cover
- Printed: On one side 1...0 (2x)



3

Item	Item no.	Fig.
For attachment onto LSA modules (20 twisted pairs)	3030 099	3

CobiNet test cord 1/1

- For LSA connection modules with 20 twisted pairs
- 2-pin cable with an LSA plug and 2 jacks for banana plugs
- Length: 0.2 m



4

Item	Item no.	Fig.
Test cord 1/1	3020 001/0.2	4

CobiNet marking cap 1/1, red

- For labelling important twisted pairs on the LSA connection modules with 20 twisted pairs



5



Sample application

Item	Item no.	Fig.
Marking cap 1/1, red	3030 100	5

Distributor housings

CobiNet VKA distributor housing, surface-mounted with profile rods

- Steel plate distributor box
- For the accommodation of LSA-HD® RS and LSA series 2 (BR2) modules and LSA series 1 (20-twisted-pair) modules on profile rods
- Pluggable overvoltage protection, earthing option at the box
- Incl. sash fastener
- Plastic cable feeds and jumper wire guides
- Protection class: IP42
- RAL 9016 (traffic white)



Ready-to-assemble
delivery!

1



Position of the
profile rod when
using series 1
modules



Distributor size	Series	LSA-HD® RS	BR2	BR1	Item no.	Fig.
VKA1 Dimensions (W x H x D): 203 x 233 x 115 mm		100 twisted pairs (1 x 10 modules)	60 twisted pairs (1 x 6 modules)	-	2030 201	
VKA2 Dimensions (W x H x D): 203 x 333 x 115 mm		110 twisted pairs (1 x 11 modules)	70 twisted pairs (1 x 7 modules)	100 twisted pairs (1 x 5 modules)	2030 202	1
VKA4 Dimensions (W x H x D): 333 x 333 x 115 mm		200 twisted pairs (1 x 20 modules)	120 twisted pairs (1 x 12 modules)	160 twisted pairs (1 x 8 modules)	2030 204	
VKA8 Dimensions (W x H x D): 333 x 553 x 115 mm		400 twisted pairs (2 x 20 modules)	240 twisted pairs (2 x 12 modules)	320 twisted pairs (2 x 8 modules)	2030 208	
VKA12 Dimensions (W x H x D): 553 x 553 x 115 mm		700 twisted pairs (2 x 35 modules)	400 twisted pairs (2 x 20 modules)	600 twisted pairs (2 x 15 modules)	2030 212	

CobiNet locking system for VKA/VKU

- With 2 keys
- Cylinder sash fastener
- Locking mechanism EK 333

Item	Item no.	Fig.
Locking system for VKA/VKU	3060 056.1	2



2

CobiNet VKU distributor housing, flush-mounted with profile rods

- Steel plate distributor box
- For the accommodation of LSA-HD® RS, LSA series 2 (BR2) and LSA series 1 (20-twisted-pair) modules on profile rods
- Panel can be rotated up to 5° for optical adaptation
- Flexible front for level regulation
- Pluggable overvoltage protection, earthing option at the box
- Detachable door
- Incl. sash fastener
- Suitable for dry construction and flush-mounted assembly
- Plastic cable feeds and jumper wire guides
- Flush-mount frame, variable installation depth of up to 2 cm
- Protection class: IP42
- RAL 9016 (traffic white)

✓ Ready-to-assemble delivery!



Distributor size	Series	LSA-HD® RS	BR2	BR1	Item no.	Fig.
VKU2/profile rod for 110 twisted pairs Dimensions (W x H x D): 245 x 378 x 100 mm		110 twisted pairs (1 x 11 modules)	70 twisted pairs (1 x 7 modules)	100 twisted pairs (1 x 5 modules)	2030 602	1
VKU4/profile rod for 200 twisted pairs Dimensions (W x H x D): 375 x 378 x 100 mm		200 twisted pairs (1 x 20 modules)	120 twisted pairs (1 x 12 modules)	160 twisted pairs (1 x 8 modules)	2030 604	

Wall-mounted distribution cabinets

CobiNet WVP wall-mounted distribution cabinet with profile rod assembly channel

- Closed steel plate distribution cabinet
- For the accommodation of LSA-HD® RS and LSA series 2 (BR2) modules on profile rods
- Door with swivelling lever handle for profile half-cylinder and 3-point locking rod
- Incl. double-bit insert
- Cable entry from above and below via brush strips
- Protection class: IP40
- RAL 7035 (light grey)



Ready-to-assemble
delivery!



1

Distributor size	Series	LSA-HD® RS	BR2	Item no.	Fig.
WVP 170 Dimensions (W x H x D): 400 x 600 x 220 mm		170 twisted pairs (1 x 17 modules)	100 twisted pairs (1 x 10 modules)	2040 032	
WVP 340 Dimensions (W x H x D): 600 x 600 x 220 mm		340 twisted pairs (2 x 17 modules)	200 twisted pairs (2 x 10 modules)	2040 033	
WVP 640 Dimensions (W x H x D): 600 x 800 x 220 mm		680 twisted pairs (2 x 34 modules)	500 twisted pairs (2 x 25 modules)	2040 034	1
WVP 1000 Dimensions (W x H x D): 600 x 1200 x 220 mm		1000 twisted pairs (2 x 50 modules)	700 twisted pairs (2 x 35 modules)	2040 035	
WVP 1500 Dimensions (W x H x D): 800 x 1300 x 220 mm		1500 twisted pairs (3 x 50 modules)	1050 twisted pairs (3 x 35 modules)	2040 036	
WVP 2010 Dimensions (W x H x D): 800 x 1300 x 220 mm		2010 twisted pairs (3 x 67 modules)	1350 twisted pairs (3 x 45 modules)	2040 037	

CobiNet IP54 upgrade kit for wall-mounted distribution cabinets with profile rod assembly channel

- 1 kit = 2 pcs
- Incl. sealing nipple



2



3

Item	Item no.	Fig.
Suitable for WVP Panel for PG glands (6x M25, 2x M32, 1x M40)	2040 999/1	
Suitable for WVP Panel for PG glands (6x M25, 6x M32, 4x M50)	2040 999/2	2
Suitable for WVP Panel for PG glands (11x M25, 8x M32, 6x M50)	2040 999/3	3

Free-standing distribution cabinets

CobiNet SVP free-standing distribution cabinet with profile rod assembly channel

- Closed steel plate distribution cabinet
- For the accommodation of LSA-HD® RS and LSA series 2 (BR2) modules on profile rods
- Door with swivelling lever handle for profile half-cylinder and 3-point locking rod
- Incl. double-bit insert
- Cabinet with removable side walls, stackable
- Cable entry from above via sponge rubber profile, from below via split base plate
- Protection class: IP54 with cable entry from below, otherwise IP40
- RAL 7035 (light grey)



Ready-to-assemble delivery!



Also available with mounting plate!



1

Distributor size	Series	LSA-HD® RS	BR2	Item no.	Fig.
SVP 2000 Dimensions (W x H x D): 600 x 2000 x 400 mm		2000 twisted pairs (2 x 100 modules)	1200 twisted pairs (2 x 60 modules)	2050 009	
SVP 3000 Dimensions (W x H x D): 800 x 2000 x 400 mm		3000 twisted pairs (3 x 100 modules)	1800 twisted pairs (3 x 60 modules)	2050 010	1
SVP 4000 Dimensions (W x H x D): 1000 x 2000 x 400 mm		4000 twisted pairs (4 x 100 modules)	2400 twisted pairs (4 x 60 modules)	2050 011	
SVP 5000 Dimensions (W x H x D): 1200 x 2000 x 400 mm		5000 twisted pairs (5 x 100 modules)	3000 twisted pairs (5 x 60 modules)	2050 012	

Free-standing distribution cabinets

CobiNet base for free-standing distribution cabinets with profile rod assembly channel, height: 100 mm



1

Item	Item no.	Fig.
Suitable for SVP 2000	5010 108	1
Suitable for SVP 3000	5010 109	
Suitable for SVP 4000	5010 110	
Suitable for SVP 5000	5010 111	

CobiNet base for free-standing distribution cabinets with profile rod assembly channel, height: 200 mm



2

Item	Item no.	Fig.
Suitable for SVP 2000	5010 104	2
Suitable for SVP 3000	5010 105	
Suitable for SVP 4000	5010 106	
Suitable for SVP 5000	5010 107	

CobiNet IP54 upgrade kit for free-standing distribution cabinets with profile rod assembly channel

- 1 kit = 2 pcs
- Incl. sealing nipple



3



4

Item	Item no.	Fig.
Suitable for SVP 2000 Panel for metric cable glands (6x M25, 6x M32, 4x M50)	2040 999/8	3
Suitable for SVP 3000 Panel for metric cable glands (10x M25, 8x M32, 6x M50)	2040 999/7	
Suitable for SVP 4000 Panel for metric cable glands (12x M25, 12x M32, 8x M50)	2040 999/5	4
Suitable for SVP 5000 Panel for metric cable glands (16x M25, 14x M32, 10x M50)	2040 999/6	

CobiNet profile half-cylinder with round cylinder

- Length: 40 mm
- For installation in swivelling lever handles

Item	Item no.	Fig.
Locking mechanism: EK 333 With 2 keys	3060 121	5
Locking mechanism: 15, 4-way key With 1 key	3060 126	
Locking mechanism: Double-bit, 3 mm	3060 124	



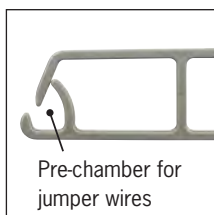
5

Wall-mounted distribution frames

CobiNet WVMP wall-mounted distribution frame with profile rod assembly channel as an assembly kit

- For the accommodation of LSA-HD® RS and LSA series 2 (BR2) modules on profile rods
- Incl. C rails for wall attachment
- Incl. horizontal and vertical jumper wire guide
- Incl. jumper wire brackets with pre-chamber

For jumper wire guide brackets and other accessories, see page 254 and onwards.



Additional designs
on request

Distributor size	Series	LSA-HD® RS	BR2	Item no.	Fig.
WVMP 1/340 Dimensions (W x H x D): 240 x 650 x 245 mm		340 twisted pairs (1 x 34 modules)	200 twisted pairs (1 x 20 modules)	6000-01-34	
WVMP 2/680 Dimensions (W x H x D): 480 x 650 x 245 mm		680 twisted pairs (2 x 34 modules)	400 twisted pairs (2 x 20 modules)	6000-02-34	
WVMP 3/1020 Dimensions (W x H x D): 720 x 650 x 245 mm		1020 twisted pairs (3 x 34 modules)	600 twisted pairs (3 x 20 modules)	6000-03-34	
WVMP 4/1360 Dimensions (W x H x D): 960 x 650 x 245 mm		1360 twisted pairs (4 x 34 modules)	800 twisted pairs (4 x 20 modules)	6000-04-34	1
WVMP 1/670 Dimensions (W x H x D): 240 x 1150 x 300 mm		670 twisted pairs (1 x 67 modules)	400 twisted pairs (1 x 40 modules)	6000-01-67	
WVMP 2/1340 Dimensions (W x H x D): 480 x 1150 x 300 mm		1340 twisted pairs (2 x 67 modules)	800 twisted pairs (2 x 40 modules)	6000-02-67	
WVMP 3/2010 Dimensions (W x H x D): 720 x 1150 x 300 mm		2010 twisted pairs (3 x 67 modules)	1200 twisted pairs (3 x 40 modules)	6000-03-67	
WVMP 4/2680 Dimensions (W x H x D): 960 x 1150 x 300 mm		2680 twisted pairs (4 x 67 modules)	1600 twisted pairs (4 x 40 modules)	6000-04-67	
WVMP 1/1000 Dimensions (W x H x D): 240 x 1650 x 300 mm		1000 twisted pairs (1 x 100 modules)	600 twisted pairs (1 x 60 modules)	6000-01-100	
WVMP 2/2000 Dimensions (W x H x D): 480 x 1650 x 300 mm		2000 twisted pairs (2 x 100 modules)	1200 twisted pairs (2 x 60 modules)	6000-02-100	
WVMP 3/3000 Dimensions (W x H x D): 720 x 1650 x 300 mm		3000 twisted pairs (3 x 100 modules)	1800 twisted pairs (3 x 60 modules)	6000-03-100	
WVMP 4/4000 Dimensions (W x H x D): 960 x 1650 x 300 mm		4000 twisted pairs (4 x 100 modules)	2400 twisted pairs (4 x 60 modules)	6000-04-100	

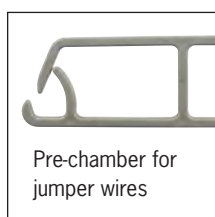
Wall-mounted/free-standing distribution frames

CobiNet WSMP wall-mounted/free-standing distribution frame with profile rod assembly channel as an assembly kit

- For the accommodation of LSA-HD® RS and LSA series 2 (BR2) modules on profile rods
- Incl. C rails for wall attachment
- Incl. horizontal and vertical jumper wire guide
- Incl. jumper wire brackets with pre-chamber
- Incl. impact protection tube

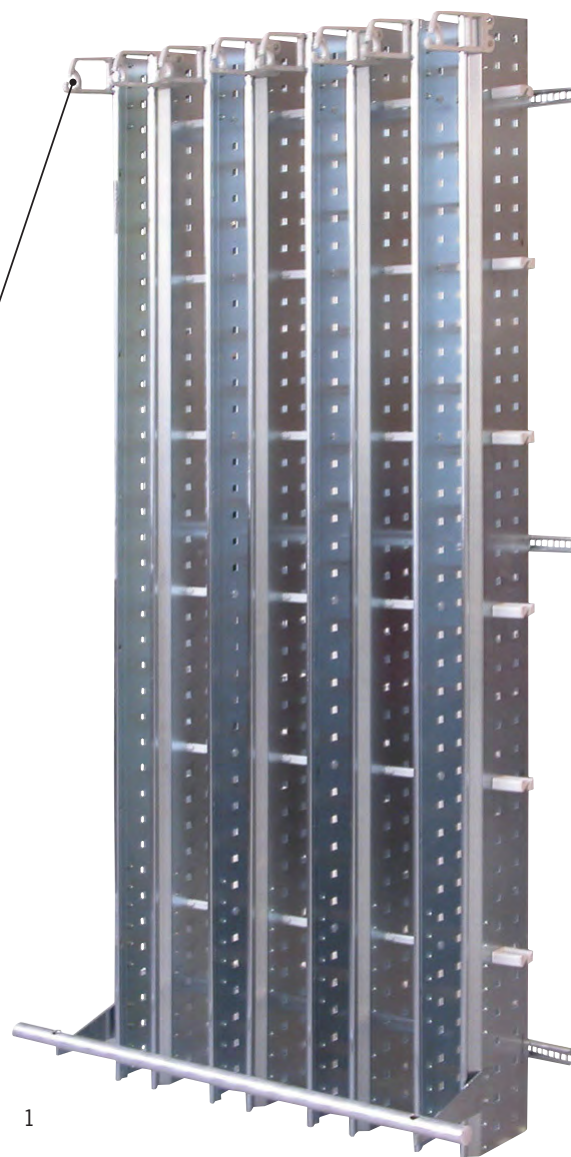


**Additional designs
on request**



Pre-chamber for
jumper wires

For additional jumper wire guide brackets and other accessories, see page 254 and onwards.



Distributor size	Series	LSA-HD® RS	BR2	Item no.	Fig.
WSMP 1/1000 Dimensions (W x H x D): 240 x 2000 x 380 mm		1000 twisted pairs (1 x 100 modules)	600 twisted pairs (1 x 60 modules)	6003-01-100	
WSMP 2/2000 Dimensions (W x H x D): 480 x 2000 x 380 mm		2000 twisted pairs (2 x 100 modules)	1200 twisted pairs (2 x 60 modules)	6003-02-100	
WSMP 3/3000 Dimensions (W x H x D): 720 x 2000 x 380 mm		3000 twisted pairs (3 x 100 modules)	1800 twisted pairs (3 x 60 modules)	6003-03-100	
WSMP 4/1000 Dimensions (W x H x D): 960 x 2000 x 380 mm		4000 twisted pairs (4 x 100 modules)	2400 twisted pairs (4 x 60 modules)	6003-04-100	1

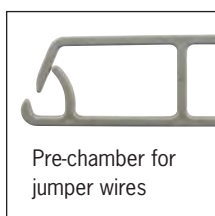
Free-standing distribution frames

CobiNet SVMP free-standing distribution frame with profile rod assembly channel as an assembly kit (free-standing, channels back-to-back)

- For the accommodation of LSA-HD® RS and LSA series 2 (BR2) modules on profile rods
- Incl. floor rail set and attachment material
- Incl. horizontal and vertical jumper wire guide
- Incl. jumper wire brackets with pre-chamber
- Incl. impact protection tube
- Ceiling fixtures and supports for double floors are available on request as optional extras
- Back-to-back channel assembly



Additional designs on request



Pre-chamber for jumper wires

For additional jumper wire guide brackets and other accessories, see page 254 and onwards.



1

Distributor size	Series	LSA-HD® RS	BR2	Item no.	Fig.
SVMP 1/2000 Dimensions (W x H x D): 240 x 2004 x 710 mm		2000 twisted pairs (2 x 100 modules)	1200 twisted pairs (2 x 60 modules)	6005-02-100	
SVMP 2/4000 Dimensions (W x H x D): 480 x 2004 x 710 mm		4000 twisted pairs (4 x 100 modules)	2400 twisted pairs (4 x 60 modules)	6005-04-100	
SVMP 3/6000 Dimensions (W x H x D): 720 x 2004 x 710 mm		6000 twisted pairs (6 x 100 modules)	3600 twisted pairs (6 x 60 modules)	6005-06-100	
SVMP 4/8000 Dimensions (W x H x D): 960 x 2004 x 710 mm		8000 twisted pairs (8 x 100 modules)	4800 twisted pairs (8 x 60 modules)	6005-08-100	1

Profile rod assembly channels

CobiNet profile rod assembly channels

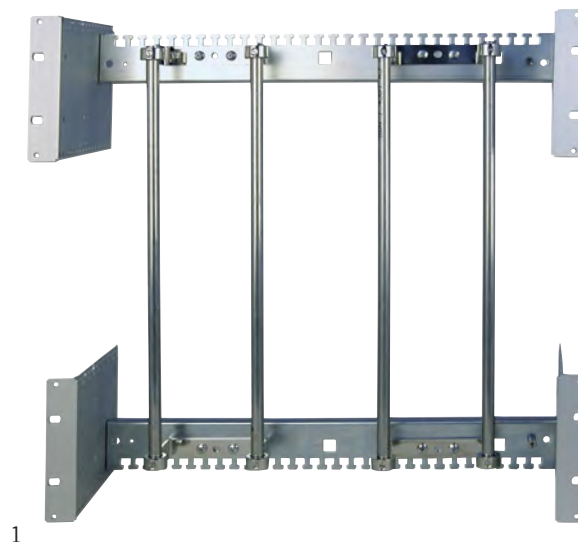
- For the accommodation of LSA-HD® RS and LSA series 2 (BR2) modules on profile rods



Assembly channel size	Series	LSA-HD® RS	BR2	Item no.	Fig.
Profile rod assembly channel 170 Dimensions (W x H x D): 120 x 300 x 85 mm		170 twisted pairs (1 x 17 modules)	100 twisted pairs (1 x 10 modules)	2-8100-300	1
Profile rod assembly channel 340 Dimensions (W x H x D): 120 x 662 x 85 mm		340 twisted pairs (1 x 34 modules)	200 twisted pairs (1 x 20 modules)	2-8100	
Profile rod assembly channel 500 Dimensions (W x H x D): 120 x 912 x 85 mm		500 twisted pairs (1 x 50 modules)	300 twisted pairs (1 x 30 modules)	2-8100-910	
Profile rod assembly channel 670 Dimensions (W x H x D): 120 x 1150 x 300 mm		670 twisted pairs (1 x 67 modules)	400 twisted pairs (1 x 40 modules)	2-8101-1150	
Profile rod assembly channel 1000 Dimensions (W x H x D): 120 x 1650 x 300 mm		1000 twisted pairs (1 x 100 modules)	600 twisted pairs (1 x 60 modules)	2-8102	
Profile rod assembly channel 1220 Dimensions (W x H x D): 120 x 2000 x 380 mm		1220 twisted pairs (1 x 122 modules)	700 twisted pairs (1 x 70 modules)	2-8115	

CobiNet distribution rack 19"

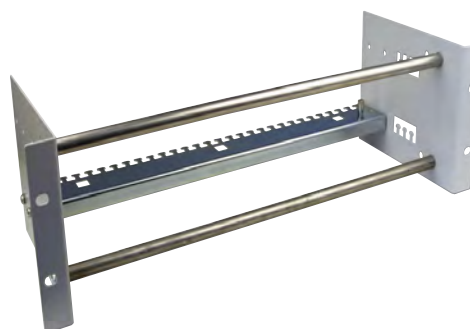
- For assembly in 19" (width: 482.6 mm) data cabinets
- With two vertical rows of profile rods
- For the accommodation of LSA-HD® RS and LSA series 2 (BR2) modules on profile rods
- Assembled
- Top/bottom cable fixation
- Sheath clamp for protective conductor connection

 Ready-to-assemble delivery!

Distributor size	Series	LSA-HD® RS	BR2	Item no.	Fig.
Distribution rack 19" 10 RU		320 twisted pairs (2 x 16 modules)	200 twisted pairs (2 x 10 modules)	2010 255/10	1
Distribution rack 19" 16 RU		660 twisted pairs (2 x 33 modules)	400 twisted pairs (2 x 20 modules)	2010 255/16	
Distribution rack 19" 21 RU		1000 twisted pairs (2 x 50 modules)	600 twisted pairs (2 x 30 modules)	2010 255/21	

CobiNet distribution rack 19"

- For assembly in 19" (width: 482.6 mm) data cabinets
- With two horizontal 12 mm stainless steel profile rods
- For the accommodation of LSA-HD® RS and LSA series 2 (BR2) modules on profile rods
- Assembled
- Rear cable fixation
- RAL 7035 (light grey)

 Ready-to-assemble delivery!

Distributor size	Series	LSA-HD® RS	BR2	Item no.	Fig.
Distribution rack 19" 3 RU		300 twisted pairs (1 x 30 modules)	150 twisted pairs (1 x 15 modules)	5010 079/C	2
Distribution rack 19" 4 RU with integrated jumper wire guide		300 twisted pairs (1 x 30 modules)	150 twisted pairs (1 x 15 modules)	5010 079/I	

Profile rod

Accessories for distribution technology

CobiNet profile rod

- *Stainless steel*
- *Diameter: 12 mm*



Profile rod size	Series	LSA-HD® RS	BR2	Item no.	Fig.
Solid profile rod without thread Length: 605 mm		300 twisted pairs (1 x 30 modules)	200 twisted pairs (1 x 20 modules)	3050 007/M	3
Solid profile rod without thread Length: 880 mm		500 twisted pairs (1 x 50 modules)	300 twisted pairs (1 x 30 modules)	3050 008/M	
Solid profile rod without thread Length: 1155 mm		670 twisted pairs (1 x 67 modules)	400 twisted pairs (1 x 40 modules)	3050 009/M	
Solid profile rod without thread Length: 1430 mm		830 twisted pairs (1 x 83 modules)	500 twisted pairs (1 x 50 modules)	3050 010/M	
Solid profile rod without thread Length: 1705 mm		1000 twisted pairs (1 x 100 modules)	600 twisted pairs (1 x 60 modules)	3050 011/M	
Hollow profile rod with thread M6 on end faces Length: 605 mm		300 twisted pairs (1 x 30 modules)	200 twisted pairs (1 x 20 modules)	3050 007/H	4
Hollow profile rod with thread M6 on end faces Length: 880 mm		500 twisted pairs (1 x 50 modules)	300 twisted pairs (1 x 30 modules)	3050 008/H	
Hollow profile rod with thread M6 on end faces Length: 1155 mm		670 twisted pairs (1 x 67 modules)	400 twisted pairs (1 x 40 modules)	3050 009/H	
Hollow profile rod with thread M6 on end faces Length: 1430 mm		830 twisted pairs (1 x 83 modules)	500 twisted pairs (1 x 50 modules)	3050 010/H	
Hollow profile rod with thread M6 on end faces Length: 1705 mm		1000 twisted pairs (1 x 100 modules)	600 twisted pairs (1 x 60 modules)	3050 011/H	

CobiNet profile rod bracket U

- For the construction of profile rod bays
- For 12 mm profile rods with and without thread
- Profile rod spacing: 95 mm

Item	Item no.	Fig.
Depth: 46 mm	3050 004	1
Depth: 86 mm	3050 005	
Depth: 170 mm	3050 006	



CobiNet profile rod bracket L

- For the construction of profile rod bays
- For 12 mm profile rods with thread
- Construction depth: 86 mm

Item	Item no.	Fig.
Profile rod bracket L	3050 002	2

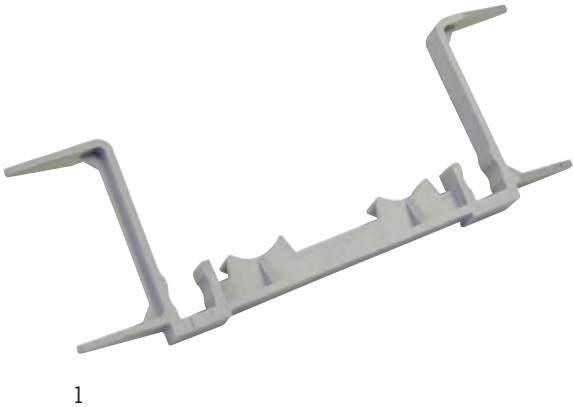


Accessories for distribution technology

CobiNet profile rod jumper wire guide

- Two-sided
- For clipping onto rows of profile rods and for vertically guiding the jumper wires
- 1 kit = 2 pcs

Item	Item no.	Fig.
Profile rod jumper wire guide	3050 015	1



CobiNet dummy plate for profile rods

- For covering unassigned module spaces

Item	Item no.	Fig.
Number of modules: 1 Height: 25 mm	2800 801	2



CobiNet jumper wire roll holder

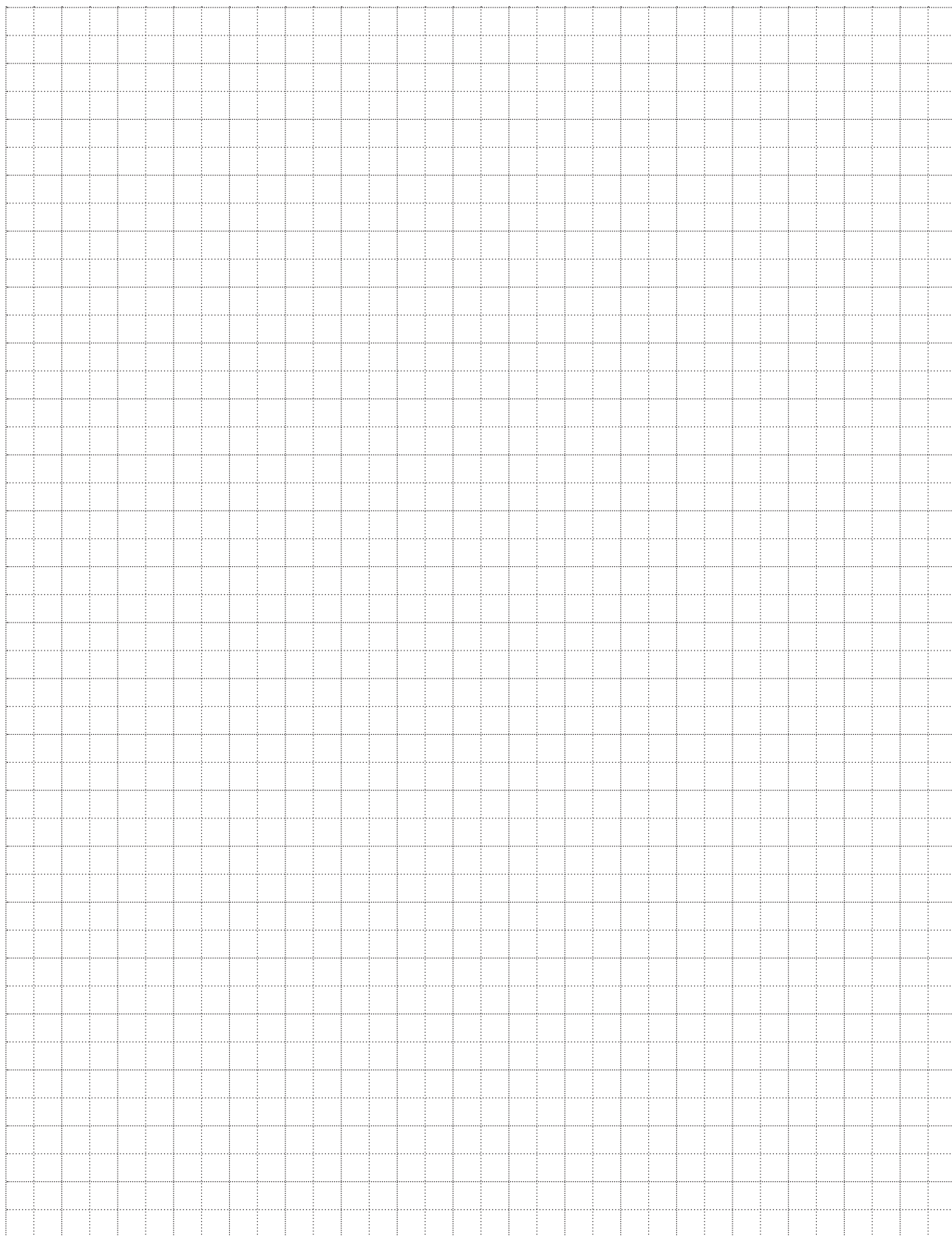
- For hanging a roll of jumper wire above a profile rod assembly channel

Item	Item no.	Fig.
For profile rod assembly channels	2-8115/L.1	3



Sample application

Make plans with us.



About LSA-TL

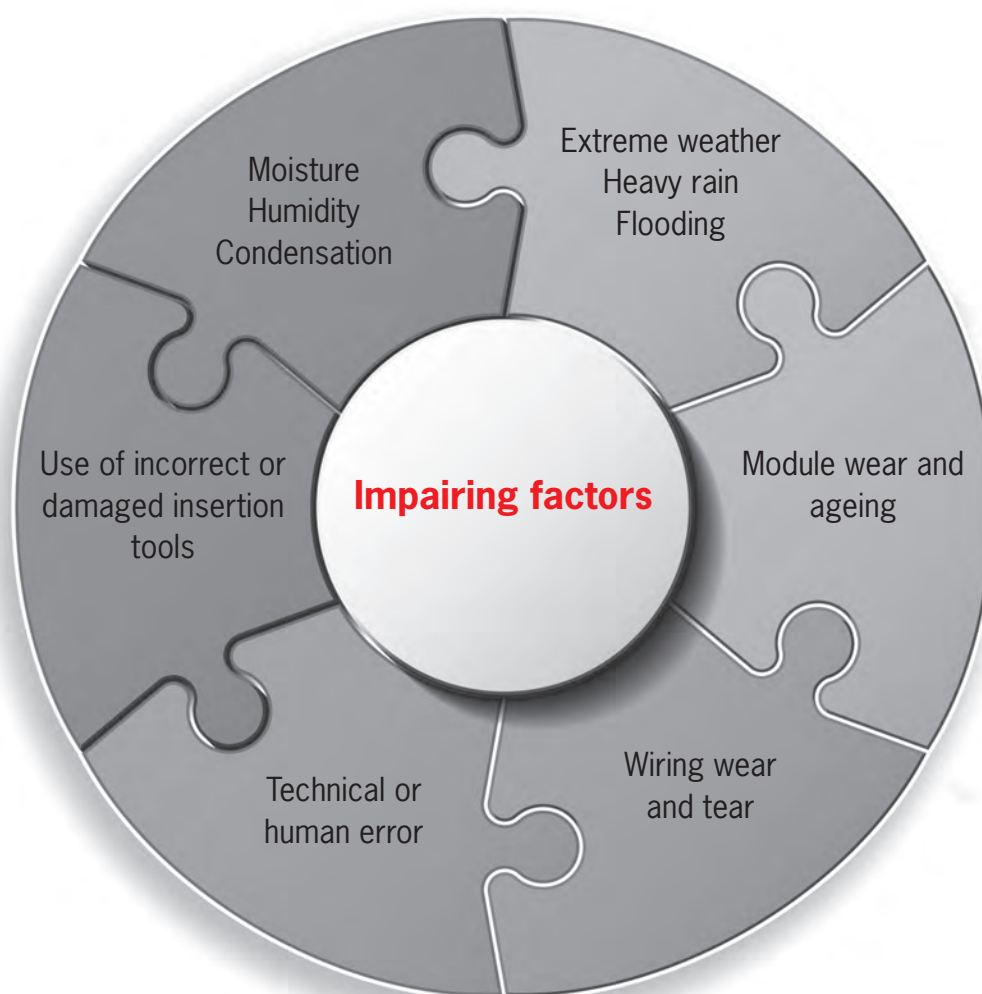
LSA: Soldering, screwing and stripping-free

TL: Toolless

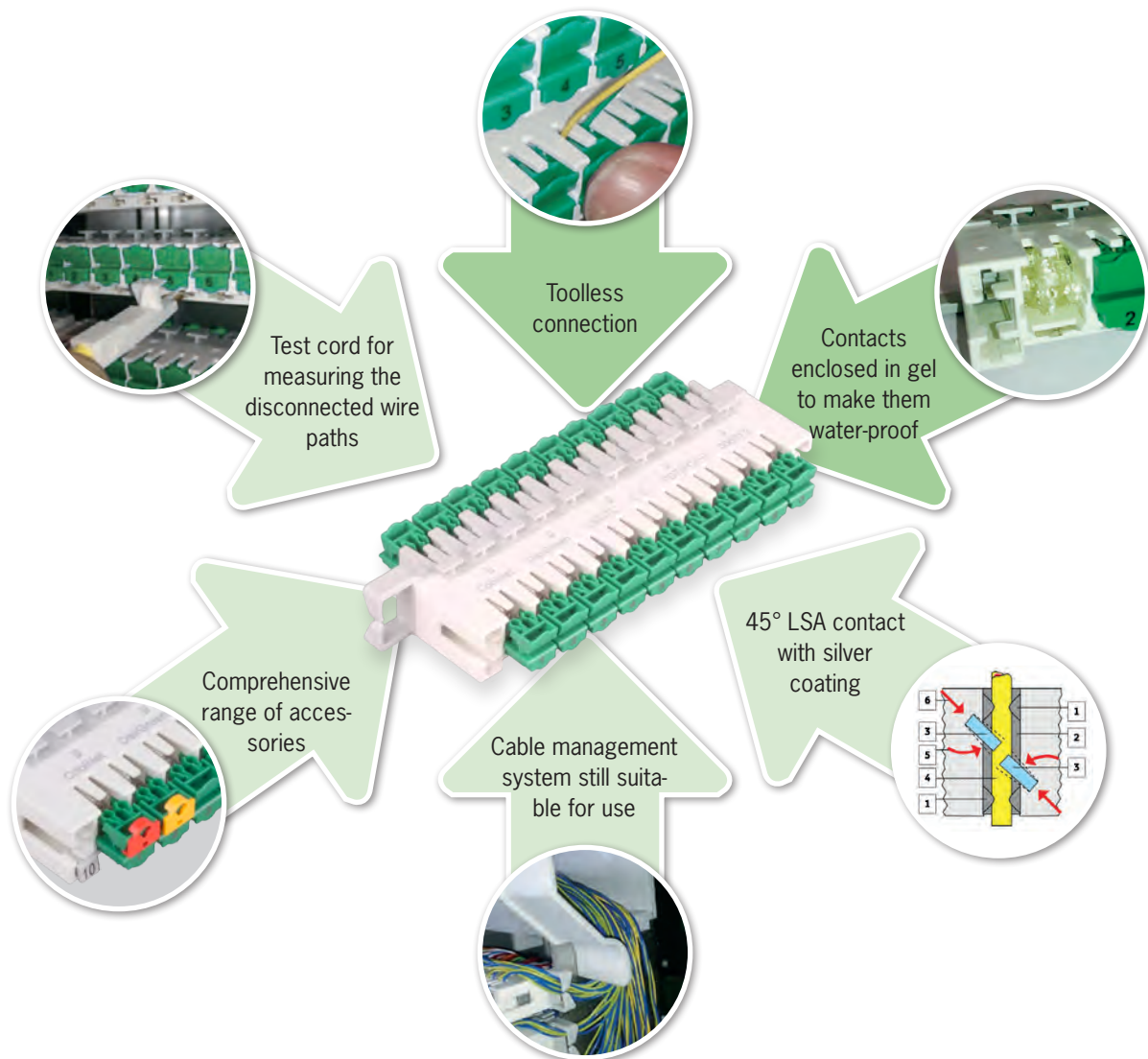
Reasons to purchase a new 10-twisted-pair module – common problems with cross-connection cabinets

The telecommunications module is one of the most important components in the provision of all types of telecommunication services, including broadband, in all access networks.

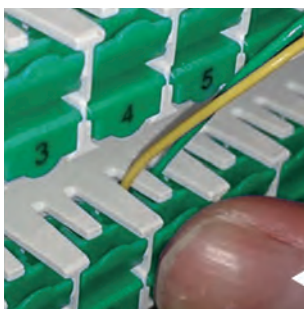
The first step towards improving the associated technology involves identifying the basic factors behind negative impacts on functional reliability.



Improvement solutions

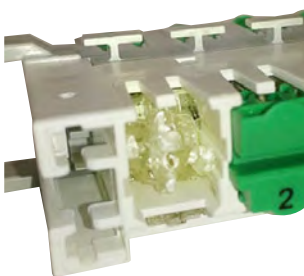


CobiNet LSA-TL



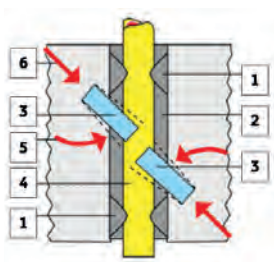
Toolless connection

The sliders that are used to insert the cores into the LSA contacts can be operated with the thumb or fingers both on the cable side and the jumper side of the LSA-TL disconnection module. When the slider is opened, the cable remains connected in order to prevent any unintentional interruptions.



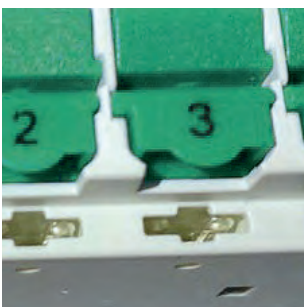
Gel filling

The LSA contacts are enclosed in elastic gel. This provides protection against the ingress of moisture and condensation, thereby preventing corrosion-induced wear as well as errors due to insulation resistance problems. The modules are also water-proof, meaning that large parts of the network will remain functional even in the event of flooding. The gel remains intact for at least 100 connections.



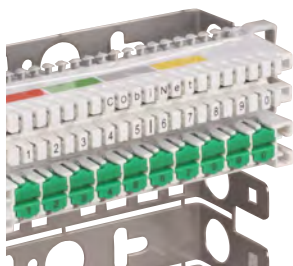
45° silver-plated LSA contact

The LSA contact (soldering, screwing and stripping-free) is positioned at a 45° angle to the core. The resulting rotational and restoring forces ensure particularly good contact reliability. The angled contact position also increases the contact area, while also reducing the amount of core tapering at the cutting point.



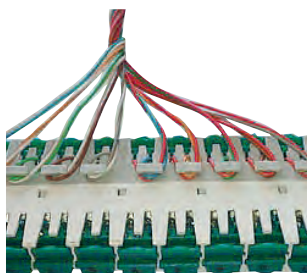
Disconnection function of the test openings

The test openings enable the disconnection of contacts in order to carry out measurements in both directions without having to remove the cores. The contacts are coated with silver in order to ensure high levels of durability and performance in high-frequency applications.



Full compatibility with series 2/10 modules

Regardless of the grid dimension or the backmount frame depth, each series 2 LSA module for assembly channels can be directly replaced with an LSA-TL module without any need for an adapter.



Integrated strain relief

The newly developed integrated strain relief makes it possible to protect pairs of cores against mechanical strain quickly, cleanly and without the need for any additional tools.



Backmount frames

The CobiNet product range includes a large number of backmount frames with grid dimensions of 22.5 to 27.5 mm and depths of 22 to 50 mm. The flexible design means that the frames can be cut to the required length using simple wire cutters.



Assembly adapters

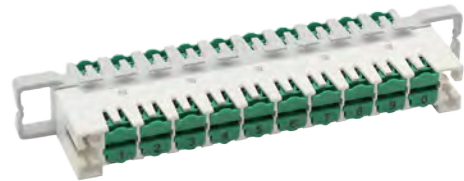
If the twisted pairs of cores need to be switched to individually during switchovers in order to prevent long interruptions to multiple subscribers, the wiring aid is the perfect solution. This tool makes it possible to terminate the connection or jumpering without having to continually rotate the module. This "additional hand" will save you time and give you a defined cable length for subsequent modifications within the system.

Product overview

CobiNet LSA-TL disconnection modules, 10 twisted pairs

- Printed: 1...0
- Toolless connection
- Water-proof connection
- Fully compatible with series 2 backmount frame

Item	Item no.	Fig.
LSA-TL disconnection module for 10 twisted pairs Green slider, jumpering on both sides	1014 1110	1



1

CobiNet LSA-TL overvoltage protection magazine

- Overvoltage protection magazine for LSA-TL modules
- For 10 twisted pairs, fitted with 10x 3-pole arresters, 230 V, 5 kA, fail-safe
- For connection at the front

Item	Item no.	Fig.
LSA-TL overvoltage protection magazine	1014 2052	2

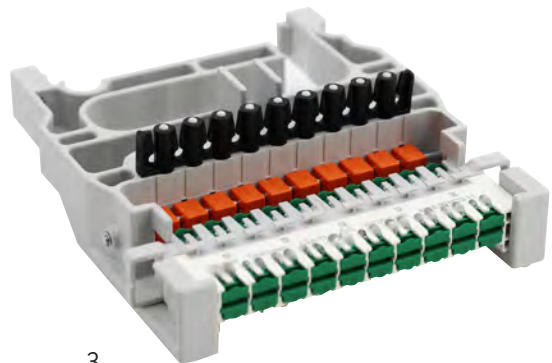


2

CobiNet LSA-TL assembly adapter

- Assembly aid for attachment onto the backmount frame
- Quicker pre-sorting thanks to integrated core management
- Convenient connection as assembly supports can be snapped in individually
- Sufficient core reserve guaranteed automatically

Item	Item no.	Fig.
LSA-TL assembly adapter	1014 3100	3



3

CobiNet LSA-TL test cord

- 4-pin
- Fitted with a test plug, for separating the wire paths, and with 4 jacks (4 mm) for banana plugs
- Length: 0.2 m

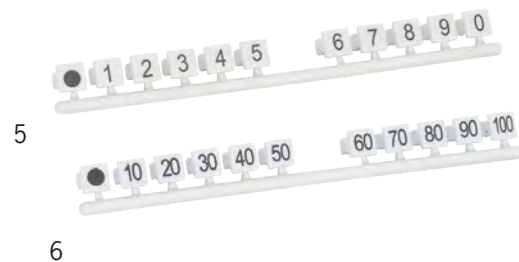
Item	Item no.	Fig.
LSA-TL test cord	1014 32204/0.2	3



CobiNet plug number set

- For labelling LSA-TL modules
- Colour: Grey

Item	Item no.	Fig.
Plug number set 1...0	3030 051	5
Plug number set 10...100	3030 052	6
Plug number set 1...10	3030 057	
Plug number set 11...20	3030 058	
Plug number set 21...30	3030 059	
Plug number set 31...40	3030 060	
Plug number set 41...50	3030 061	
Plug number set 51...60	3030 062	
Plug number set 10...19	3030 180	
Plug number set 110...200	3030 181	

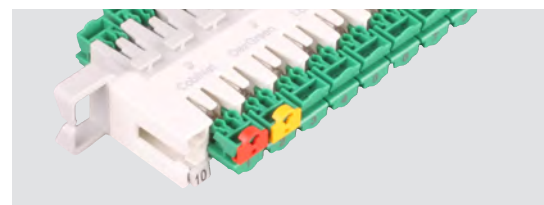


CobiNet LSA-TL marking cap, 1 twisted pair

- For labelling important twisted pairs on TL modules
- 1 set: 50 pcs



Item	Item no.	Fig.
LSA-TL marking cap, yellow	1014 35211	4
LSA-TL marking cap, red	1014 35215	



Sample application

Series 2 backmount frame

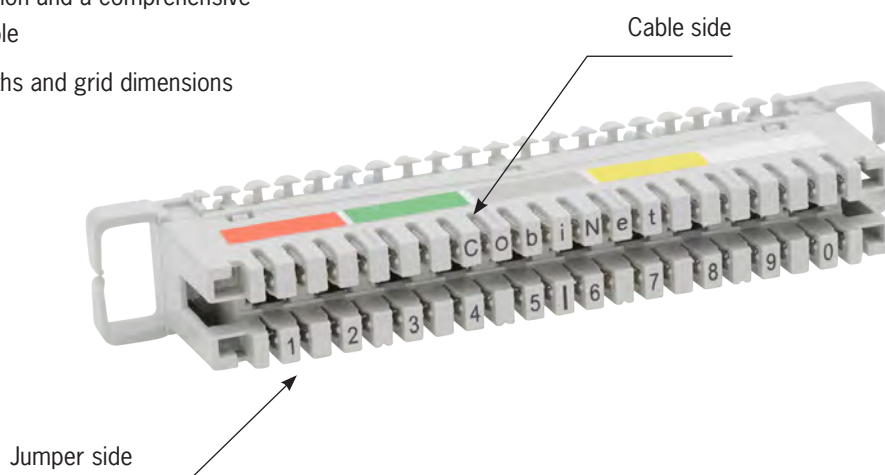
LSA series 2 for backmount frame

LSA: Soldering, screwing and stripping-free

The LSA series 2 has been used around the world for many years. The product range is tried-and-tested and extremely comprehensive, and there is a wide range of accessories as well as the LSA disconnection, connection and earth modules.

An overview of the features of the LSA series 2 backmount frame:

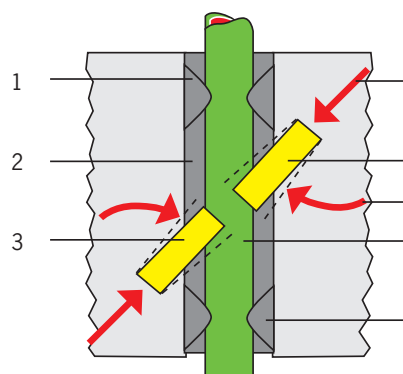
- Contact reliability: LSA contact with 45° incline ensures secure connections thanks to additional torsional forces
- Complete product range: Disconnection, connection and earth modules, overvoltage protection and a comprehensive range of accessories are all available
- Backmount frames in different depths and grid dimensions



LSA contact with 45° incline

The LSA contact with 45° incline was developed in 1978. It is synonymous with quality the world over, and has set standards internationally.

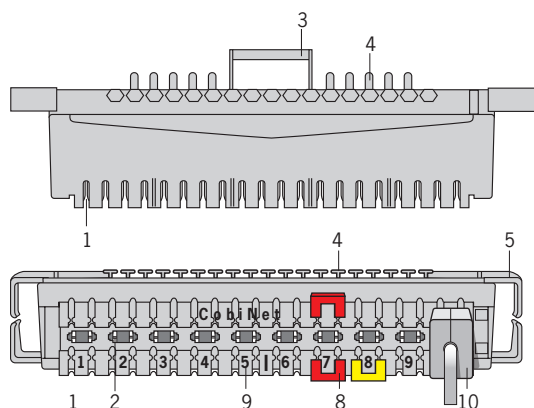
Thanks to its high level of contact reliability, excellent transfer properties and exemplary ease of assembly in combination with the LSA insertion tool with sensor, it has proven itself over several decades and has set a universal standard.



- 1 Plastic clamping fins
- 2 Contact slot
- 3 Contact jaws
- 4 Core
- 5 Contact's torsional forces
- 6 Contact's restoring forces

Series 2 backmount frame

Features of the LSA series 2 for backmount frame

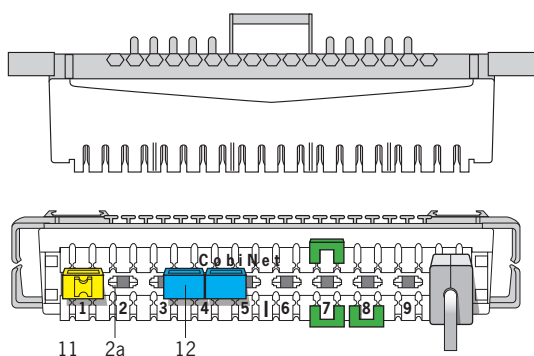


LSA connection module 2/10

- 1 Connecting contact
- 2 Centre contact for signal pick-up and testing (overvoltage protection)
- 3 Guide eyelet for wire bundles
- 4 Wire guidance comb and guide knobs for cable cores
- 5 Jumper wire guide
- 6 Opening for plug number
- 7 Plug number
- 8 Marking cap (accessory)
- 9 Number (pair no.) on jumper side (variable imprint)
- 10 Test cord (accessory)

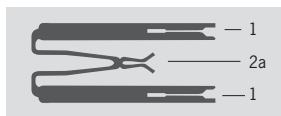


The cable side and the jumper side are permanently electrically connected to one another.

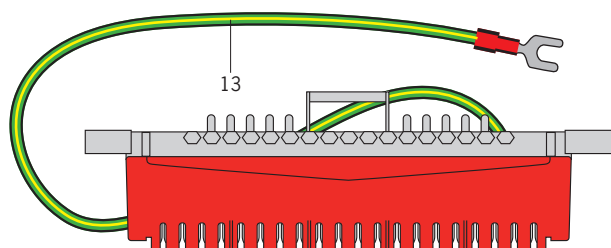


LSA disconnection module 2/10

- 2a Centre contact for disconnection, signal pick-up and testing (overvoltage protection)
- 11 Dummy plug (accessory)
- 12 Disconnection plug (accessory)



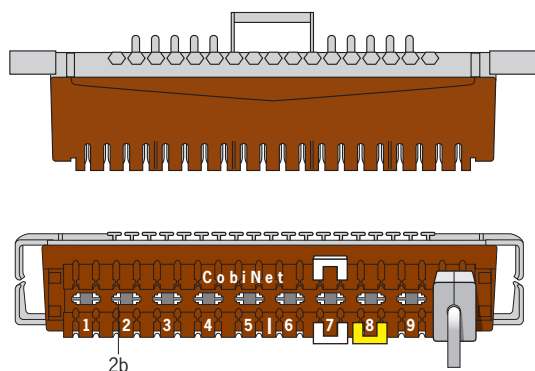
The cable side and the jumper side can be electrically disconnected using a disconnection plug.



LSA earth module 2/34

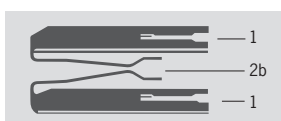
- 13 Earth wire for connection to earthing points

All earth module contacts are bridged with the earth wire.



LSA switching module

- 2b Switching contact for signal pick-up and testing (overvoltage protection)



The cable side and the jumper side are disconnected. Signal coupling via plug (structured cabling systems).

Modules for backmount frames/assembly channels

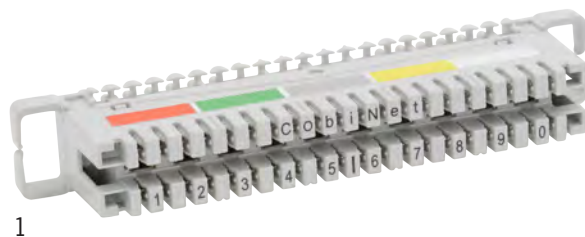
CobiNet connection module 2/10 for 10 twisted pairs

- For backmount frame/assembly channel
- Large jumper wire guides

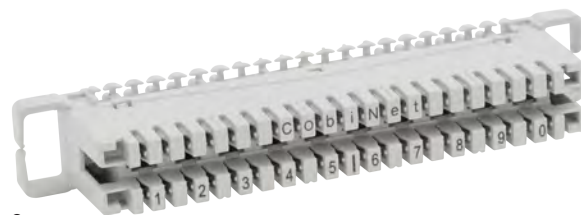
Item	Item no.	Fig.
With colour code Printed: Jumper wire side 1...0	1020 055	1
Without colour code Printed: Jumper wire side 1...0	1020 054	2



For overvoltage protection and special plug-in boards, see page 204.



1

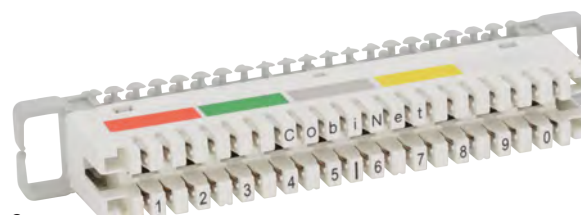


2

CobiNet disconnection module 2/10 for 10 twisted pairs

- For backmount frame/assembly channel
- Large jumper wire guides

Item	Item no.	Fig.
With colour code Printed: Jumper wire side 1...0	1020 053	3
Without colour code Printed: Jumper wire side 1...0	1020 052	4



3

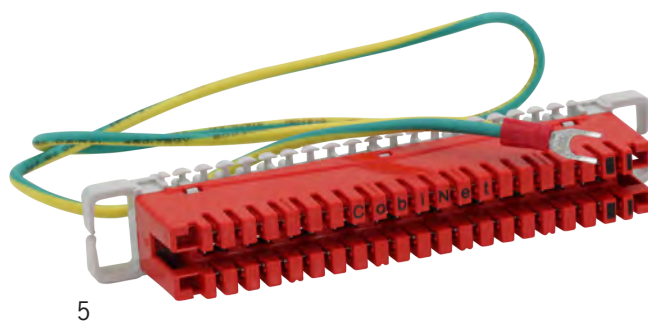


4

CobiNet earth module 2/38

- For backmount frame/assembly channel
- For connecting earth drain wires to the earth connection
- 38-pin
- Large jumper wire guides

Item	Item no.	Fig.
Earth module 2/38	1020 056	5

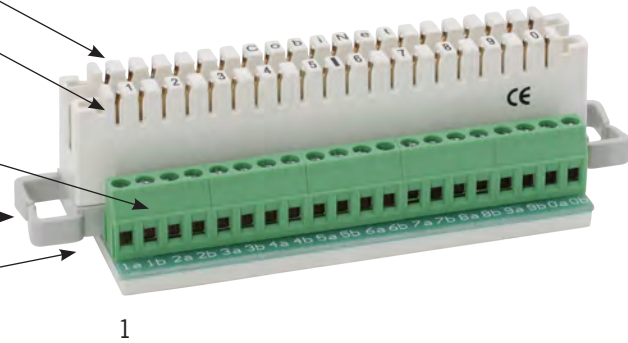


5

Modules for backmount frames/assembly channels

CobiNet disconnection module 2/10 SK for 10 twisted pairs

- Application area for power supply and in a power plant environment for the connection of outdoor cables (e.g. telecontrol systems)
- Printed: Jumper side 1...0
- Pluggable overvoltage protection
- High-quality screw terminal from Phoenix Contact for the connection of cores with a conductor cross-section of up to 2.5 mm²
- Large jumper wire guides
- Contact protection on the back
- Without colour code
- Verified quality from Germany
- For backmount frame/assembly channel



Item	Item no.	Fig.
With screw terminal on the jumper side	1020 029	1
With screw terminal on the jumper side and the cable side	1020 029/2	

Accessories

CobiNet LSA insertion tool with sensor

- For the soldering, screwing and stripping-free insertion and simultaneous cutting to length of cable cores on LSA modules
- With fold-out extraction hook and release blade
- For conductor diameters of 0.35...0.9 mm and core diameters of 0.7...2.6 mm
- With a sensor for scanning the core end position
- Scissors can be deactivated for looping cores through via multiple contacts
- Scissors have a long service life of up to 200,000 cuts



See page 36 for details

Item	Item no.	Fig.
LSA insertion tool with sensor	1008 3101	2

Accessories

CobiNet module label holder 2/10

- For attachment onto a backmount frame/assembly channel
- With unprinted paper label

Item	Item no.	Fig.
Module label holder 2/10	3030 086	1



1

CobiNet hinged label holder 2/10

- For attachment onto LSA modules 2/10 and onto overvoltage protection magazines 2/10 instead of the cover
- For labelling on both sides
- With unprinted paper labels and transparent covers

Item	Item no.	Fig.
Hinged label holder 2/10	3030 020	2



2

CobiNet attachable label holder 2/10

- For attachment onto LSA modules 2/10 and onto overvoltage protection magazines 2/10
- For labelling rows
- With unprinted paper label and transparent cover
- Note: The module space at the top is not for use

Item	Item no.	Fig.
Attachable label holder 2/10	3030 152	3



3

CobiNet DIN rail adapter

- Metal design
- With M5 thread
- For DIN rails TS35 as per DIN EN 60715

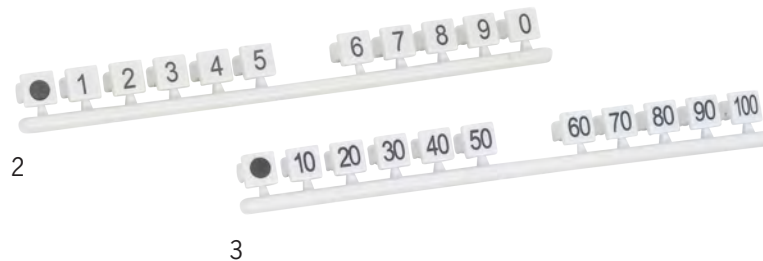


Sample application

Item	Item no.	Fig.
DIN rail adapter	3030 122/M	1

CobiNet plug number set

- For labelling series 2 LSA modules
- Colour: Grey



Item	Item no.	Fig.
Plug number set 1...0	3030 051	2
Plug number set 10...100	3030 052	3
Plug number set 1...10	3030 057	
Plug number set 11...20	3030 058	
Plug number set 21...30	3030 059	
Plug number set 31...40	3030 060	
Plug number set 41...50	3030 061	
Plug number set 51...60	3030 062	
Plug number set 10...19	3030 180	
Plug number set 110...200	3030 181	

LSA series 2

Cords

CobiNet cord 2/4, 4-pin, 1x LSA 2/4, open on one side

- For LSA disconnection modules

1

Item	Item no.	Fig.
Length: 1.0 m	3020 089/1.0.1	1
Length: 2.0 m	3020 089/2.0.1	
Length: 3.0 m	3020 089/3.0.1	
Length: 5.0 m	3020 089/5.0.1	

CobiNet cord 2/2, 2-pin, 1x LSA 2/2, open on one side

- For LSA connection and disconnection modules

2

Item	Item no.	Fig.
Length: 1.0 m	3020 046/1.0.1	2
Length: 2.0 m	3020 046/2.0.1	
Length: 3.0 m	3020 046/3.0.1	
Length: 5.0 m	3020 046/5.0.1	

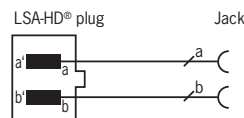
 Additional lengths on request

Universal test cord

CobiNet universal test cord, 2-pin

- Fitted with a plug for tapping almost all LSA contacts and 2 jacks (4 mm) for banana plugs
- 2-pin tapping of the LSA contact using 2 spring contacts in the plug
- For parallel connection to a twisted pair

Item	Item no.	Fig.
0.2 m	3020 003/0.2	5



5

 a/b = cable side
a'/b' = jumper side

CobiNet test cord 2/2, 2-pin, LSA 2/2 - 2x jack (4 mm)

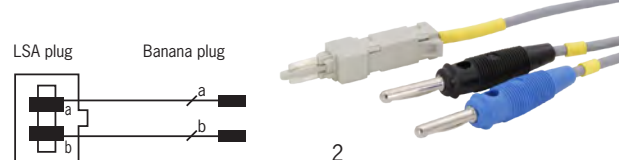
- For parallel connection to a twisted pair
- With LSA plug and two jacks (4 mm) for banana plugs
- For LSA connection and disconnection modules



Item	Item no.	Fig.
Length: 0.2 m	3020 028/0.2.1	1
Length: 0.5 m	3020 028/0.5.1	
Length: 1.0 m	3020 028/1.0.1	
Length: 2.0 m	3020 028/2.0.1	
Length: 3.0 m	3020 028/3.0.1	

CobiNet test cord 2/2, 2-pin, LSA 2/2 - 2x banana plug

- For parallel connection to a twisted pair
- With LSA plug and two banana plugs
- For LSA connection and disconnection modules

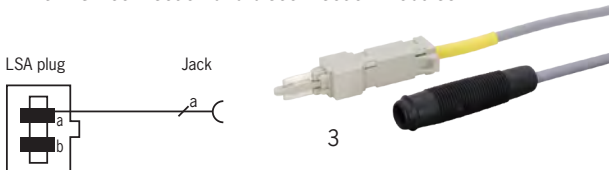


Item	Item no.	Fig.
Length: 0.2 m	3020 044/0.2.1	2
Length: 0.5 m	3020 044/0.5.1	
Length: 1.0 m	3020 044/1.0.1	
Length: 2.0 m	3020 044/2.0.1	
Length: 3.0 m	3020 044/3.0.1	

Additional lengths on request

CobiNet test cord 2/1, 1-pin, LSA 2/1 - 1x jack (4 mm)

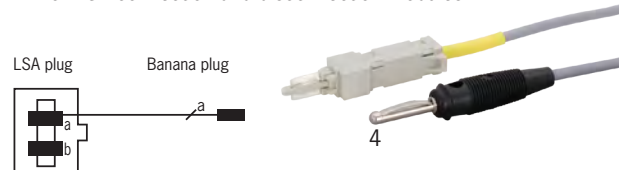
- For parallel connection
- With LSA plug and a jack (4 mm) for banana plug
- For LSA connection and disconnection modules



Item	Item no.	Fig.
Length: 0.2 m	3020 020/0.2.1	3
Length: 0.5 m	3020 020/0.5.1	
Length: 1.0 m	3020 020/1.0.1	
Length: 2.0 m	3020 020/2.0.1	
Length: 3.0 m	3020 020/3.0.1	

CobiNet test cord 2/1, 1-pin, LSA 2/1 - 1x banana plug

- For parallel connection
- With LSA plug and a banana plug
- For LSA connection and disconnection modules



Item	Item no.	Fig.
Length: 0.2 m	3020 036/0.2.1	4
Length: 0.5 m	3020 036/0.5.1	
Length: 1.0 m	3020 036/1.0.1	
Length: 2.0 m	3020 036/2.0.1	
Length: 3.0 m	3020 036/3.0.1	

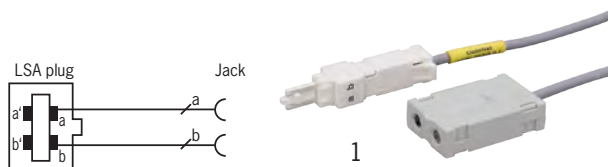
Additional lengths on request

a/b = cable side
a'/b' = jumper side

Test cords

**CobiNet test cord 2/4, 4-pin
LSA 2/4 - 2x jack (4 mm)**

- Separates a wire path
- With LSA plug and two jacks (4 mm) for banana plugs
- For LSA disconnection and switching modules

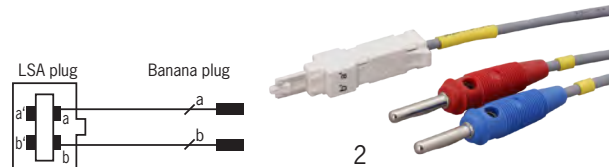


Item	Item no.	Fig.
Length: 0.2 m	3020 062/0.2.1	1
Length: 0.5 m	3020 062/0.5.1	
Length: 1.0 m	3020 062/1.0.1	
Length: 2.0 m	3020 062/2.0.1	
Length: 3.0 m	3020 062/3.0.1	

i Additional lengths on request

**CobiNet test cord 2/4, 4-pin,
LSA 2/4 - 2x banana plug**

- Separates a wire path
- With LSA plug and two banana plugs
- For LSA disconnection and switching modules

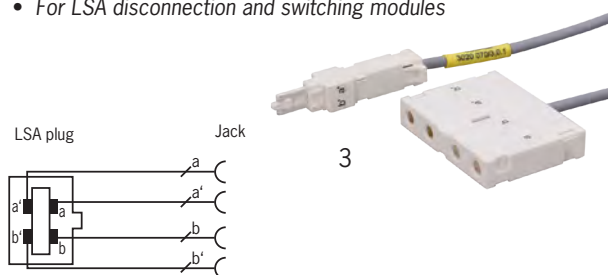


Item	Item no.	Fig.
Length: 0.2 m	3020 078/0.2.1	2
Length: 0.5 m	3020 078/0.5.1	
Length: 1.0 m	3020 078/1.0.1	
Length: 2.0 m	3020 078/2.0.1	
Length: 3.0 m	3020 078/3.0.1	

**i a/b = cable side
a'/b' = jumper side**

**CobiNet test cord 2/4, 4-pin,
LSA 2/4 - 4x jack (4 mm)**

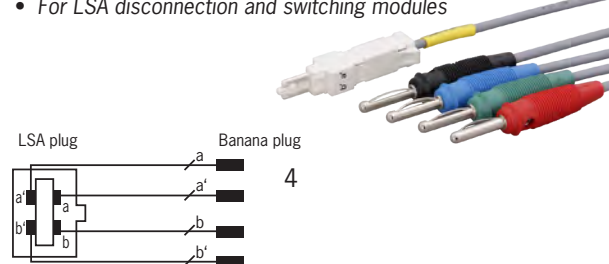
- Separates a wire path
- With LSA plug and four jacks (4 mm) for banana plugs
- For LSA disconnection and switching modules



Item	Item no.	Fig.
Length: 0.2 m	3020 070/0.2.1	3
Length: 0.5 m	3020 070/0.5.1	
Length: 1.0 m	3020 070/1.0.1	
Length: 2.0 m	3020 070/2.0.1	
Length: 3.0 m	3020 070/3.0.1	

**CobiNet test cord 2/4, 4-pin,
LSA 2/4 - 4x banana plug**

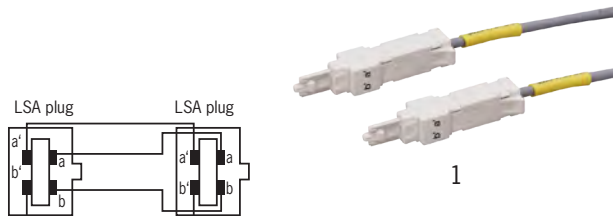
- Separates a wire path
- With LSA plug and four banana plugs
- For LSA disconnection and switching modules



Item	Item no.	Fig.
Length: 0.2 m	3020 087/0.2.1	4
Length: 0.5 m	3020 087/0.5.1	
Length: 1.0 m	3020 087/1.0.1	
Length: 2.0 m	3020 087/2.0.1	
Length: 3.0 m	3020 087/3.0.1	

CobiNet connection cord 2/4, 4-pin, 2x LSA 2/4

- With two LSA plugs for LSA disconnection modules
- Configuration: 1:1

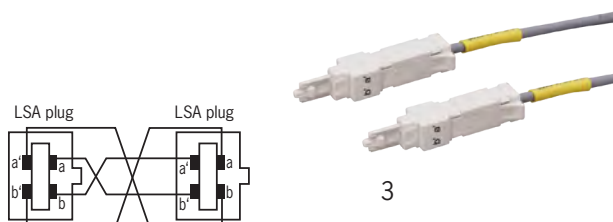


Item	Item no.	Fig.
Length: 1.0 m	3020 095/1.0.1	1
Length: 2.0 m	3020 095/2.0.1	
Length: 3.0 m	3020 095/3.0.1	
Length: 5.0 m	3020 095/5.0.1	

i Additional lengths on request

CobiNet connection cord 2/4, 4-pin, 2x LSA 2/4, intersected a1-b2'

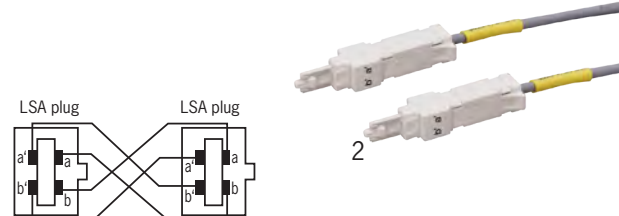
- With two LSA plugs for LSA disconnection modules
- Configuration: a1-b2', a1'-b2, b1-a2', b1'-a2



Item	Item no.	Fig.
Length: 1.0 m	3020 114/1.0.1	3
Length: 2.0 m	3020 114/2.0.1	
Length: 3.0 m	3020 114/3.0.1	
Length: 5.0 m	3020 114/5.0.1	

CobiNet connection cord 2/4, 4-pin, 2x LSA 2/4, intersected a1-b2

- With two LSA plugs for LSA disconnection modules
- Configuration: a1-b2, a1'-b2', b1-a2, b1'-a2'

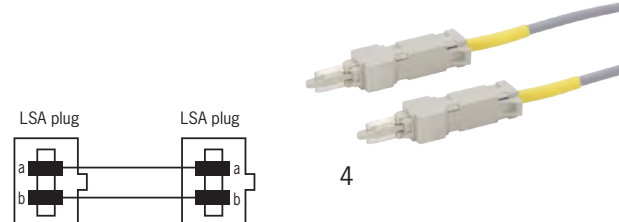


Item	Item no.	Fig.
Length: 1.0 m	3020 102/1.0.1	2
Length: 2.0 m	3020 102/2.0.1	
Length: 3.0 m	3020 102/3.0.1	
Length: 5.0 m	3020 102/5.0.1	

**i a/b = cable side
a'/b' = jumper side**

CobiNet connection cord 2/2, 2-pin, 2x LSA 2/2

- With two LSA plugs
- For LSA connection and disconnection modules



Item	Item no.	Fig.
Length: 1.0 m	3020 051/1.0.1	4
Length: 2.0 m	3020 051/2.0.1	
Length: 3.0 m	3020 051/3.0.1	
Length: 5.0 m	3020 051/5.0.1	

Distributor housings

CobiNet VKA distributor housing, surface-mounted with backmount frame

- Steel plate distributor box
- For the accommodation of series 2 LSA modules or LSA-TL modules on a backmount frame
- Pluggable overvoltage protection
- Sash fastener
- Plastic cable feeds and jumper wire guides
- Protection class: IP42
- RAL 9016 (traffic white)



Distributor size	Item no.	Fig.
VKA1 for 60 twisted pairs (1x 6 LSA connection modules 2/10) Dimensions (W x H x D): 203 x 233 x 115 mm	2031 201	1
VKA2 for 100 twisted pairs (1x 10 LSA connection modules 2/10) Dimensions (W x H x D): 203 x 333 x 115 mm	2031 202	
VKA4 for 140 twisted pairs (2x 7 LSA connection modules 2/10) Dimensions (W x H x D): 333 x 333 x 115 mm	2031 204	
VKA6 for 200 twisted pairs (2x 10 LSA connection modules 2/10) Dimensions (W x H x D): 333 x 453 x 115 mm	2031 206	
VKA8 for 280 twisted pairs (2x 14 LSA connection modules 2/10) Dimensions (W x H x D): 333 x 553 x 115 mm	2031 208	
VKA12 for 420 twisted pairs (3x 14 LSA connection modules 2/10) Dimensions (W x H x D): 553 x 553 x 115 mm	2031 212	

CobiNet VKU distributor housing, flush-mounted with backmount frame

- Steel plate distributor box
- For the accommodation of series 2 LSA modules or LSA-TL modules on a backmount frame
- Panel can be rotated up to 5° for optical adaptation
- Flexible front for level regulation
- Pluggable overvoltage protection, earthing option at the box
- Detachable door
- Sash fastener
- Suitable for dry construction and flush-mounted assembly
- Plastic cable feeds and jumper wire guides
- Flush-mount frame, variable installation depth of up to 2 cm
- Protection class: IP42
- RAL 9016 (traffic white)

✓ Ready-to-assemble delivery!



1

Distributor size	Item no.	Fig.
VKU2/backmount frame for 100 twisted pairs (1x 10 LSA connection modules 2/10) Dimensions (W x H x D): 245 x 378 x 100 mm	2031 602	1
VKU4/backmount frame for 140 twisted pairs (2x 7 LSA connection modules 2/10) Dimensions (W x H x D): 375 x 378 x 100 mm	2031 604	

CobiNet locking system for VKA/VKU

- With 2 keys
- Cylinder sash fastener
- Locking mechanism EK 333

Item	Item no.	Fig.
Locking system for VKA/VKU	3060 056.1	2



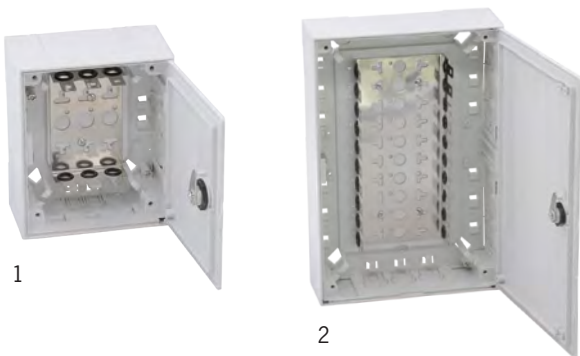
2

Backmount frame

Plastic distributors

CobiNet plastic distributor BOX I to IV

- Internal distributor for surface-mounted assembly
- For the accommodation of series 2 LSA modules or LSA-TL modules on a backmount frame
- Cable entry possible from 4 sides
- Jumper wire guide bracket and eyelets for cable attachment
- Sheath clamp for protective conductor connection
- Hole pattern enables the assembly of alternative fixtures
- The box frame can be detached from the housing's base plate for quicker assembly
- Protection class: IP30
- RAL 7035 (light grey)



Item	Item no.	Fig.
BOX I for 30 twisted pairs Dimensions (W x H x D): 140.6 x 170.6 x 76 mm with lock	2021 018	1
BOX I for 30 twisted pairs Dimensions (W x H x D): 140.6 x 170.6 x 76 mm with sash fastener	2021 019	
BOX II for 50 twisted pairs Dimensions (W x H x D): 215.6 x 215.6 x 76 mm with lock	2021 011	
BOX II for 50 twisted pairs Dimensions (W x H x D): 215.6 x 215.6 x 76 mm with sash fastener	2021 010	
BOX III for 100 twisted pairs Dimensions (W x H x D): 215.6 x 320.6 x 76 mm with lock	2021 028	2
BOX III for 100 twisted pairs Dimensions (W x H x D): 215.6 x 320.6 x 76 mm with sash fastener	2021 029	
BOX IV for 300 twisted pairs Dimensions (W x H x D): 419.6 x 449.6 x 76 mm with lock	2021 074	
BOX IV for 300 twisted pairs Dimensions (W x H x D): 419.6 x 449.6 x 76 mm with sash fastener	2021 071	

CobiNet attachment frame

- Increases the depth of the BOX by 25 mm for overvoltage protection applications
- RAL 7035 (light grey)



Item	Item no.	Fig.
For BOX I	2021 021	3
For BOX II	2021 008	
For BOX III	2021 031	
For BOX IV	2021 075	

CobiNet flush-mount frame for BOX

- Required for flush-mounted assembly
- RAL 7035 (light grey)



Item	Item no.	Fig.
For BOX I Dimensions (W x H): 180 x 210 mm	2021 020	4
For BOX II Dimensions (W x H): 255 x 255 mm	2021 009	
For BOX III Dimensions (W x H): 255 x 360 mm	2021 030	
For BOX IV Dimensions (W x H): 459 x 489 mm	2021 073	

Plastic distributors

CobiNet plastic distributor KS, surface-mounted

- External/internal distributor for surface-mounted assembly
- For the accommodation of series 2 LSA modules or LSA-TL modules on a backmount frame
- Cable entry from the bottom
- Pluggable overvoltage coarse protection
- Cable entry openings: 2 x 21 mm, 6 x 10 mm
- With lock
- Dimensions (W x H x D): 103 x 185 x 93 mm
- Protection class: IP54
- RAL 7035 (light grey)

1



Item	Item no.	Fig.
Plastic distributor KS 10, surface-mounted With backmount frame For 1 LSA module BR 2 or TL	2021 047	
Plastic distributor KS 20, surface-mounted With backmount frame For 2 LSA modules BR 2 or TL	2021 048	1

CobiNet plastic distributor KS, flush-mounted

- External/internal distributor for flush-mounted assembly
- For the accommodation of series 2 LSA modules or LSA-TL modules on a backmount frame
- Cable entry from the bottom
- Cable entry openings:
2 x 21 mm, 6 x 10 mm
- With lock
- Protection class: IP54
- RAL 7035 (light grey)

3

Ready-to-assemble
delivery!

Item	Item no.	Fig.
Plastic distributor KS 10, flush-mounted for 10 twisted pairs, with backmount frame For 1 LSA module BR 2 or TL Dimensions (W x H x D): 103 x 185 x 93 mm + Cover frame	2021 049	
Plastic distributor KS 20, flush-mounted With backmount frame For 2 LSA modules BR 2 or TL Dimensions (W x H x D): 103 x 185 x 93 mm + Cover frame	2021 050	3

CobiNet plastic distributor KS 100,
surface-mounted with backmount frame

- External/internal distributor for surface-mounted assembly
- For the accommodation of series 2 LSA modules or LSA-TL modules on a backmount frame
- Cable entry from the bottom
- Cable entry openings: 1 x 32 mm, 4 x 21 mm, 10 x 12 mm
- With lock
- Dimensions (W x H x D): 205 x 319 x 118 mm
- Protection class: IP54
- RAL 7035 (light grey)

2



Item	Item no.	Fig.
Plastic distributor KS 100, surface-mounted	2021 076	2

CobiNet plastic distributor KS 100,
flush-mounted with backmount frame

- External/internal distributor for flush-mounted assembly
- For the accommodation of series 2 LSA modules or LSA-TL modules on a backmount frame
- Cable entry from the bottom
- Cable entry openings: 1 x 32 mm, 4 x 21 mm, 10 x 12 mm
- With lock
- Dimensions (W x H x D): 205 x 319 x 118 mm + cover frame
- Protection class: IP54
- RAL 7035 (light grey)

4



Item	Item no.	Fig.
Plastic distributor KS 100, flush-mounted	2021 077	4

Backmount frame

Mini plastic distributor

CobiNet mini plastic distributor KS 2, surface-mounted

- Internal distributor for surface-mounted assembly
- Cable entry from the rear
- Cable connection via LSA modules, 2 twisted pairs incoming, 2 twisted pairs outgoing
- Dimensions (W x H x D): 82 x 82 x 29 mm
- Protection class: IP30
- RAL 7035 (light grey)

Item	Item no.	Fig.
Mini plastic distributor KS 2, surface-mounted	2021 046	1



Plastic distributor IP54

CobiNet plastic distributor cabinet, surface-mounted with backmount frame

- External/internal distributor for surface-mounted assembly
- For the accommodation of series 2 LSA modules or LSA-TL modules on a backmount frame
- Closed plastic distributor cabinet with swivelling lever handle for profile half-cylinder and 3-point locking rod
- Incl. lock
- Cable entry from the bottom/top
- Cable entry openings: 4 x 24 mm at the top, 3 x 21 mm, 8 x 12 mm at the bottom
- Protection class: IP54
- RAL 7035 (light grey)



Ready-to-assemble delivery!



Distributor size	Item no.	Fig.
KS 200, surface-mounted With backmount frames for 20 LSA modules 2/10, dimensions (W x H x D): 390 x 550 x 190 mm	2021 051	
KS 300, surface-mounted With backmount frames for 30 LSA modules 2/10, dimensions (W x H x D): 390 x 585 x 160 mm	2021 052	2
KS 600, surface-mounted With backmount frames for 60 LSA modules 2/10, dimensions (W x H x D): 570 x 682 x 219 mm	2021 053	
KS 900, surface-mounted With backmount frames for 90 LSA modules 2/10, dimensions (W x H x D): 570 x 982 x 219 mm	2021 054	

Backmount frame

Wall-mounted distribution cabinet

CobiNet WVL wall-mounted distribution cabinet with assembly channel

- Closed steel plate distribution cabinet
- For the accommodation of series 2 LSA modules or LSA-TL modules on a backmount frame
- Door with swivelling lever handle for profile half-cylinder and 3-point locking rod
- Incl. double-bit insert
- For the accommodation of series 2 LSA modules on mounting brackets
- Cable entry from above and below via brush strips
- Protection class: IP40
- RAL 7035 (light grey)



1



Ready-to-assemble
delivery!

Distributor size	Item no.	Fig.
WVL 100 Dimensions (W x H x D): 400 x 600 x 220 mm Capacity*: 100 twisted pairs Number of module spaces: 1x12 Number of rows: 1	2041 032	
WVL 200 Dimensions (W x H x D): 600 x 600 x 220 mm Capacity*: 2 x 100 twisted pairs Number of module spaces: 2x12 Number of rows: 2	2041 033	1
WVL 500 Dimensions (W x H x D): 600 x 800 x 220 mm Capacity*: 2x 250 twisted pairs Number of module spaces: 2x26 Number of rows: 2	2041 034	
WVL 700 Dimensions (W x H x D): 600 x 1200 x 220 mm Capacity*: 2 x 350 twisted pairs Number of module spaces: 2x36 Number of rows: 2	2041 035	
WVL 1050 Dimensions (W x H x D): 800 x 1300 x 220 mm Capacity*: 3 x 350 twisted pairs Number of module spaces: 3x36 Number of rows: 3	2041 036	
WVL 1350 Dimensions (W x H x D): 800 x 1300 x 220 mm Capacity*: 3 x 450 twisted pairs Number of module spaces: 3x46 Number of rows: 3	2041 037	

*With grid dimension of 25 mm

CobiNet IP54 upgrade kit for wall-mounted distribution cabinets with assembly channel

- 1 kit = 2 pcs
- Incl. sealing nipple



2



3

Item	Item no.	Fig.
Suitable for WVL 100 Panel for cable glands (6x M25, 2x M32, 1x M40)	2040 999/1	
Suitable for WVL 200/500/700 Panel for cable glands (6x M25, 6x M32, 4x M50)	2040 999/2	2
Suitable for WVL 1050/1350 Panel for cable glands (10x M25, 8x M32, 6x M50)	2040 999/3	3

Free-standing distribution cabinets

CobiNet SVL free-standing distribution cabinet with assembly channel

- Cabinet with removable side walls, stackable
- Closed steel plate distribution cabinet
- For the accommodation of series 2 LSA modules or LSA-TL modules on a backmount frame
- Door with swivelling lever handle for profile half-cylinder and 3-point locking rod
- Incl. double-bit insert
- For the accommodation of series 2 LSA modules on mounting brackets
- Cable entry from above via sponge rubber profile, from below via split base plate
- Protection class: IP54 with cable entry from below, otherwise IP40
- RAL 7035 (light grey)



1

Distributor size	Item no.	Fig.
SVL 1200 Dimensions (W x H x D): 600 x 2000 x 400 mm Capacity*: 2 x 600 twisted pairs Number of module spaces: 2x62 Number of rows: 2 Door with swivelling lever handle for profile half-cylinder and 3-point locking rod Versions: See information below	2051 009	1
SVL 1800 Dimensions (W x H x D): 800 x 2000 x 400 mm Capacity*: 3 x 600 twisted pairs Number of module spaces: 3x62 Number of rows: 3 Door with swivelling lever handle for profile half-cylinder and 3-point locking rod	2051 010	
SVL 2400 Dimensions (W x H x D): 1000 x 2000 x 400 mm Capacity*: 4 x 600 twisted pairs Number of module spaces: 4x62 Number of rows: 4 Double door with swivelling lever handle for profile half-cylinder and 3-point locking rod	2051 011	
SVL 3000 Dimensions (W x H x D): 1200 x 2000 x 400 mm Capacity*: 5 x 600 twisted pairs Number of module spaces: 5x62 Number of rows: 5 Double door with swivelling lever handle for profile half-cylinder and 3-point locking rod	2051 012	

*With grid dimension of 25 mm



Equipment versions:
/M with mounting plate
/MK without assembly channel



**Ready-to-assemble
delivery!**

Backmount frame

Free-standing distribution cabinets

CobiNet base for free-standing distribution cabinets with assembly channel, height: 100 mm



1

Item	Item no.	Fig.
Suitable for SVL 1200	5010 108	1
Suitable for SVL 1800	5010 109	
Suitable for SVL 2400	5010 110	
Suitable for SVL 3000	5010 111	

CobiNet base for free-standing distribution cabinets with assembly channel, height: 200 mm



2

Item	Item no.	Fig.
Suitable for SVL 1200	5010 104	2
Suitable for SVL 1800	5010 105	
Suitable for SVL 2400	5010 106	
Suitable for SVL 3000	5010 107	

CobiNet profile half-cylinder with round cylinder

- Length: 40 mm
- For installation in swivelling lever handles

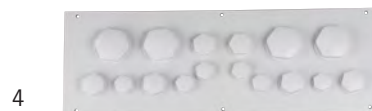


3

Item	Item no.	Fig.
Locking mechanism: EK 333 With 2 keys	3060 121	3
Locking mechanism: 15, 4-way key With 1 key	3060 126	
Locking mechanism: Double-bit, 3 mm	3060 124	

CobiNet IP54 upgrade kit for free-standing distribution cabinets with assembly channel

- 1 kit = 2 pcs
- Incl. sealing nipple
- With mounting kit



4



5

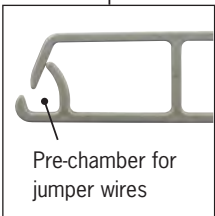
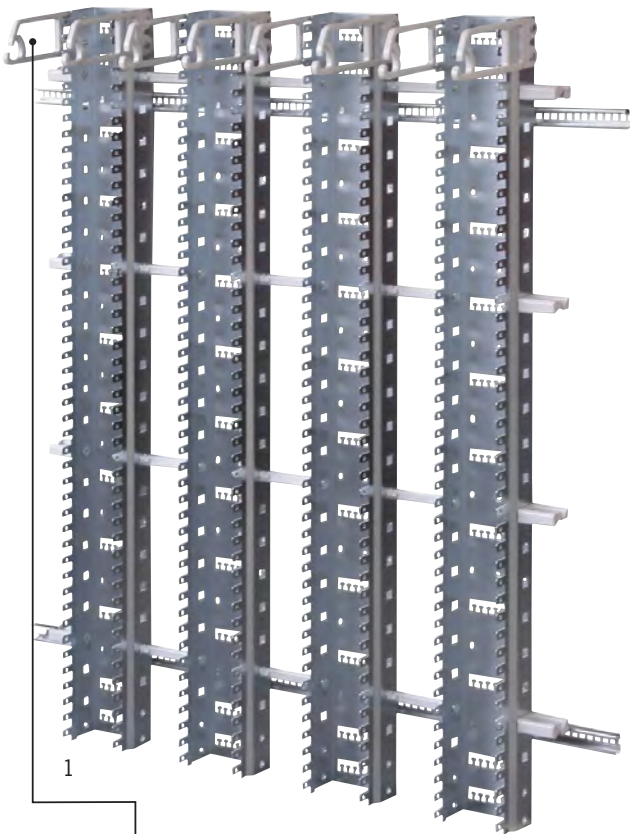
Item	Item no.	Fig.
Suitable for SVL 1200 Panel for cable glands (6x M25, 6x M32, 4x M50)	2040 999/8	4
Suitable for SVL 1800 Panel for cable glands (10x M25, 8x M32, 6x M50)	2040 999/7	
Suitable for SVL 2400 Panel for cable glands (12x M25, 12x M32, 8x M50)	2040 999/5	5
Suitable for SVL 3000 Panel for cable glands (16x M25, 14x M32, 10x M50)	2040 999/6	

Backmount frame

Wall-mounted distribution frames

CobiNet WVML wall-mounted distribution frame with assembly channel as an assembly kit

- For the accommodation of series 2 LSA modules or LSA-TL modules on a backmount frame
- C rails for wall attachment
- Horizontal and vertical jumper wire guide
- Jumper wire brackets with pre-chamber



For additional jumper wire guide brackets and other accessories, see page 254 and onwards.

i Additional designs on request

Distributor size	Item no.	Fig.
WVML 1/200 Dimensions (W x H x D): 240 x 650 x 245 mm Capacity*: 1 x 200 twisted pairs Number of rows: 1	20/01/6100	
WVML 2/400 Dimensions (W x H x D): 480 x 650 x 245 mm Capacity*: 2 x 200 twisted pairs Number of rows: 2	20/02/6100	
WVML 3/600 Dimensions (W x H x D): 720 x 650 x 245 mm Capacity*: 3 x 200 twisted pairs Number of rows: 3	20/03/6100	
WVML 4/800 Dimensions (W x H x D): 960 x 650 x 245 mm Capacity*: 4 x 200 twisted pairs Number of rows: 4	20/04/6100	1
WVML 1/400 Dimensions (W x H x D): 240 x 1150 x 300 mm Capacity*: 1 x 400 twisted pairs Number of rows: 1	6100-01-40	
WVML 2/800 Dimensions (W x H x D): 480 x 1150 x 300 mm Capacity*: 2 x 400 twisted pairs Number of rows: 2	6100-02-40	
WVML 3/1200 Dimensions (W x H x D): 720 x 1150 x 300 mm Capacity*: 3 x 400 twisted pairs Number of rows: 3	6100-03-40	
WVML 4/1600 Dimensions (W x H x D): 960 x 1150 x 300 mm Capacity*: 4 x 400 twisted pairs Number of rows: 4	6100-04-40	
WVML 1/600 Dimensions (W x H x D): 240 x 1650 x 300 mm Capacity*: 1 x 600 twisted pairs Number of rows: 1	6100-01-60	
WVML 2/1200 Dimensions (W x H x D): 480 x 1650 x 300 mm Capacity*: 2 x 600 twisted pairs Number of rows: 2	6100-02-60	
WVML 3/1800 Dimensions (W x H x D): 720 x 1650 x 300 mm Capacity*: 3 x 600 twisted pairs Number of rows: 3	6100-03-60	
WVML 4/2400 Dimensions (W x H x D): 960 x 1650 x 300 mm Capacity*: 4 x 600 twisted pairs Number of rows: 4	6100-04-60	

*With grid dimension of 25 mm

Backmount frame

Wall-mounted/free-standing distribution frames

CobiNet WSMML wall-mounted/free-standing distribution frame with assembly channel as an assembly kit

- For the accommodation of series 2 LSA modules or LSA-TL modules on a backmount frame
- C rails for wall attachment
- Horizontal and vertical jumper wire guide
- Jumper wire brackets with pre-chamber
- Impact protection tube

Distributor size	Item no.	Fig.
WSMML 1/600 Dimensions (W x H x D): 240 x 2000 x 380 mm Capacity*: 1 x 600 twisted pairs Number of rows: 1	6103-01-60	
WSMML 2/1200 Dimensions (W x H x D): 480 x 2000 x 380 mm Capacity*: 2 x 600 twisted pairs Number of rows: 2	6103-02-60	
WSMML 3/1800 Dimensions (W x H x D): 720 x 2000 x 380 mm Capacity*: 3 x 600 twisted pairs Number of rows: 3	6103-03-60	
WSMML 4/2400 Dimensions (W x H x D): 960 x 2000 x 380 mm Capacity*: 4 x 600 twisted pairs Number of rows: 4	6103-04-60	1

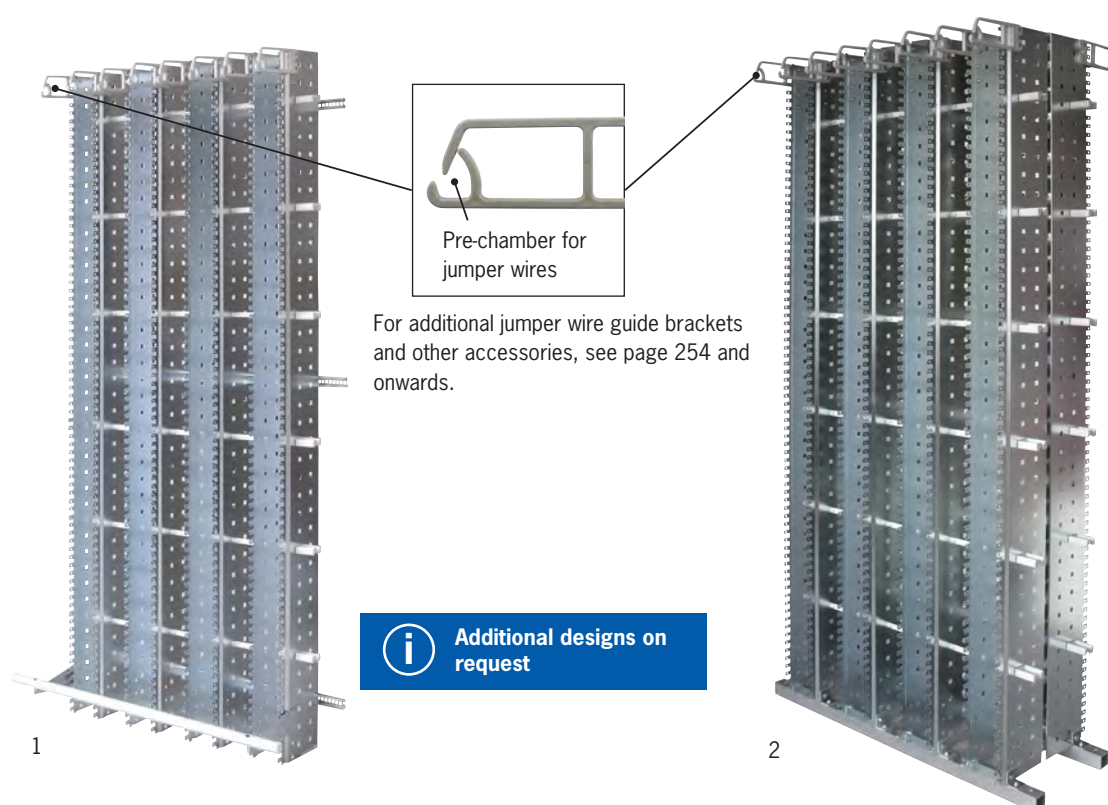
*With grid dimension of 25 mm

CobiNet SVMML free-standing distribution frame with assembly channel as an assembly kit (free-standing, channels back-to-back)

- For the accommodation of series 2 LSA modules or LSA-TL modules on a backmount frame
- Floor rail set and attachment material
- Horizontal and vertical jumper wire guide
- Jumper wire brackets with pre-chamber
- Impact protection tube
- Ceiling fixtures and supports for double floors are available on request

Distributor size	Item no.	Fig.
SVMML 1/1200 Dimensions (W x H x D): 240 x 2004 x 710 mm Capacity*: 1 x 1200 twisted pairs Number of rows: 1	6105-02-60	
SVMML 2/2400 Dimensions (W x H x D): 480 x 2004 x 710 mm Capacity*: 2 x 1200 twisted pairs Number of rows: 2	6105-04-60	
SVMML 3/3600 Dimensions (W x H x D): 720 x 2004 x 710 mm Capacity*: 3 x 1200 twisted pairs Number of rows: 3	6105-06-60	
SVMML 4/4800 Dimensions (W x H x D): 960 x 2004 x 710 mm Capacity*: 4 x 1200 twisted pairs Number of rows: 4	6105-08-60	2

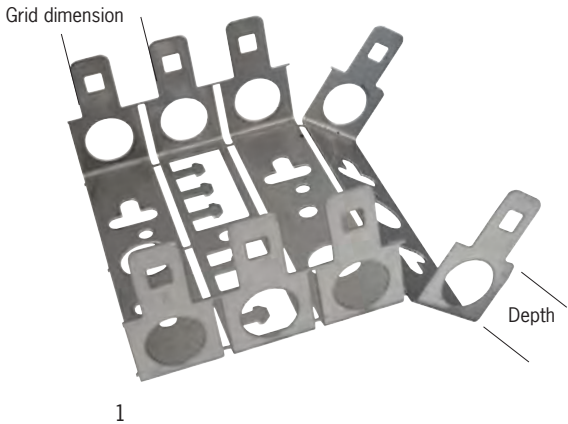
*Specified capacity is two-sided with a grid dimension of 25 mm



Backmount frames

CobiNet flexible backmount frame

- *Stainless steel*
- *For the accommodation of series 2 LSA modules or LSA-TL modules on a backmount frame*
- *3 different repeating hole patterns*
- *The individual modules are connected to one another with bars, which can be easily separated using wire cutters*



Grid dimension 22.5 mm	Depth	Item no.	Fig.
Module spaces 10	22 mm	3022 022/10	1
Module spaces 10	30 mm	3022 030/10	
Module spaces 10	50 mm	3022 050/10	
Module spaces 30	22 mm	3022 022/30	
Module spaces 30	30 mm	3022 030/30	
Module spaces 30	50 mm	3022 050/30	
Module spaces 39	22 mm	3022 022/39	
Module spaces 39	30 mm	3022 030/39	
Module spaces 39	50 mm	3022 050/39	

Grid dimension 25 mm	Depth	Item no.	Fig.
Module spaces 10	22 mm	3025 022/10	
Module spaces 10	30 mm	3025 030/10	
Module spaces 10	50 mm	3025 050/10	
Module spaces 30	22 mm	3025 022/30	
Module spaces 30	30 mm	3025 030/30	
Module spaces 30	50 mm	3025 050/30	
Module spaces 39	22 mm	3025 022/39	
Module spaces 39	30 mm	3025 030/39	
Module spaces 39	50 mm	3025 050/39	

Grid dimension 27.5 mm	Depth	Item no.	Fig.
Module spaces 10	22 mm	3027 022/10	
Module spaces 10	30 mm	3027 030/10	
Module spaces 10	50 mm	3027 050/10	
Module spaces 30	22 mm	3027 022/30	
Module spaces 30	30 mm	3027 030/30	
Module spaces 30	50 mm	3027 050/30	
Module spaces 39	22 mm	3027 022/39	
Module spaces 39	30 mm	3027 030/39	
Module spaces 39	50 mm	3027 050/39	

CobiNet assembly channel

- *Stainless steel*
- *For the accommodation of series 2 LSA modules or LSA-TL modules on a backmount frame*
- *Grid dimension 25 mm*

Assembly channel size	Item no.	Fig.
For 10 modules (12 spaces) Dimensions (W x H x D): 120 x 300 x 85 mm	2-8100-300/L	1
For 20 modules (26 spaces) Dimensions (W x H x D): 120 x 662 x 85 mm	2-8100/L	
For 30 modules (36 spaces) Dimensions (W x H x D): 120 x 912 x 85 mm	2-8100-910/L	
For 40 modules (46 spaces) Dimensions (W x H x D): 120 x 1162 x 85 mm	2-8101-1150/L	
For 60 modules (66 spaces) Dimensions (W x H x D): 120 x 1662 x 140 mm	2-8102/L	
For 70 modules (79 spaces) For 56 modules in double-floor assembly Dimensions (W x H x D): 120 x 1987 x 190 mm	2-8115/L	



1



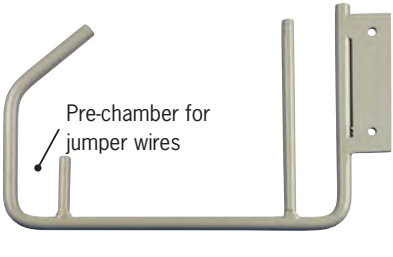
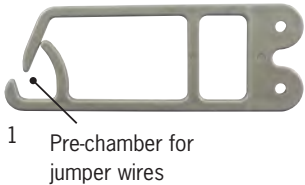
Sample application

Accessories for assembly channels

CobiNet jumper wire guide bracket

- With pre-chamber for horizontal jumper paths
- For attachment onto an assembly channel
- Incl. attachment material

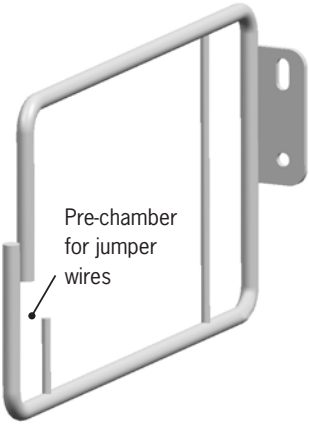
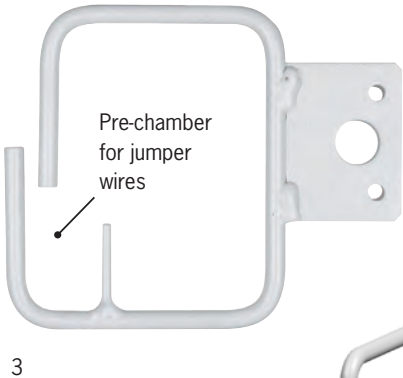
Item	Item no.	Fig.
Jumper wire guide bracket for horizontal jumper paths Dimensions (W x H x D): 10 x 70 x 190 mm Material: Plastic	2-8108/K	1
Jumper wire guide bracket for horizontal jumper paths for use in large distributors with a large number of jumper wires Dimensions (W x H x D): 14 x 180 x 300 mm Material: Metal	2-8108/M	2



CobiNet jumper wire guide bracket

- With pre-chamber for horizontal jumper paths
- For attachment onto an LSA-HD® assembly channel
- Incl. attachment material
- Material: Metal, powder-coated, RAL 7035

Item	Item no.	Fig.
For horizontal jumper paths Dimensions (W x H x D): 8 x 100 x 151 mm	1008 5900	3
For horizontal jumper paths Dimensions (W x H x D): 8 x 130 x 151 mm	1008 5901	
For horizontal jumper paths Dimensions (W x H x D): 8 x 150 x 247 mm	1008 5902	
For horizontal jumper paths For use in large distributors with a large number of jumper wires Attachment onto two C rails Dimensions (W x H x D): 30 x 150 x 258 mm	1008 5903	4



i Using a pre-chamber
See page 321

CobiNet cable routing bracket

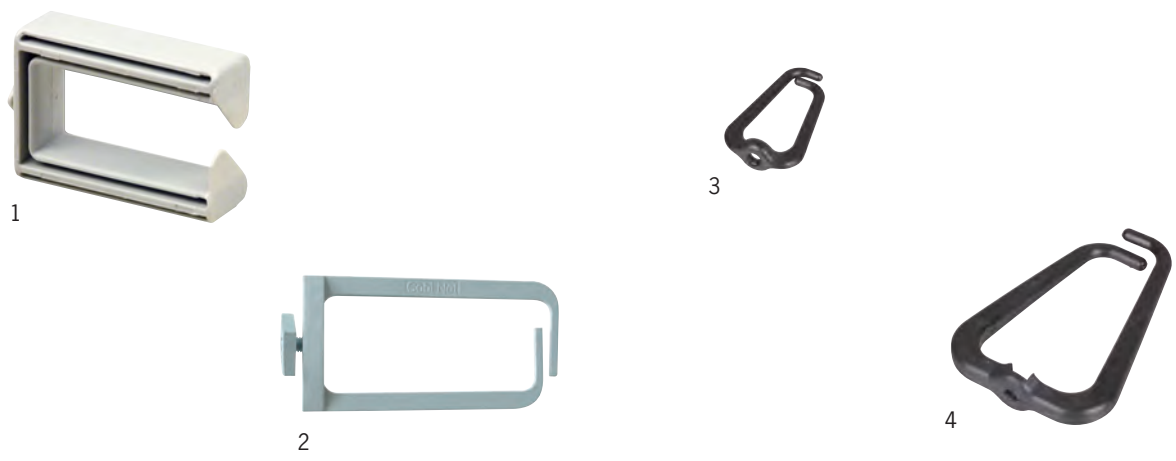
- Material: Metal, powder-coated
- RAL 7035 (light grey)

Item	Item no.	Fig.
Cable routing bracket, medium Dimensions (W x H x D): 15 x 76 x 95 mm	2060 058	5
Cable routing bracket, large Dimensions (W x H x D): 15 x 76 x 160 mm	2060 059	



CobiNet cable guide

- For guiding the jumper wires on the distribution frame's channel



Item	Item no.	Fig.
Jumper wire guide bracket for vertical jumper paths Material: Plastic Depth: 60 mm	5010 073	1
Jumper wire guide bracket Material: Plastic Depth: 95 mm Incl. attachment material	2060 035	2
Cable guide, small	2060 063	3
Cable guide, large	2060 064	4

CobiNet spacer

- For adjusting the row spacing in the distributor by 100 or 120 mm
- For vertical jumper wire guide
- For assembly channels

Item	Item no.	Fig.
Spacer	2-8055	5



Backmount frame

Distribution racks 19"

CobiNet distribution rack 19" (width: 482.6 mm) with backmount frame

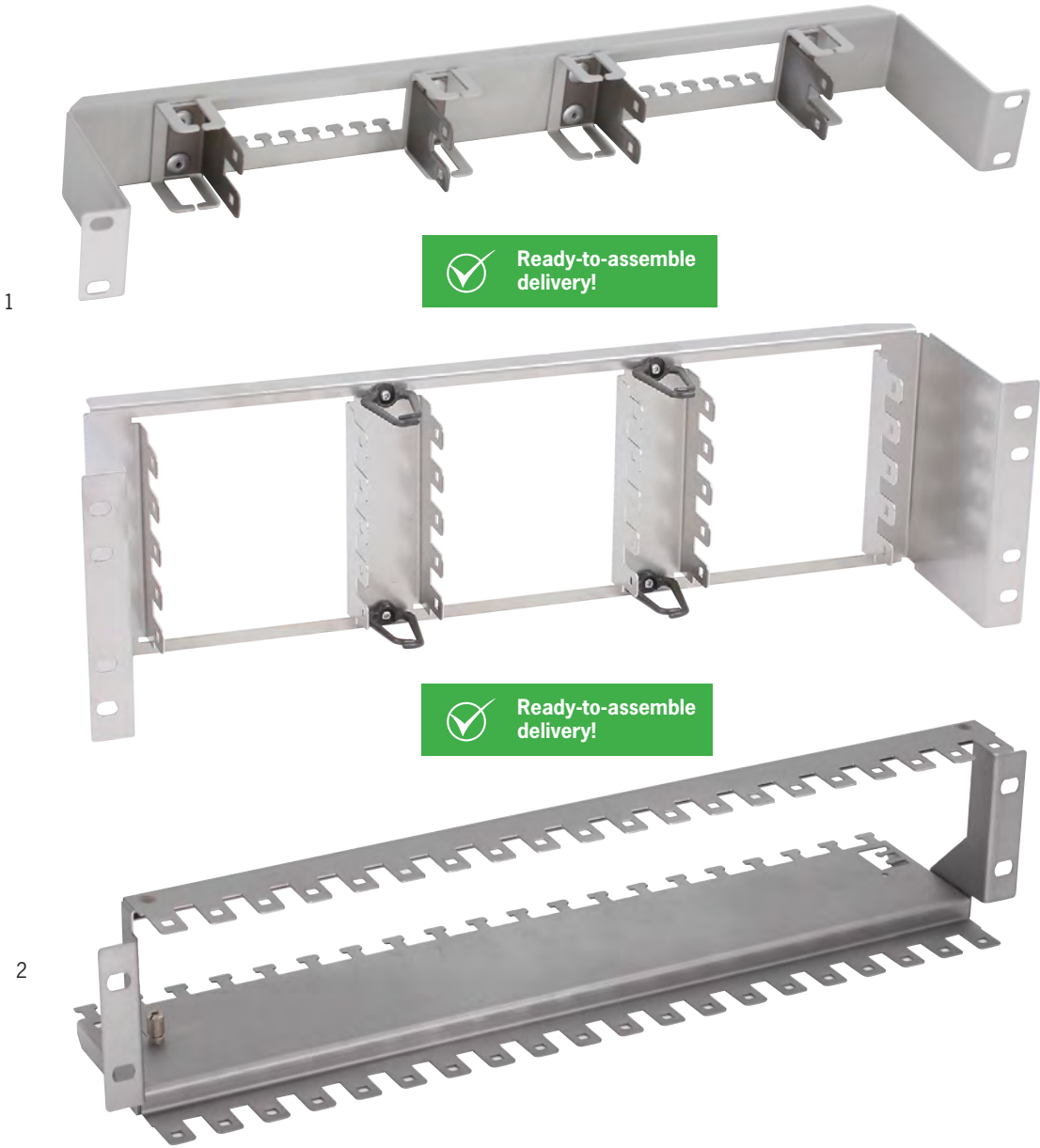
- Jumper wire guide
- Horizontal module assembly

Item	Item no.	Fig.
1 RU for 2x 2 LSA modules BR2 or TL, cable strain relief at the rear RAL 7035 (light grey)	7050 099	1
3 RU for 3x 5 LSA modules BR2 or TL	7050 100.1	2

CobiNet distribution rack 19" (width: 482.6 mm) 3 RU

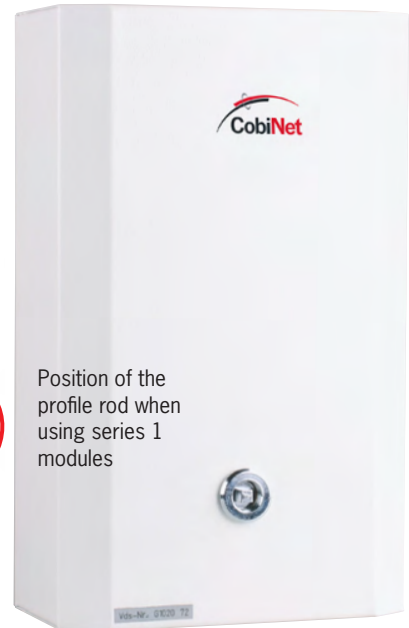
- Stainless steel
- Sheath clamp for protective conductor connection
- Cable strain relief at the rear
- Vertical module assembly

Item	Item no.	Fig.
3 RU for 20 LSA modules BR2 or TL	5010 084	3



CobiNet VdS VKA distributor housing, surface-mounted with profile rods

- VdS-recognised Class C distributor for burglar alarm systems
- For the accommodation of LSA-HD® RS, LSA series 2 (BR2) and LSA series 1 (20-twisted-pair) modules on profile rods
- Earthing option on the box
- Cover contact (microswitch, recommended load < 30 V, < 400 mA)
- Pluggable overvoltage protection, earthing option at the box
- Cover closed on all sides
- Wall spacer for cable entry from the rear
- Square sash fastener with sealing option
- Safety film sticker
- Plastic jumper wire guides
- Protection class: IP42
- RAL 9016 (traffic white)



1

Distributor size	Series	LSA-HD® RS	BR2	BR1	Item no.	Fig.
VdS VKA1 for 100 twisted pairs Dimensions (W x H x D): 203 x 233 x 115 mm		100 twisted pairs (1 x 10 modules)	60 twisted pairs (1 x 6 modules)	-	2086 071	
VdS VKA2 for 110 twisted pairs Dimensions (W x H x D): 203 x 333 x 115 mm		110 twisted pairs (1 x 11 modules)	70 twisted pairs (1 x 7 modules)	100 twisted pairs (1 x 5 modules)	2086 072	1
VdS VKA4 for 200 twisted pairs Dimensions (W x H x D): 333 x 333 x 115 mm		200 twisted pairs (1 x 20 modules)	120 twisted pairs (1 x 12 modules)	160 twisted pairs (1 x 8 modules)	2086 073	
VdS VKA8 for 400 twisted pairs Dimensions (W x H x D): 333 x 553 x 115 mm		400 twisted pairs (2 x 20 modules)	240 twisted pairs (2 x 12 modules)	320 twisted pairs (2 x 8 modules)	2086 074	
VdS VKA12 for 700 twisted pairs Dimensions (W x H x D): 553 x 553 x 115 mm		700 twisted pairs (2 x 35 modules)	400 twisted pairs (2 x 20 modules)	600 twisted pairs (2 x 15 modules)	2086 075	

CobiNet cover contact

- Monoblock construction
- Water-proof micro basic switch
- Protection class: IP67
- Actuator: Roller simulation lever

Item	Item no.	Fig.
Cover contact for VKA/VdS distributor housing	2030 036	2



2

Distributor housing, VdS backmount frame

CobiNet VdS VKA distributor housing, surface-mounted with backmount frame

- VdS-recognised Class C distributor for burglar alarm systems
- Steel plate distributor box
- For the accommodation of series 2 LSA modules or LSA-TL modules on a backmount frame
- Cover contact (microswitch, recommended load < 30 V, < 400 mA)
- Wall spacer for cable entry from the rear
- Pluggable overvoltage protection
- Cover closed on all sides
- Square sash fastener with sealing option
- Safety film sticker
- Plastic jumper wire guides
- Protection class: IP42
- RAL 9016 (traffic white)



Ready-to-assemble
delivery!

1



Distributor size	Item no.	Fig.
VdS VKA1 for 60 twisted pairs (1x 6 LSA connection modules 2/10) Dimensions (W x H x D): 203 x 233 x 115 mm	2074 071	
VdS VKA2 for 100 twisted pairs (1x 10 LSA connection modules 2/10) Dimensions (W x H x D): 203 x 333 x 115 mm	2074 072	1
VdS VKA4 for 140 twisted pairs (2x 7 LSA connection modules 2/10) Dimensions (W x H x D): 333 x 333 x 115 mm	2074 073	
VdS VKA8 for 260 twisted pairs (2x 13 LSA connection modules 2/10) Dimensions (W x H x D): 333 x 553 x 115 mm	2074 074	
VdS VKA12 for 420 twisted pairs (3x 14 LSA connection modules 2/10) Dimensions (W x H x D): 553 x 553 x 115 mm	2074 075	

CobiNet cover contact

- Monoblock construction
- Water-proof micro basic switch
- Protection class: IP67
- Actuator: Roller simulation lever

Item	Item no.	Fig.
Cover contact for VKA/VdS distributor housing	2030 036	2



2

CobiNet VdS small plastic distributor

- VdS-recognised Class C distributor for burglar alarm systems
- With cover contact
- Colour: White



Distributor size	Item no.	Fig.
4 twisted pairs for flush-mounted assembly, dimensions (W x H x D): 80 x 80 x 25 mm VdS no.: G102015	2085 071	1
4 twisted pairs for surface-mounted assembly, dimensions (W x H x D): 75 x 35 x 22 mm VdS no.: G102017	2085 072	
14 twisted pairs, incoming and outgoing cores in a terminal for surface-mounted assembly, dimensions (W x H x D): 114 x 50 x 25 mm VdS no.: G102016	2085 073	
28 twisted pairs, incoming and outgoing cores in a terminal for surface-mounted assembly, dimensions (W x H x D): 114 x 114 x 25 mm VdS no.: G102018	2085 074	
8 twisted pairs, separable wire jumpers for surface-mounted assembly, dimensions (W x H x D): 114 x 50 x 25 mm VdS no.: G102016	2085 075	
16 twisted pairs, separable wire jumpers for surface-mounted assembly, dimensions (W x H x D): 114 x 114 x 25 mm VdS no.: G102018	2085 076	2

Fire protection distributors

Fire protection telecommunication distributors

CobiNet fire protection telecommunication distributors for customised expansion with backmount frames RS

- Empty housing with door or cover
- Suitable for functional integrity in accordance with E30
- With verified fire resistance in accordance with F30
- With verified fire load insulation in accordance with I30
- With a housing tested in accordance with VDE
- Tested by a national materials testing institute based on DIN 4102-2 in accordance with F30, DIN 4102-11 in accordance with I30 and DIN 4102-12 in accordance with E30
- Tested with fixtures, ventilation and integrated cable sealing and cables
- Circumferential seal to prevent the ingress of smoke
- Proof of usability on request
- Testing or classification based in part on EN 1634-3, EN 13501-1+A1
- LSA-HD® RS overvoltage protection, 10 twisted pairs, pluggable
- Cable entry 2x diameter of 40 mm and 32x diameter of 18 mm from the top (other arrangements on request)
- Door hinge on the right (or on the left on request); internal hinges with high-quality swivel lock prepared for locking cylinder or cover
- Fixtures can be attached onto the inner walls in any possible way
- Incl. attachment material
- Protection class: IP54
- RAL 7035 (light grey)



1



2

Cover

Door

Type description	Item no.	Inside dimensions in mm W x H x D	Outside dimensions in mm W x H x D	Weight in kg	Max. capacity* LSA-HD® RS	Max. capacity* LSA series 2	Fig.
WFE 30/80	2030 129	200 x 200 x 100	312 x 312 x 168	13	80 twisted pairs	50 twisted pairs	2
WFE 30/150	2030 130	300 x 300 x 150	412 x 412 x 218	19	150 twisted pairs	90 twisted pairs	
WFE 30/440	2030 131	400 x 400 x 150	512 x 512 x 218	25	440 twisted pairs	260 twisted pairs	
WFE 30/250	2030 120	250 x 450 x 200	431 x 628 x 275	35	250 twisted pairs	150 twisted pairs	1
WFE 30/350	2030 121	250 x 600 x 200	431 x 778 x 275	40	350 twisted pairs	200 twisted pairs	
WFE 30/450	2030 122	250 x 750 x 200	431 x 928 x 275	47	450 twisted pairs	250 twisted pairs	

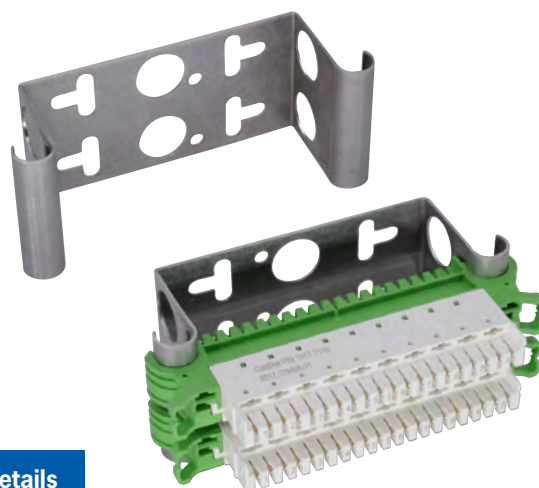
*Observe the necessary cable space at max. capacity

NEW

Installation option – backmount frame RS

The backmount frame RS is intended for the accommodation of LSA-HD® RS or LSA series 2 modules for profile rod assembly. The smallest unit (see figure) has a depth of 17.5 mm and an accommodation capacity of 50 twisted pairs with LSA-HD® RS or 20 twisted pairs with LSA series 2.

The backmount frame RS can be individually screwed onto the base plate of fire protection telecommunication distributors.



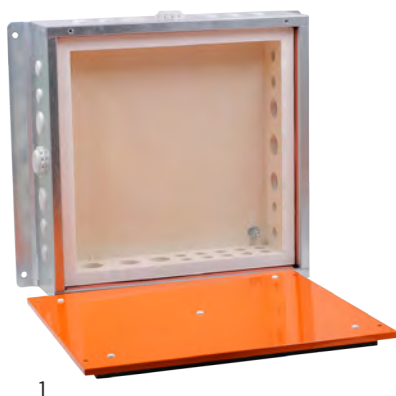
You can find out more details about the backmount frame RS from your contact.

Fire protection distributors

Fire protection telecommunication distributors

CobiNet fire protection telecommunication distributor, empty housing for customised expansion with backmount frames RS

- Suitable for functional integrity in accordance with E30
- With verified fire resistance in accordance with F30
- With verified fire load insulation in accordance with I30
- Tested by a national materials testing institute based on DIN 4102-2 in accordance with F30, DIN 4102-11 in accordance with I30 and DIN 4102-12 in accordance with E30
- Cable entry with press-out membranes
- Galvanised steel plate housing for surface-mounted assembly
- Lining with fire protection boards or intumescent material at the cable entry points
- Suitable for all standard E30 cables



NEW

**Installation option –
backmount frame RS**
See page 260

1

Distributor size	Item no.	Fig.
VKA-E30/40 twisted pairs, max. installation: 40 twisted pairs (4x PG29, 8x PG16) Dimensions W x H x D: Inside: 155 x 155 x 85 mm Outside: 250 x 250 x 130 mm	2030 099	
VKA-E30/80 twisted pairs, max. installation: 80 twisted pairs (6x PG29, 10x PG16) Dimensions: W x H x D Inside: 255 x 155 x 85 mm Outside: 350 x 250 x 130 mm	2030 100	
VKA-E30/200 twisted pairs, max. installation: 200 twisted pairs (8x PG29, 22x PG16) Dimensions W x H x D: Inside: 405 x 405 x 85 mm Outside: 500 x 500 x 130 mm	2030 101	1
VKA-E30/400 twisted pairs, max. installation: 400 twisted pairs (5x PG36, 6x PG29, 32x PG16) Dimensions W x H x D: Inside: 405 x 655 x 85 mm Outside: 500 x 750 x 130 mm	2030 102	

CobiNet fire protection telecommunication distributor with backmount frames for LSA series 2

- Suitable for functional integrity in accordance with E30
- With verified fire resistance in accordance with F30
- With verified fire load insulation in accordance with I30
- Tested by a national materials testing institute based on DIN 4102-2 in accordance with F30, DIN 4102-11 in accordance with I30 and DIN 4102-12 in accordance with E30
- Cable entry with press-out membranes
- Galvanised steel plate housing for surface-mounted assembly
- Lining with fire protection boards or intumescent material at the cable entry points
- Suitable for all standard E30 cables



3

2

Distributor size	Item no.	Fig.
VKA-E30/400 twisted pairs, max. installation: 400 twisted pairs (4x PG29, 40x PG16) Dimensions W x H x D: Inside: 355 x 605 x 85 mm Outside: 450 x 700 x 130 mm	2030 085	2
VKA-E30/200 twisted pairs, max. installation: 200 twisted pairs (4x PG29, 40x PG16) Dimensions W x H x D: Inside: 355 x 355 x 85 mm Outside: 450 x 450 x 130 mm	2030 086	
VKA-E30/100 twisted pairs, max. installation: 100 twisted pairs (2x PG29, 24x PG16) Dimensions W x H x D: Inside: 155 x 355 x 85 mm Outside: 250 x 450 x 130 mm	2030 087	3
VKA-E30/60 twisted pairs, max. installation: 60 twisted pairs (2x PG29, 24x PG16) Dimensions W x H x D: Inside: 155 x 255 x 85 mm Outside: 250 x 350 x 130 mm	2030 088	
VKA-E30/20 twisted pairs, max. installation: 20 twisted pairs (2x PG29, 8x PG16) Dimensions W x H x D: Inside: 105 x 155 x 85 mm Outside: 200 x 250 x 130 mm	2030 089	

Main distributor 71 – system 71/17

System 71/17 from CobiNet as the successor to the main distributor HVt 71

It has proven itself over several decades, and has managed to consistently stand up against subsequent developments in the German "cable landscape" – system 71.

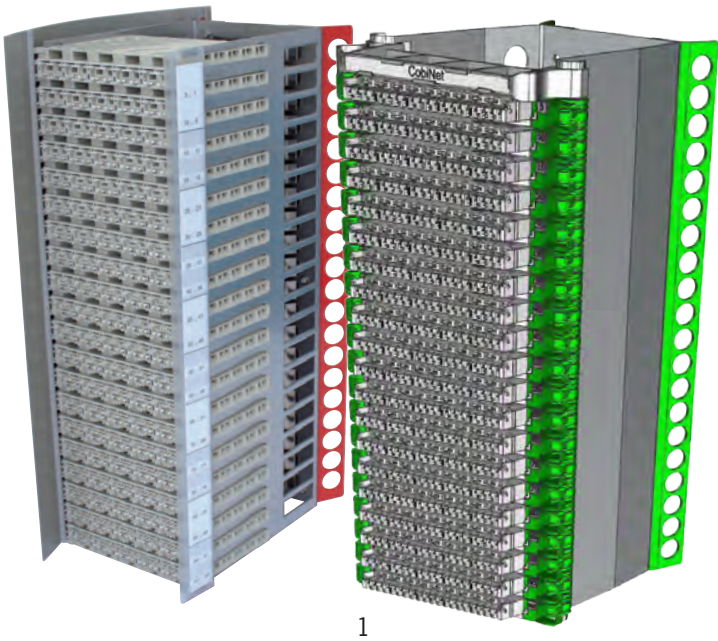
It is used in main distributors all over the world, by the likes of banks, insurance companies, airports, network operators and industry.

The follow-on development from CobiNet for system 71 is system 71/17, which is intended as an extension or replacement, or for new installations of main distributors 71.

- LSA disconnection contact insert for 5 twisted pairs
- Overvoltage protection magazine, 5 twisted pairs, coarse protection, 230 V, 10 kA, fail-safe
- Accommodation frame for 20 LSA disconnection contact inserts each for 5 twisted pairs

Features

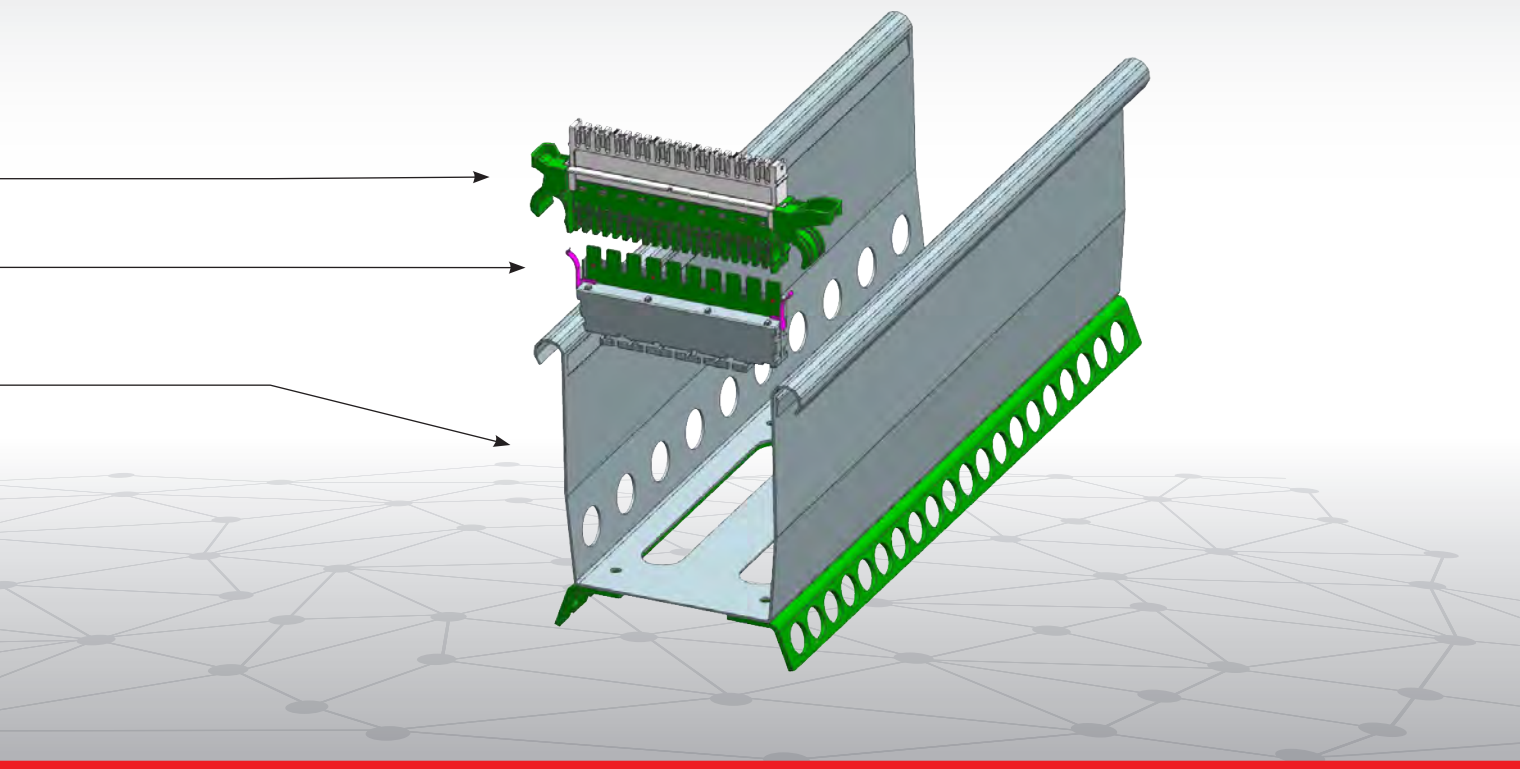
- Disconnection blocks for 100 twisted pairs (20 x 5 twisted pairs), generally with the option of installing permanent rear overvoltage protection
- Contact design as LSA disconnection contact; silver-plated spring contact with 45° contact position to the cable cores for double connection (additional torsional forces ensure exceptional contact reliability)
- The contact design allows for double connection and therefore the interruption-free changeover in the event of changes to the cabling or for new installations.
- The LSA insertion tool with sensor can be used.
- The system 71/17 is based on a modified LSA-HD® (P) RS disconnection module.
- Modified measuring, testing and labelling accessories for the LSA-HD® (P) RS system are available.
- The LSA-HD® (P) RS has been approved for use in the Deutsche Telekom network for transfer speeds currently reaching up to 100 MBit/s.



CobiNet disconnection module 71/17, 100 twisted pairs

- Consisting of 20 contact inserts for twisted 5 pairs each
- With protection option
- Incl. plug number set
- 1x module label holder

Item	Item no.	Fig.
Disconnection module 71/17, 100 twisted pairs	1071 4812	1
Magazine 71/17, 5 twisted pairs	1071 2052	



System comparison

	System 71/17	System 71
Module design	Disconnection block, 100 twisted pairs	Disconnection block, 100 twisted pairs
Contact insert	20x 5 twisted pairs	20x 5 twisted pairs
Contact design	LSA contact, silver-plated	ID contact, silver-plated
Feeding of cable cores	45° to contact	90° to contact
Double connection	Yes	Yes
Restoring forces for fixing the cores	Yes	Yes
Torsional forces for fixing the cores	Yes	No
Overvoltage protection	From the rear, permanent	At the side, permanent
Insertion tool	LSA with sensor	System 71
Attachment/installation dimensions	290/210 mm	290/210 mm
Width of disconnection block	120.5 mm	110 mm
Telekom approval	Yes (LSA-HD®-(P)-RS)	Yes
Availability	Available	Discontinued
Accessory for measuring, testing, labelling	Available	Discontinued



You can find out more details about the system 71/17 from your contact.

System 71 – system 71/17

Disconnection blocks

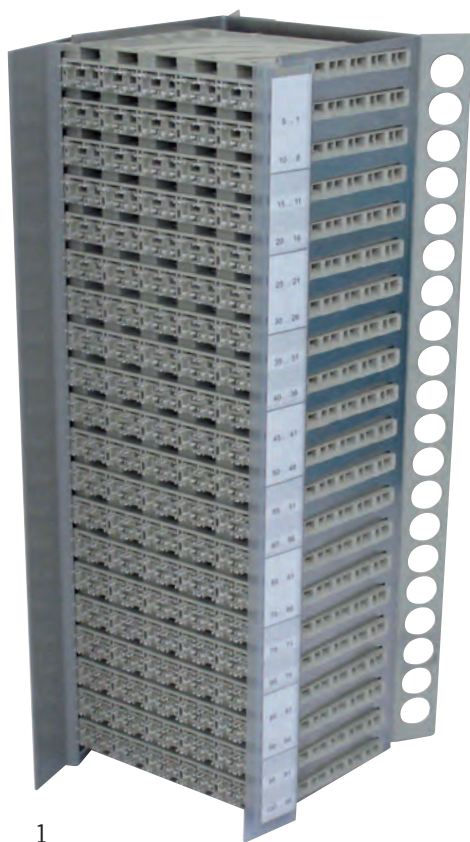
Disconnection block 71

- For vertical installation
- Installation dimensions: 290 mm
- Attachment dimensions: 210 mm

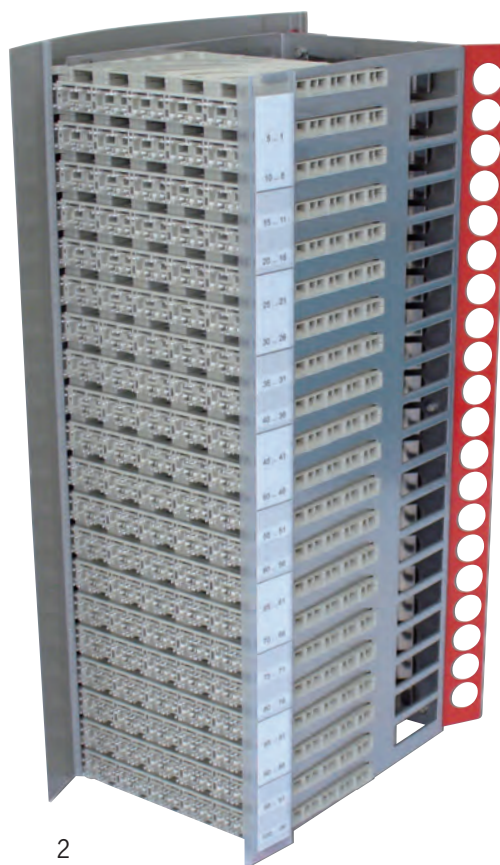
Item	Item no.	Fig.
71/100 for 100 twisted pairs Without protection option 5-twisted-pair distributor components Depth: 87 mm	1071 020/S	1
71/80 for 80 twisted pairs Without protection option 4-twisted-pair distributor components Depth: 87 mm	1071 044	2
71/100 for 100 twisted pairs With protection option 5-twisted-pair distributor components Depth: 129 mm	1071 026/S	



Products discontinued. Stock clearance
See page 262 for successor product.



1



2

Overvoltage protection magazine 71

- Overvoltage protection magazine for disconnection block 71
- Coarse protection
- 230 V, 10 kA, fail-safe

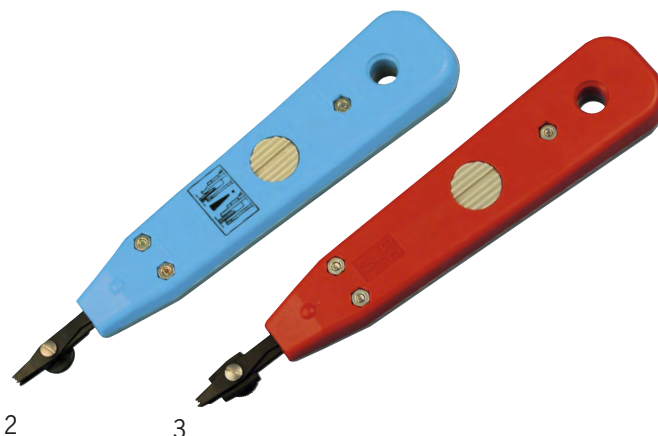
Item	Item no.	Fig.
Overvoltage arrester magazine 71/5 Fitted with 10 2-pole arresters 8x6, 230 V, 10 kA, fail-safe	4071 003	1



1

CobiNet insertion tool 71

Item	Item no.	Fig.
Insertion tool for series 71 For A and V terminals	3071 235	2
Insertion tool For series 71/1000RT/2000/5000	3010 008	3



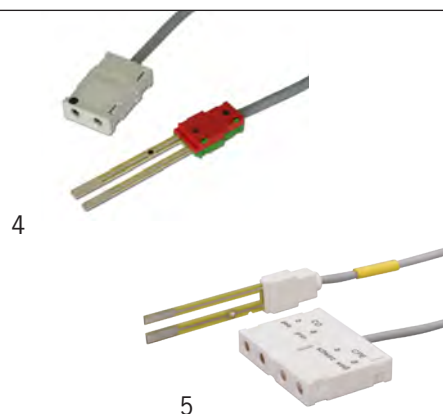
2

3

Test cords

CobiNet test cords 71

Item	Item no.	Fig.
Test cord 71, 2-pin, fitted with main distributor plug 71 and 2 jacks (4 mm) for banana plugs, for parallel connection to a twisted pair, length: 0.25 m	3071 137	4
Test cord 71 (7065), 4-pin, fitted with main distributor plug 71 and 4 jacks (4 mm) for banana plugs, separates wire path, length: 0.25 m	3071 150.1	5



4

5

Wall-mounted distribution cabinets

CobiNet WVS wall-mounted distribution cabinet with Z rail

- Closed steel plate distribution cabinet
- Door with swivelling lever handle for profile half-cylinder and 3-point locking rod
- Incl. double-bit insert
- For the accommodation of series 71 – series 71/17 disconnection blocks with 210 mm attachment dimension
- Cable entry from above and below via brush strips
- Protection class: IP40
- RAL 7035 (light grey)



1

Distributor size	Item no.	Fig.
WVS 100 Dimensions (W x H x D): 400 x 600 x 320 mm Capacity: 1 x 100 twisted pairs Number of rows: 1	2040 064	
WVS 200 Dimensions (W x H x D): 600 x 600 x 320 mm Capacity: 2 x 100 twisted pairs Number of rows: 2	2040 065	1
WVS 400 Dimensions (W x H x D): 600 x 800 x 320 mm Capacity: 2 x 200 twisted pairs Number of rows: 2	2040 066	
WVS 600 Dimensions (W x H x D): 600 x 1200 x 320 mm Capacity: 2 x 300 twisted pairs Number of rows: 2	2040 067	
WVS 900 Dimensions (W x H x D): 800 x 1300 x 320 mm Capacity: 3 x 300 twisted pairs Number of rows: 3	2040 068	
WVS 1200 Dimensions (W x H x D): 1000 x 1200 x 320 mm Capacity: 4 x 300 twisted pairs Number of rows: 4	2040 069	



Ready-to-assemble delivery!

CobiNet IP54 upgrade kit for wall-mounted distribution cabinets with Z rail

- 1 kit = 2 pcs
- Incl. sealing nipple



2



3

Item	Item no.	Fig.
Suitable for WVS 100 Panel for cable gland (6x M25, 2x M32, 1x M40)	2040 999/1	
Suitable for WVS 200/400/600 Panel for cable gland (6x M25, 6x M32, 4x M50)	2040 999/2	2
Suitable for WVS 900 Panel for cable gland (11x M25, 8x M32, 6x M50)	2040 999/3	3

System 71 – system 71/17

Free-standing distribution cabinets

CobiNet SVS free-standing distribution cabinet with Z rail

- Closed steel plate distribution cabinet
- Incl. double-bit insert
- For the accommodation of series 71 – series 71/17 disconnection blocks with 210 mm attachment dimension
- Cabinet with removable side walls, stackable
- Cable entry from above via sponge rubber profile, from below via split base plate
- Protection class: IP54 with cable entry from below, otherwise IP40
- RAL 7035 (light grey)



1

Distributor size	Item no.	Fig.
SVS 1000 Dimensions (W x H x D): 600 x 2000 x 400 mm Capacity: 2 x 500 twisted pairs Number of rows: 2 Door with swivelling lever handle for profile half-cylinder and 3-point locking rod	2050 001	
SVS 1500 Dimensions (W x H x D): 800 x 2000 x 400 mm Capacity: 3 x 500 twisted pairs Number of rows: 3 Door with swivelling lever handle for profile half-cylinder and 3-point locking rod	2050 002	1
SVS 2000 Dimensions (W x H x D): 1000 x 2000 x 400 mm Capacity: 4 x 500 twisted pairs Number of rows: 4 Double door with swivelling lever handle for profile half-cylinder and 3-point locking rod	2050 003	
SVS 2500 Dimensions (W x H x D): 1200 x 2000 x 400 mm Capacity: 5 x 500 twisted pairs Number of rows: 5 Double door with swivelling lever handle for profile half-cylinder and 3-point locking rod	2050 004	

Ready-to-assemble
delivery!

Free-standing distribution cabinets

CobiNet base for free-standing distribution cabinets with assembly channel, height: 100 mm



1

Item	Item no.	Fig.
Suitable for SVP/SVL 1200 and SVS 1000	5010 108	1
Suitable for SVP/SVL 1800 and SVS 1500	5010 109	
Suitable for SVP/SVL 2400 and SVS 2000	5010 110	
Suitable for SVP/SVL 3000 and SVS 2500	5010 111	

CobiNet base for free-standing distribution cabinets with assembly channel, height: 200 mm



2

Item	Item no.	Fig.
Suitable for SVP/SVL 1200 and SVS 1000	5010 104	2
Suitable for SVP/SVL 1800 and SVS 1500	5010 105	
Suitable for SVP/SVL 2400 and SVS 2000	5010 106	
Suitable for SVP/SVL 3000 and SVS 2500	5010 107	

CobiNet IP54 upgrade kit for free-standing distribution cabinets with Z rail

- 1 kit = 2 pcs
- Incl. sealing nipple

Item	Item no.	Fig.
Suitable for SVS 1000 Panel for cable glands (6x M25, 6x M32, 4x M50)	2040 999/8	3
Suitable for SSVS 1500 Panel for cable glands (10x M25, 8x M32, 6x M50)	2040 999/7	
Suitable for SVS 2000 Panel for cable glands (12x M25, 12x M32, 8x M50)	2040 999/5	4
Suitable for SVS 2500 Panel for cable glands (16x M25, 14x M32, 10x M50)	2040 999/6	



3



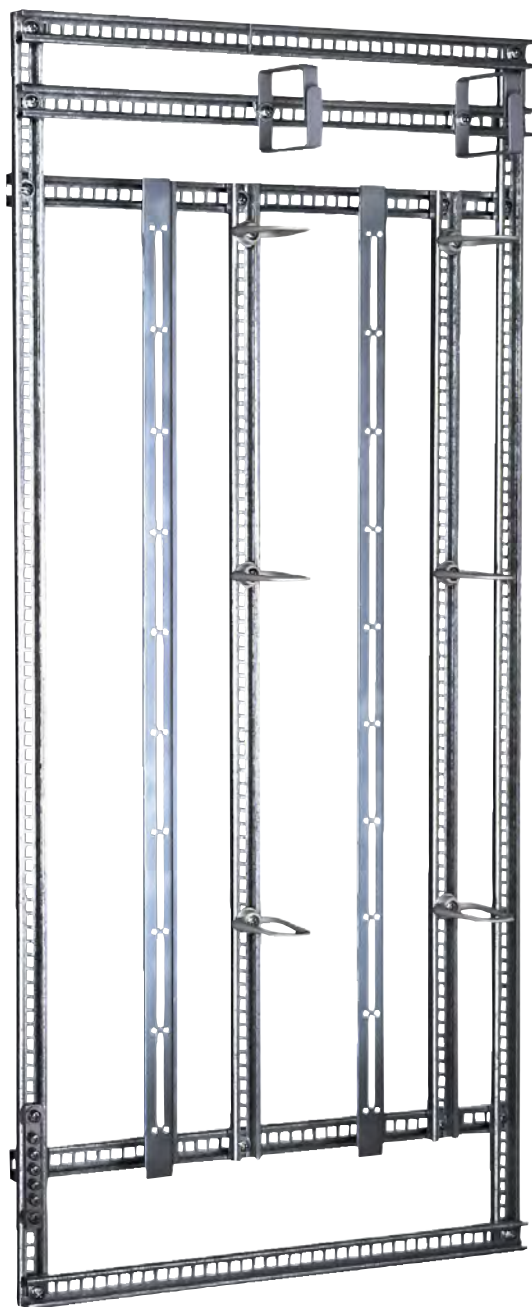
4

System 71 – system 71/17

Free-standing distribution cabinets

CobiNet WVGs wall-mounted distribution frame with Z rail as an assembly kit

- For the accommodation of series 71 – series 71/17 disconnection blocks with 210 mm attachment dimension
- C rails for wall attachment
- Horizontal and vertical jumper wire guide
- Assembly kit



1

i Additional designs
on request

Distributor size	Item no.	Fig.
WVGs 2/400 Dimensions (W x H x D): 530 x 960 x 140 mm Capacity: 2 x 200 twisted pairs Number of rows: 2	2060 020	
WVGs 2/600 Dimensions (W x H x D): 530 x 1160 x 140 mm Capacity: 2 x 300 twisted pairs Number of rows: 2	2060 021	
WVGs 2/800 Dimensions (W x H x D): 530 x 1365 x 140 mm Capacity: 2 x 400 twisted pairs Number of rows: 2	2060 022	1
WVGs 2/1000 Dimensions (W x H x D): 530 x 2065 x 140 mm Capacity: 2 x 500 twisted pairs Number of rows: 2	2060 023	
WVGs 3/600 Dimensions (W x H x D): 750 x 969 x 140 mm Capacity: 3 x 200 twisted pairs Number of rows: 3	2060 024	
WVGs 3/900 Dimensions (W x H x D): 750 x 1160 x 140 mm Capacity: 3 x 300 twisted pairs Number of rows: 3	2060 025	
WVGs 3/1200 Dimensions (W x H x D): 750 x 1365 x 140 mm Capacity: 3 x 400 twisted pairs Number of rows: 3	2060 026	
WVGs 3/1500 Dimensions (W x H x D): 750 x 2065 x 140 mm Capacity: 3 x 500 twisted pairs Number of rows: 3	2060 027	

About LSA series 1/modules

Series 1 is made up of modules for the connection of 10 or 20 twisted pairs. These are generally produced as LSA connection modules.

Attachment is standardised using attachment dimensions. With 10-twisted-pair modules, this dimension is 96 mm, or 170 mm with 20 twisted-pair modules. There are historical reasons for these dimensions, which have been adopted by conventional solder and screw modules, meaning that these modules can be replaced by the series 1 modules.

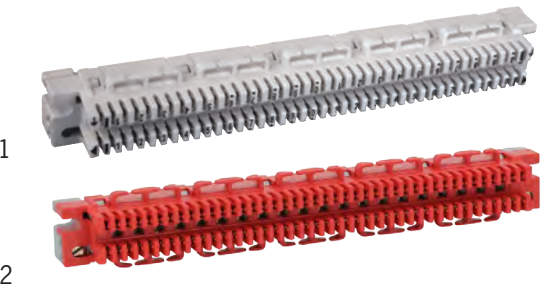
CobiNet connection module 1/20 for 20 twisted pairs

- As per DIN 47608 Form B
- For screw attachment
- Printed: Jumper and cable side 1...0 (2x)

Item	Item no.	Fig.
Connection module 1/20 for 20 twisted pairs	1010 006	1
Earth module 1/84	1010 010	2

Series 1 features earth modules with a screw connection for earthing, as well as various different accessories.

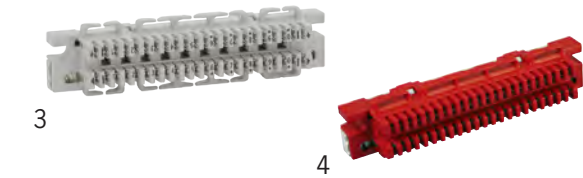
Series 1 can be used in smaller distributors (horizontal area) for the distribution of telecommunications cables.



CobiNet connection module 1/10 for 10 twisted pairs

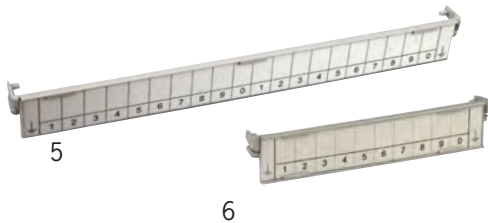
- As per DIN 47608 Form A
- For screw attachment
- Printed: Jumper and cable side 1...0 (2x)

Item	Item no.	Fig.
Connection module 1/10 for 10 twisted pairs	1010 003	3
Earth module 1/44	1010 008	4



CobiNet hinged label holder 1/20

- With printed paper label and transparent cover



Item	Item no.	Fig.
For attachment onto LSA modules (20 twisted pairs), printed (one side): 1...0 (2x)	3030 099	5
For attachment onto LSA modules (10 twisted pairs), printed (one side): 1...0	3030 098	6

CobiNet DIN rail adapter 1/10

- For the assembly of LSA modules with a 96 mm attachment dimension onto DIN rails TS35 as per DIN EN 60715

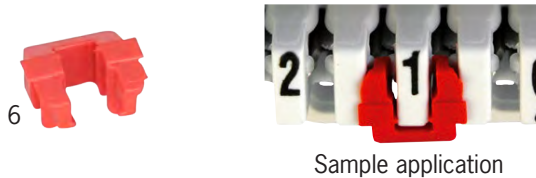


Sample application

Item	Item no.	Fig.
DIN rail adapter 1/10	3030 125	7

CobiNet marking cap 1/1, red

- For labelling important twisted pairs on LSA modules



Item	Item no.	Fig.
Marking cap 1/1, red	3030 100	6

CobiNet test cord 1/1

- For LSA connection modules
- 2-pin cable with an LSA plug and 2 jacks for banana plugs
- Length: 0.2 m



Item	Item no.	Fig.
Test cord 1/1	3020 001/0.2	5

CobiNet plastic distributor case VKK

- Internal distributor for surface-mounted assembly
- Cable entry possible from 4 sides
- Protection class: IP30
- RAL 7032 (pebble grey)

Item	Item no.	Fig.
VKK I for 2 LSA modules 1/10 Dimensions (W x H x D): 130 x 115 x 45 mm	2021 032	
VKK II for 1 LSA module 1/20 Dimensions (W x H x D): 89 x 200 x 50 mm	2021 038	1
VKK III for 2 LSA modules 1/20 Dimensions (W x H x D): 179 x 200 x 50 mm	2021 039	



1 Delivery without module

CobiNet DIN connection module

- With additional connection screw for functional earth and identification strips
- Material: Insulating element ABS/PC, nickel-plated contacts (screws)

Item	Item no.	Fig.
Screw connection/screw connection for 10 twisted pairs as per DIN 47614, Form A Attachment dimensions: 96 mm	1001 001	
Screw connection/solder connection for 10 twisted pairs as per DIN 47614, Form A Attachment dimensions: 96 mm	1001 005	
Screw connection/screw connection for 20 twisted pairs as per DIN 47614, Form B Attachment dimensions: 170 mm	1002 001	2
Screw connection/solder connection for 20 twisted pairs as per DIN 47614, Form B Attachment dimensions: 170 mm	1002 005	

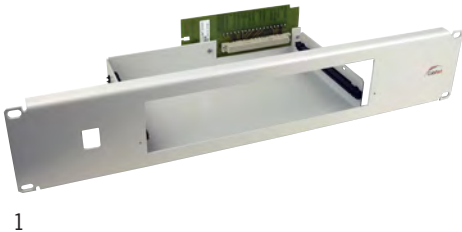


NT/NTBA subracks

CobiNet NT subrack 19" (width: 482.6 mm) 2 RU

- With printed circuit boards on the back for the insertion of NT network elements
- With recess for RJ45 coupling
- Incl. mounting kit

Item	Item no.	Fig.
NT subrack 19" (width: 482.6 mm) 2 RU	5010 078	1



CobiNet NTBA subrack 19" (width: 482.6 mm) 1 RU

- RJ45 coupling in the front of the frame
- RAL 7035 (light grey)

Item	Item no.	Fig.
For the accommodation of 2 NTBAs	C-5010 277	
For the accommodation of 3 NTBAs	C-5010 278	2



CobiNet NTBA subrack 19" (width: 482.6 mm) 3 RU/84 HP

- NTBA support plates are required for standard NTBAs
- For the accommodation of 7 NTBAs with an NTBA width of > 6 HP or 14 NTBAs with an NTBA width of ≤ 6 HP

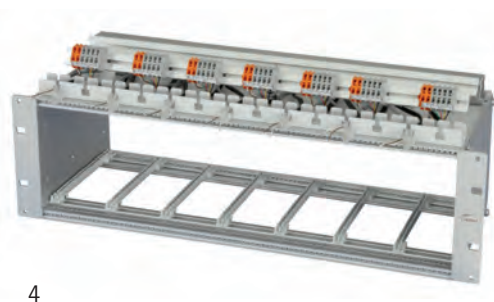
Item	Item no.	Fig.
NTBA subrack 19" (width: 482.6 mm) 3 RU/84 HP	C-5010 256	3



CobiNet NTBA subrack 19" (width: 482.6 mm) 4 RU/84 HP

- For each NTBA, the S_0 and Uk_0 connections are already pre-wired (S_0 4-pin with RJ45 plug on one side, Uk_0 2-pin)
- NTBA support plates are required for standard NTBAs
- Pre-wired
- For the accommodation of 7 NTBAs with an NTBA width of > 6 HP or 14 NTBAs with an NTBA width of ≤ 6 HP

Item	Item no.	Fig.
NTBA subrack 19" (width: 482.6 mm) 4 RU/84 HP	C-5010 257	4



4

CobiNet NTBA subrack 10" 3 RU/40 HP

- NTBA support plates are required for standard NTBAs
- For the accommodation of 3 NTBAs with an NTBA width of > 6 HP or 6 NTBAs with an NTBA width of ≤ 6 HP

Item	Item no.	Fig.
NTBA subrack 10" 3 RU/40 HP	C-5016 256	1



1

CobiNet NTBA wiring set

- For one NTBA
- Incl. labelling
- S_0 and Uk_0 connecting cable with spring clip

Item	Item no.	Fig.
NTBA wiring set	C-5010 260	2



2

CobiNet guide rail

- Edge thickness: 1.6-2.0 mm
- Nominal length (corresponds to insertion depth): 160 mm
- Width: 2 HP
- For the accommodation of an NTBA support plate

Item	Item no.	Fig.
Guide rail	C-5010 259	3



3

CobiNet NTBA support plate 3 RU

- For the accommodation of an NTBA and insertion into an NTBA subrack, 3 RU
- Spacing between the attachment holes: 100 mm
- Suitable for Deutsche Telekom AG NTBAs

Item	Item no.	Fig.
NTBA support plate 3 RU	5020 033	4

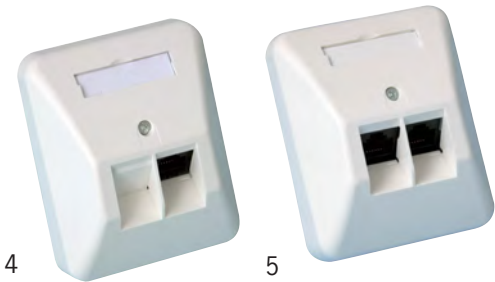


4

UAE/TAE outlets

CobiNet outlet Class C UAE, surface-mounted assembly

- Cable connection via LSA contacts
- Incl. reducers for RJ11/RJ12 plug
- RAL 9010 (pure white)



Item	Item no.	Fig.
UAE 8(8), surface-mounted 1x RJ45, 8-pin Cover parts, matt	5041 041/L	4
UAE 8/8(8), surface-mounted 2x RJ45, 8-pin Cover parts, matt For the connection of two separate terminals	5041 044/L	5
UAE 2x8(8), surface-mounted 2x RJ45, 8-pin Cover parts, glossy For the connection of two terminals connected in parallel	5041 071/L	

CobiNet outlet Class C TAE, surface-mounted assembly

- RAL 9010 (pure white)



Item	Item no.	Fig.
TAE 1x6 F, surface-mounted	5041 001	5
TAE 1x6 N, surface-mounted	5041 004	
TAE 6/6 F/F, surface-mounted	5041 013	
TAE 2x6 N/F, surface-mounted	5041 016	
TAE 2x6/6 NF/F, surface-mounted	5041 010	
TAE 3x6 NFN, surface-mounted	5041 007	

CobiNet outlet Class C UAE, flush-mounted assembly

- Cable connection via LSA contacts
- Incl. reducers for RJ11/RJ12 plug
- Cover parts, glossy
- Central plate (50 x 50 mm)
- Cover plate (80 x 80 mm)
- With spreader claws
- RAL 9010 (pure white)



Item	Item no.	Fig.
UAE 8(8), flush-mounted 1x RJ45, 8-pin 360° retaining ring	5041 042/L/UP	
UAE 8/8(8), flush-mounted 2x RJ45, 8-pin For the connection of two separate terminals Support bracket on left and right side	5041 045/L/UP	6
UAE 2x8(8), flush-mounted 2x RJ45, 8-pin For the connection of two terminals connected in parallel 360° retaining ring	5041 072/L/UP	

CobiNet outlet Class C TAE, flush-mounted assembly

- RAL 9010 (pure white)



Item	Item no.	Fig.
TAE 1x6 F, flush-mounted	5041 002/UP	2
TAE 1x6 N, flush-mounted	5041 005/UP	
TAE 6/6 F/F, flush-mounted	5041 014/UP	
TAE 2x6 N/F, flush-mounted	5041 017/UP	
TAE 2x6/6 NF/F, flush-mounted	5041 011/UP	
TAE 3x6 NFN, flush-mounted	5041 008/UP	

CobiNet outlet Class C UAE, flush-mounted assembly or channel installation

- Cable connection via LSA contacts
- Incl. reducers for RJ11/RJ12 plug
- Cover parts, glossy
- Central plate (50 x 50 mm)
- With spreader claws
- RAL 9010 (pure white)



1

Item	Item no.	Fig.
UAE 8(8) FMC 1x RJ45, 8-pin 360° retaining ring	5041 042/L	1
UAE 8/8(8) FMC 2x RJ45, 8-pin For the connection of two separate terminals Support bracket on left and right side	5041 045/L	
UAE 2x8(8) FMC 2x RJ45, 8-pin For the connection of two terminals connected in parallel 360° retaining ring	5041 072/L	

CobiNet outlet Class C UAE, channel installation

- Cable connection via LSA contacts
- Incl. reducers for RJ11/RJ12 plug
- Cover parts, glossy
- Central plate (50 x 50 mm)
- Support bracket on left and right side
- RAL 9010 (pure white)



3

Item	Item no.	Fig.
UAE 8(8) IC 1x RJ45, 8-pin	5041 043/L	
UAE 8/8(8) IC 2x RJ45, 8-pin For the connection of two separate terminals	5041 046/L	3
UAE 2x8(8) IC 2x RJ45, 8-pin For the connection of two terminals connected in parallel	5041 073/L	

CobiNet patch panel 19"

- For 19" fixed installation
- 1.5 RU



4

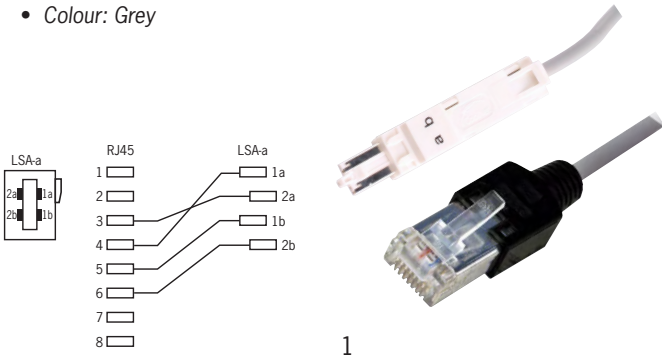
Item	Item no.	Fig.
Patch panel 19" with six 1x 6 TAE N;	5041 019	4
Patch panel 19" with six 3x 6 TAE NFN	5041 020	

Class C cabling

Distributor cords

CobiNet distributor cord, unshielded

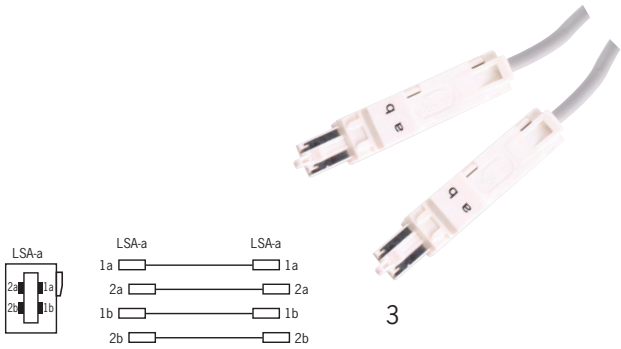
- With LSA plug for 1 twisted pair, 4-pin, and RJ45 plug (TPU4-RJ45)
- For coupling telephone services into the structured cabling system
- Colour: Grey



Item	Item no.	Fig.
Length: 0.5 m	5030 041/0.5.1	1
Length: 1.0 m	5030 041/1.0.1	
Length: 2.0 m	5030 041/2.0.1	
Length: 3.0 m	5030 041/3.0.1	
Length: 5.0 m	5030 041/5.0.1	

CobiNet distributor cord, unshielded

- With two LSA plugs for 1 twisted pair, 4-pin (TPU4-TPU4)
- For patching between TPU modules
- Colour: Grey



Item	Item no.	Fig.
Length: 0.5 m	5030 023/0.5.1	3
Length: 1.0 m	5030 023/1.0.1	
Length: 2.0 m	5030 023/2.0.1	
Length: 3.0 m	5030 023/3.0.1	
Length: 5.0 m	5030 023/5.0.1	

i Additional lengths on request

CobiNet modular cable

- RJ45 (8/8)/RJ45 (8/8)
- Colour: Black
- Flat cable
- Configuration 1:1

1

Item	Item no.	Fig.
Length: 0.5 m	5032 082/0.5	1
Length: 1.0 m	5032 082/1.0	
Length: 2.0 m	5032 082/2.0	
Length: 3.0 m	5032 082/3.0	
Length: 5.0 m	5032 082/5.0	

CobiNet modular cable

- RJ12 (6/6)/RJ45 (8/8)
- Colour: Black
- Flat cable
- Configuration:
RJ12 plug – RJ45 plug
1-2, 2-3, 3-4, 4-5, 5-6, 6-7

3

Item	Item no.	Fig.
Length: 0.5 m	5033 082/0.5	3
Length: 1.0 m	5033 082/1.0	
Length: 2.0 m	5033 082/2.0	
Length: 3.0 m	5033 082/3.0	
Length: 5.0 m	5033 082/5.0	

 Additional lengths
on request

CobiNet modular cable

- RJ12 (6/6)/RJ12 (6/6)
- Colour: Black
- Flat cable
- Configuration 1:1

2

Item	Item no.	Fig.
Length: 0.5 m	5030 084/0.5	2
Length: 1.0 m	5030 084/1.0	
Length: 2.0 m	5030 084/2.0	
Length: 3.0 m	5030 084/3.0	
Length: 5.0 m	5030 084/5.0	

CobiNet ISDN cable

- RJ45 (8/4)/RJ45 (8/4)
- Colour: Black
- Flat cable
- Configuration: 3-3, 4-4, 5-5, 6-6

4

Item	Item no.	Fig.
Length: 0.5 m	5031 082/0.5	4
Length: 1.0 m	5031 082/1.0	
Length: 2.0 m	5031 082/2.0	
Length: 3.0 m	5031 082/3.0	
Length: 5.0 m	5031 082/5.0	

 All item numbers also available with round cables: Item number + /R
Example: 5031 082/0.5R = ISDN cable RJ45 (8/4)/RJ45 (8/4) with round cable

Class C cabling

RJ45 telephony distributor

CobiNet RJ45 telephone patch panel with wiring channel

- Class C as per ISO/IEC 11801
- Configuration of the RJ45 jack: 3-6, 4-5
- Cable connection via reverse LSA modules
- Wiring channel on the back for optimum cable feeding
- Height: 1 RU, width: 19" (482.6 mm)
- Colour: RAL 7035 (light grey)
- Earthing via earthing screw M6 in accordance with DIN VDE 0100
- Incl. earth cable and cable ties
- Incl. mounting kit



1

Item	Front panel colour	Item no.	Fig.
RJ45 telephone patch panel 25x	RAL 7035 (light grey)	6941 2410	1
	RAL 9005 (jet black)	6941 2418	
RJ45 telephone patch panel 32x	RAL 7035 (light grey)	6941 3410	
	RAL 9005 (jet black)	6941 3418	
RJ45 telephone patch panel 50x	RAL 7035 (light grey)	6941 5410	2
	RAL 9005 (jet black)	6941 5418	



2

CobiNet RJ45 telephone patch panel without wiring channel

- Class C as per ISO/IEC 11801
- Configuration of the RJ45 jack: 3-6, 4-5
- Cable connection via reverse LSA modules
- Height: 1 RU, width: 19" (482.6 mm)
- Colour: RAL 7035 (light grey)
- Earthing via earthing screw M6 in accordance with DIN VDE 0100
- Incl. earth cable and cable ties
- Incl. mounting kit



1

Item	Front panel colour	Item no.	Fig.
RJ45 telephone patch panel 25x	RAL 7035 (light grey)	6941 2430	1
	RAL 9005 (jet black)	6941 2438	
RJ45 telephone patch panel 50x	RAL 7035 (light grey)	6941 5430	2
	RAL 9005 (jet black)	6941 5438	



2

Overview



LSA-HD®/LSA-HD® P connection technology

LSA-HD®/LSA-HD® P connection modules are used in numerous access networks of international network operators as pre-assembled cable heads, for example. In this case, existing copper lines continue to be used for the provision of broadband services using a procedure known as vectoring. These networks are FTTC networks (Fibre-to-the-Curb/Cabinet). New and existing outdoor cabinets (cross-connection cabinets, multifunctional enclosures) can be fitted with or expanded to include pre-assembled cable heads with twice the packaging density.

The main outstanding feature of LSA-HD/LSA-HD® P connection technology is the 100% increase in the packaging density, which is achieved thanks to the 180° contact position (cable side to jumper side).

When using LSA-HD® P connection technology, permanent rear overvoltage protection, which allows for jumpering and testing without any need to remove the protection, can be installed.

Principle of permanent overvoltage protection

LSA-HD®(-P)-RS disconnection module with permanent overvoltage protection

The jumper side (white) is accessible for jumpering and testing work.





Comparison of cable heads



Conventional CH 80 with BR2 modules for 100 twisted pairs (still available)



CH 08HD with LSA-HD® modules for 200 twisted pairs (twice the packaging density with the same space requirements)



Expansion of a multifunctional enclosure fitted with a CH 80 for 100 twisted pairs to a CH 08HD for 200 twisted pairs, for the connection of active system technology.

Overview of cable heads (CH)

LSA: Soldering, screwing and stripping-free

HD: High packaging density (High Density)

RS: Profile rod

P: Permanent rear overvoltage protection

TL: Toolless

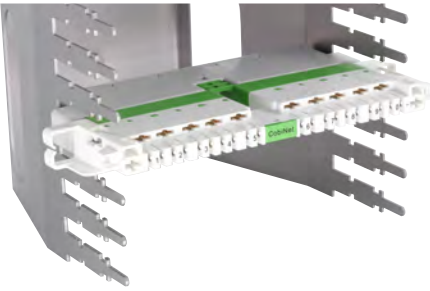
LSA-HD®(-P)-RS Profile rod



Cable head types	OP CH 15 RS
Grid dimension	13.5 mm
Cross-connection cabinet with profile rod frame	✓
Cross-connection cabinet with assembly frame	-
Multifunctional enclosure with active system technology	✓
Counting method 10 twisted pairs	✓
Counting method 8 twisted pairs	-
Disconnection module	✓
Connection module	✓
Core diameter 0.35 mm to 0.65 mm	✓
Core diameter 0.4 mm to 0.8 mm	on request
Silver-plated contact surface	✓
LSA contact with 45° incline	✓
LSA contact with 45° incline and gel (water-proof)	-
Insertion tool required	✓
High packaging density HD	✓
Pluggable front overvoltage protection	-
Pluggable rear overvoltage protection (permanent)	✓

Overview of cable heads (CH)

LSA-HD®(-P)
Backmount frame



LSA-HD®
Backmount frame



LSA-TL
Backmount frame



OP CH 11

CH 08 HD

CH 14 TL

13.5 mm

13.5 mm

22.5 mm

-

-

-

-

✓

✓

✓

✓

✓

✓

✓

✓

✓

-

-

✓

✓

✓

✓

✓

-

✓

✓

✓

✓

✓

-

✓

✓

✓

✓

✓

-

-

-

✓

✓

✓

-

✓

✓

-

-

✓

✓

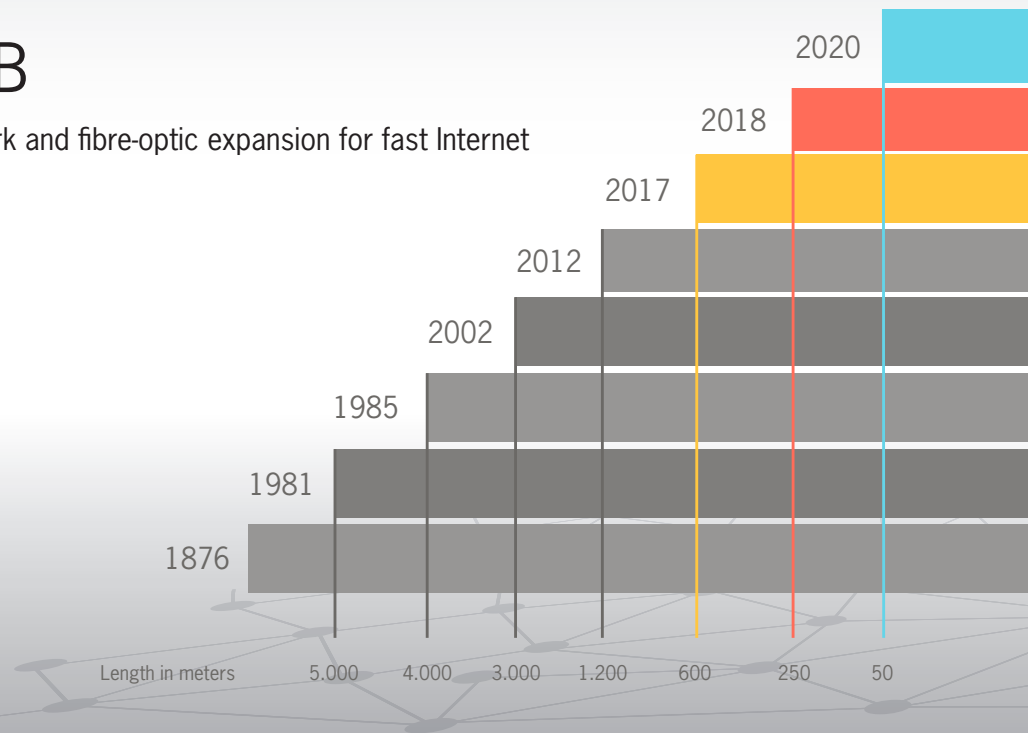
✓

-

-

Roadmap to GB

Performance in a copper network and fibre-optic expansion for fast Internet



Infrastructure

It was over 120 years ago that the first copper cable changed how people communicated thanks to its versatile application possibilities. The close symbiosis between copper and electricity is still the physical requirement for connectivity to this day. The use of fibre-optic cables brought quartz glass and plastic (polymer optical fibres), as well as light, into the mix.

At the start, fibre-optic cables had too much absorption compared to electrical coaxial cables, which meant that they could not be used for longer distances. But, over time, the very opposite has become the case. Fibre-optic cables now span our entire planet and form the backbone of global communication and the transfer of information.

Seen by many as the network of the future, the use of fibre-optic connections also plays a major role at a national level. In Germany, with its excellently developed system of copper cables, the cost of investment in wiring up every house with fibre-optic technology (Fibre-to-the-Building (FTTB) or Fibre-to-the-Home (FTTH)) would be extremely high, and comprehensive expansion would be very time-consuming.

With vectoring, there is now a fully developed technology for existing copper cables, which makes data transfers four times faster and can therefore quench the thirst for data that we will see over the coming years.

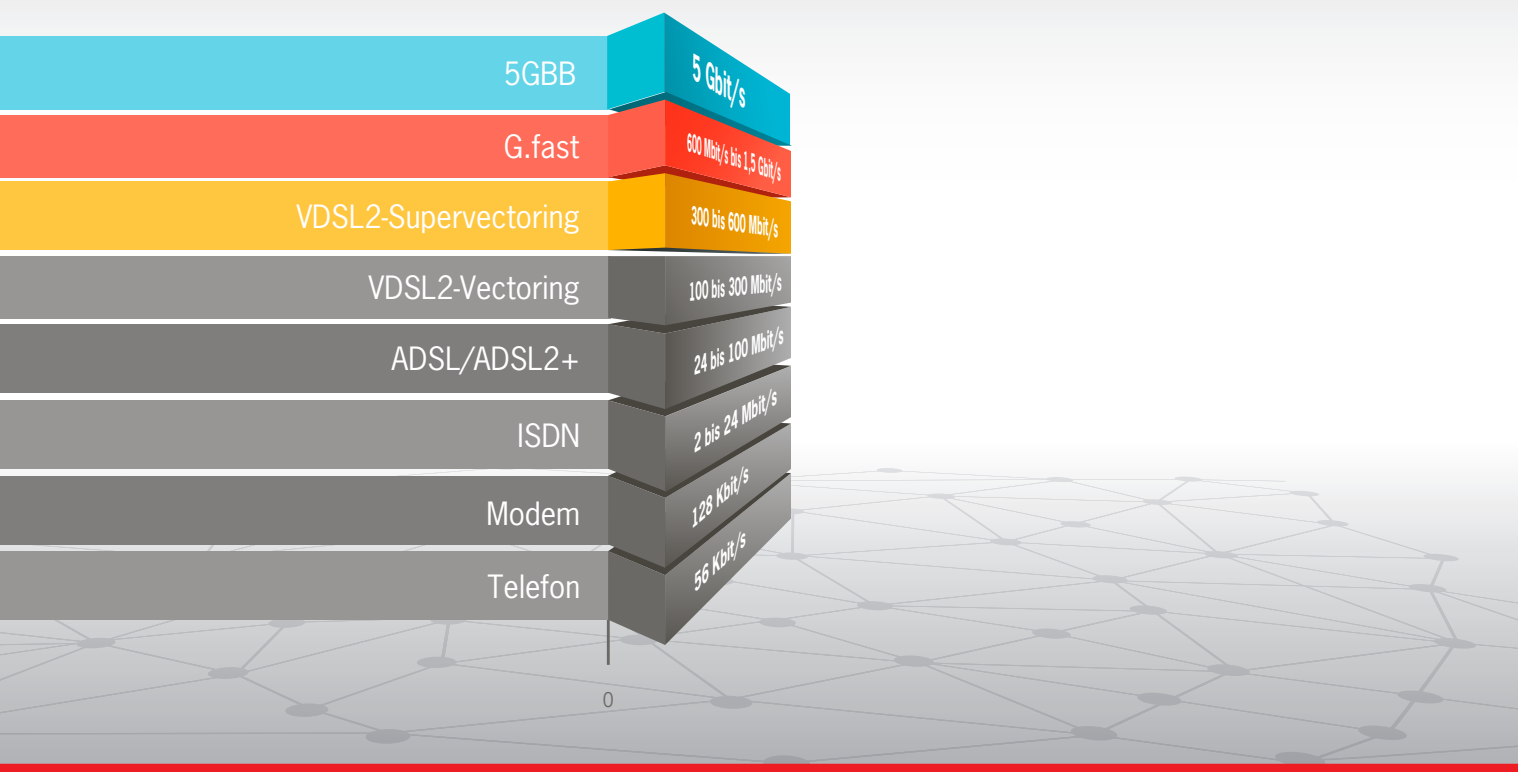
With the expansion of vectoring, the fibre-optic cable is routed right up to the multifunctional enclosure at the kerb-side, which is referred to as Fibre-to-the-Curb or Fibre-to-the-Cabinet (FTTC). From this cabinet, the light signal is converted into an electrical signal, and then distributed to customers through copper lines via cable heads.

Technology

Limiting factors for the available transfer speed in data traffic are primarily line attenuation and crosstalk. The attenuation is predominantly dependent on the length of the cable. The amount of crosstalk that occurs is determined by the mutual interference of neighbouring cables.

In main cables or cross-connection cables, up to a few thousand subscriber lines are pooled together into a close space, and are subject to mutual crosstalk due to the structure of the cable.

The individual subscriber lines in one of these types of cables are usually used independently of one another for different purposes, for example as data access points via XDSL or for voice services such as ISDN or POTS, as well as by different access providers.



With VDSL2 vectoring, as well as reducing the length of customer and operating company lines to 500 m by means of a special channel coding, the mutual interference of neighbouring transfer lines is also reduced in a similar manner to headphones that suppress outside noise. Owing to the principles used, only one operating company has complete control over all individual lines within a main cable harness in order to ensure mutual compensation.

With the next expansion stage, known as "super vectoring", a simple software update in the multifunctional enclosure can once again increase the speed by over two-fold. In this stage too, the signal attenuation of the copper cable also becomes a weak point, so the maximum line path is limited to 300 m.

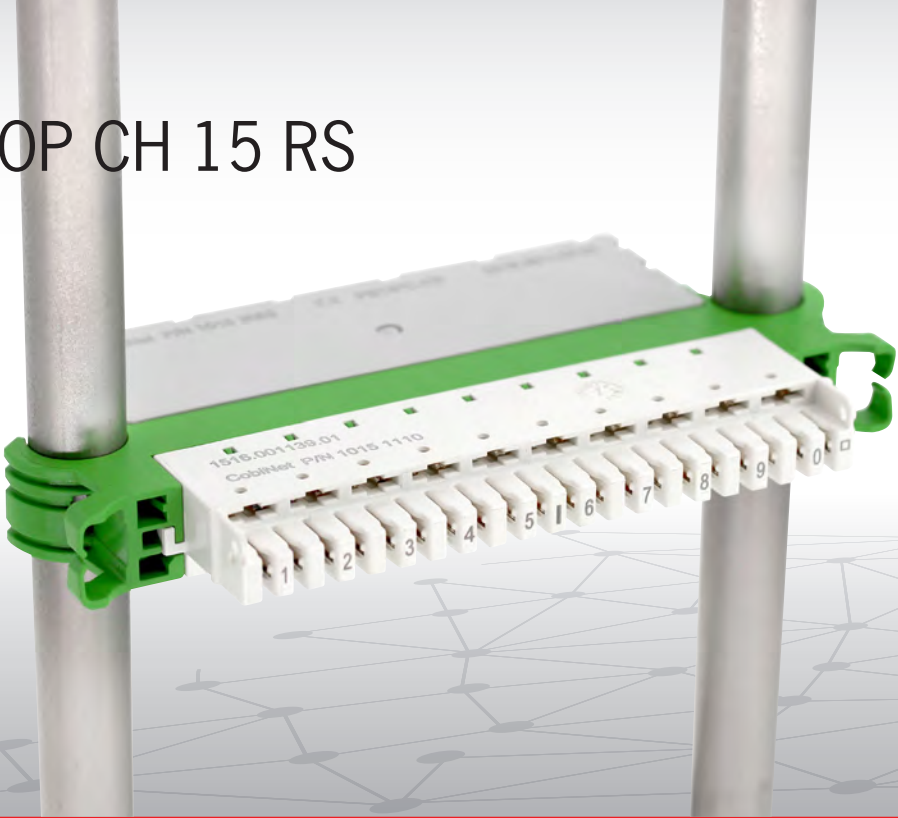
The vectoring process also plays a key role in the successor standard G.fast.

If speeds of 100 Mbit/s are achieved with VDSL2, or 250 Mbit/s with VDSL 2+, then bidirectional speeds of up to 500 Mbit/s can be achieved with the successor standard G.fast. To this end, the line length is limited to a maximum of 250 m, and the transmission frequency is increased. With this method, too, the crosstalk still needs to be minimised using vectoring.

The cable heads produced in-house by CobiNet have been ensuring top performance in telecommunications networks all over the world for many years. Why not benefit from this experience?

LSA-HD®(-P)-RS/OP CH 15 RS

LSA-HD®(-P)-RS modules are used in new or existing outdoor cabinets (cross-connection cabinets, multifunctional cabinets) with rows of profile rods for individual configuration. The OP CH 15 RS will also be available from 2018 onwards.



CobiNet LSA-HD®(-P)-RS modules

- For profile rods
- Pluggable permanent rear overvoltage protection

Item	Item no.	Fig.
LSA-HD®(-P)-RS connection module for overvoltage protection at the rear	1015 1010	1
LSA-HD®(-P)-RS disconnection module for overvoltage protection at the rear	1015 1110	2



1



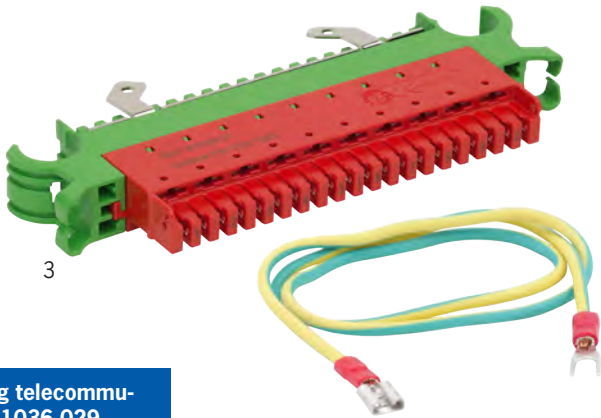
2



CobiNet LSA-HD® RS earth module

- For profile rods
- For connecting earth drain wires to the earth connection
- 20-pin
- Earth connection line 500 mm with cable lug

Item	Item no.	Fig.
LSA-HD® RS earth module	1015 1220	3



3



For information on earthing telecommunications cables, see Item 1036 029. Required when using LSA-HD®(-R)-S modules in a cross-connection cabinet

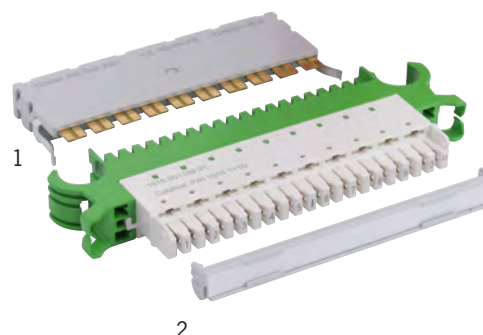


Sample application, cross-connection cabinet KVz 09 with a three-row profile rod frame, individually fitted with LSA-HD(-P)-RS modules

CobiNet LSA-HD®(-P)-RS overvoltage protection magazine

- For LSA-HD®(-P)-RS modules (1015 1010, 1015 1110)
- For 10 twisted pairs, fitted with 10x 3-pole arresters
- Pluggable permanent rear protection

Item	Item no.	Fig.
Overvoltage protection magazine 230 V, 5 kA, with fail-safe	1015 2052	1
Overvoltage protection magazine 420 V, 5 kA	1015 2154	
Hinged label holder	1015 3500	2

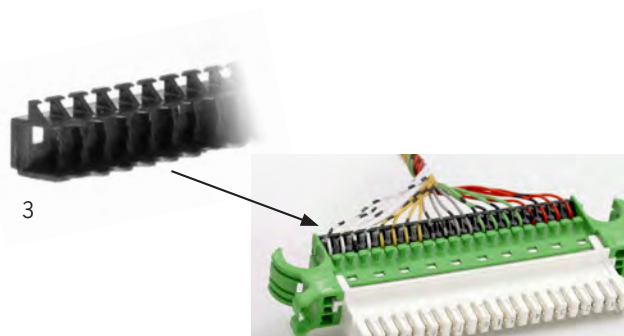


i For additional accessories, see LSA-HD® series

CobiNet LSA-HD®(-P)-RS strain relief comb

- For profile rods
- Used instead of the module strain relief
- Shortens assembly times by 30% per module

Item	Item no.	Fig.
LSA-HD®(-P)-RS strain relief comb	1015 3700	3

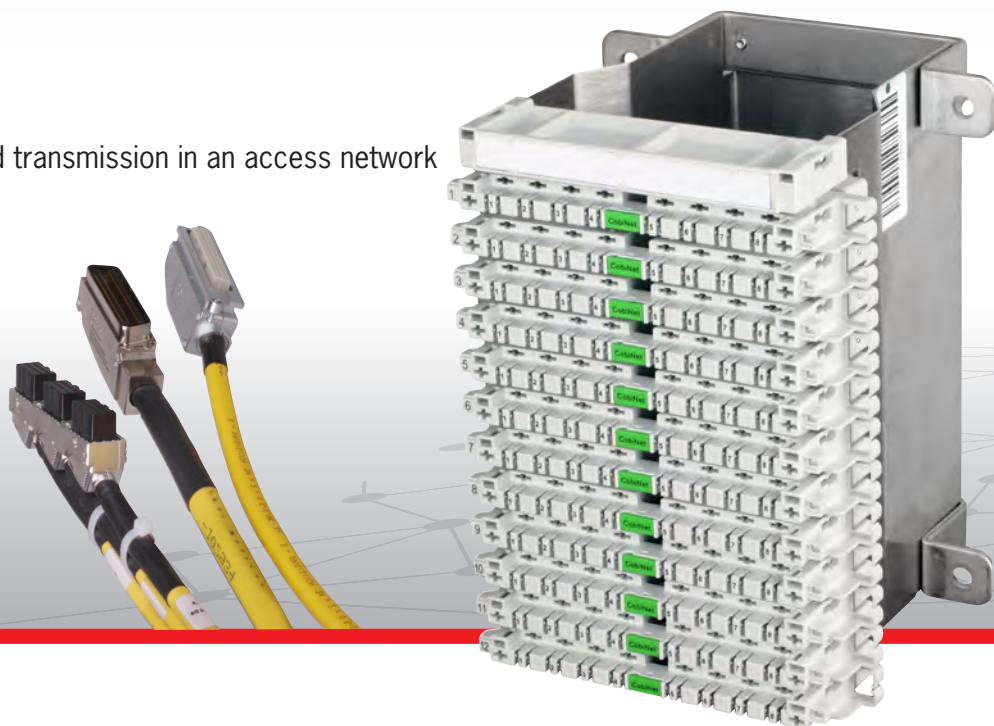


Assembly example

LSA-HD® P for 8 twisted pairs/10 twisted pairs/ OP CH 11

Layer 1 for vectoring

OP CH for high-speed transmission in an access network

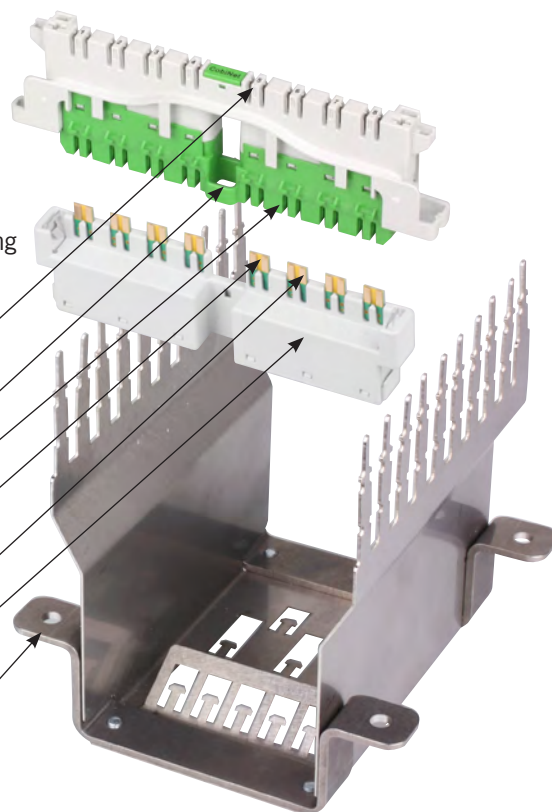


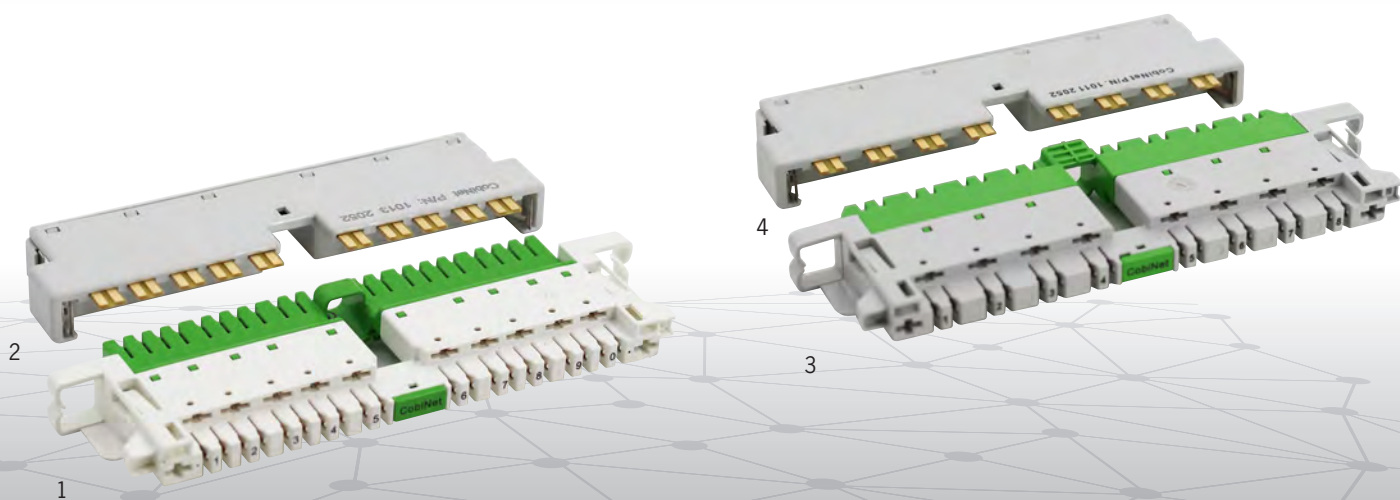
CobiNet LSA-HD® P 8 twisted pairs/10 twisted pairs continues the tried-and-tested LSA-HD® connection principle for applications where permanent overvoltage protection is required. As the overvoltage protection is positioned behind the module, jumpering and testing work can be carried out without firstly having to remove the overvoltage protection magazine.

With the OP CH 11, CobiNet has developed a cable head with permanent overvoltage protection that has been optimised for the requirements of DSLAM and MSAN system technologies and that is approved for use in the **Deutsche Telekom** network.

Benefits

- Tried-and-tested quality and reliability
- Existing LSA insertion tool can be used
- Test adapter and accessories from CH 08
- Compliance with 1TR9 for transmission technology in an outdoor housing
- Adaptation to the counting method for the transmission technology (8 twisted pairs/10 twisted pairs)
- Optimisation for xDSL thanks to preservation of the bundle up to the module
- 1-twisted-pair wire guidance
- No obstruction when connecting the module
- Measurements can be carried out without having to remove the overvoltage arrester magazine
- Permanent overvoltage protection
- Attachment of the OP CH11 into the telecommunications bay by means of a solid bracket





CobiNet OP CH 11 8 twisted pairs

	Item no.	Fig.
OP CH 11 72 twisted pairs, installation height 135 mm, assembled ept plug, 2 m	1011 4130/2.0	
OP CH 11 72 twisted pairs, installation height 135 mm, assembled ept plug, 3 m	1011 4130/3.0	
OP CH 11 96 twisted pairs, installation height 180 mm, assembled Amphenol plug, 2 m	1011 4340/2.0	
OP CH 11 96 twisted pairs, installation height 180 mm, assembled Amphenol plug, 3 m	1011 4340/3.0	
OP CH11 72 twisted pairs, installation height 135 mm, un-assembled with 9 connection modules	1011 4020	
OP CH11 96 twisted pairs, installation height 180 mm, un-assembled with 12 connection modules	1011 4040	
OP CH11 72 twisted pairs, installation height 135 mm, un-assembled with 9 disconnection modules	1011 4022	
OP CH11 96 twisted pairs, installation height 180 mm, un-assembled with 12 disconnection modules	1011 4042	

Accessories for CobiNet LSA-HD® P for 8 twisted pairs

	Item no.	
LSA-HD® P connection module for 8 twisted pairs	1011 1010	
LSA-HD® P disconnection module for 8 twisted pairs	1011 1110	3
LSA-HD® P overvoltage protection magazine for 8 twisted pairs, 230 V, 5 kA, fail-safe	1011 2052	4

CobiNet OP CH 11 10 twisted pairs

	Item no.
OP CH 11 100 twisted pairs, installation height 135 mm, un-assembled, with 10 disconnection modules	1013 4012
OP CH 11 200 twisted pairs, installation height 180 mm, un-assembled, with 20 disconnection modules	1013 4022

Accessories for CobiNet LSA-HD® P for 10 twisted pairs

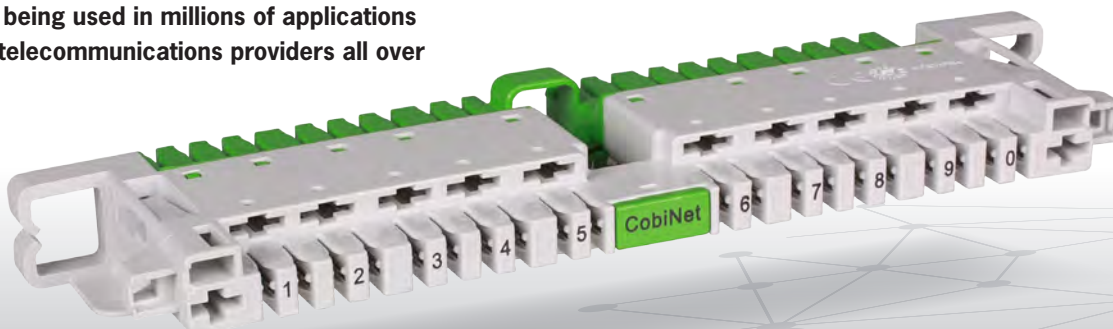
	Item no.	
LSA-HD® P connection module for 10 twisted pairs	1013 1010	
LSA-HD® P disconnection module for 10 twisted pairs	1013 1110	1
LSA-HD® P overvoltage protection magazine for 10 twisted pairs, 230 V, 5 kA, fail-safe	1013 2052	2



For additional accessories,
see LSA-HD® series

LSA-HD®/CH 08 HD

LSA-HD® is being used in millions of applications by leading telecommunications providers all over the world



The features of the LSA-HD® module at a glance:

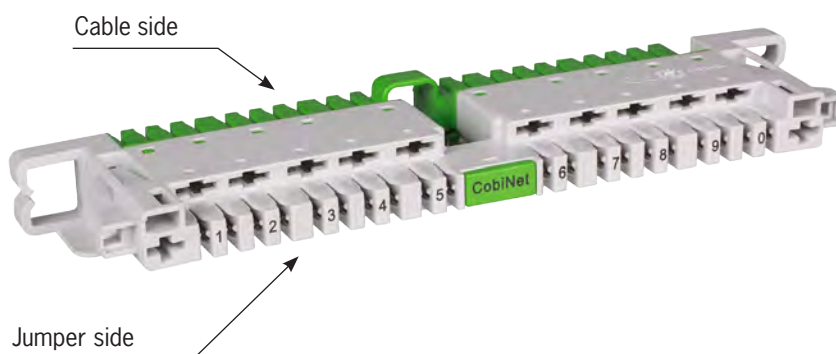
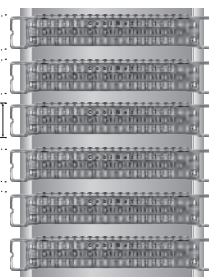
- Twice the packaging density compared to BR2
- Easy to assemble: Quick and easy installation thanks to the tried-and-tested CobiNet LSA-HD® technology
- Time savings and cost reductions
- Contact reliability: LSA contact with 45° incline ensures secure connections thanks to additional torsional forces (see right)
- Complete product range: Disconnection, connection and earth modules, overvoltage protection and a comprehensive range of accessories are all available
- Efficient: Connection and jumpering on each module side with the CobiNet LSA insertion tool with sensor (see page 36)
- Tried-and-tested: SGS-tested

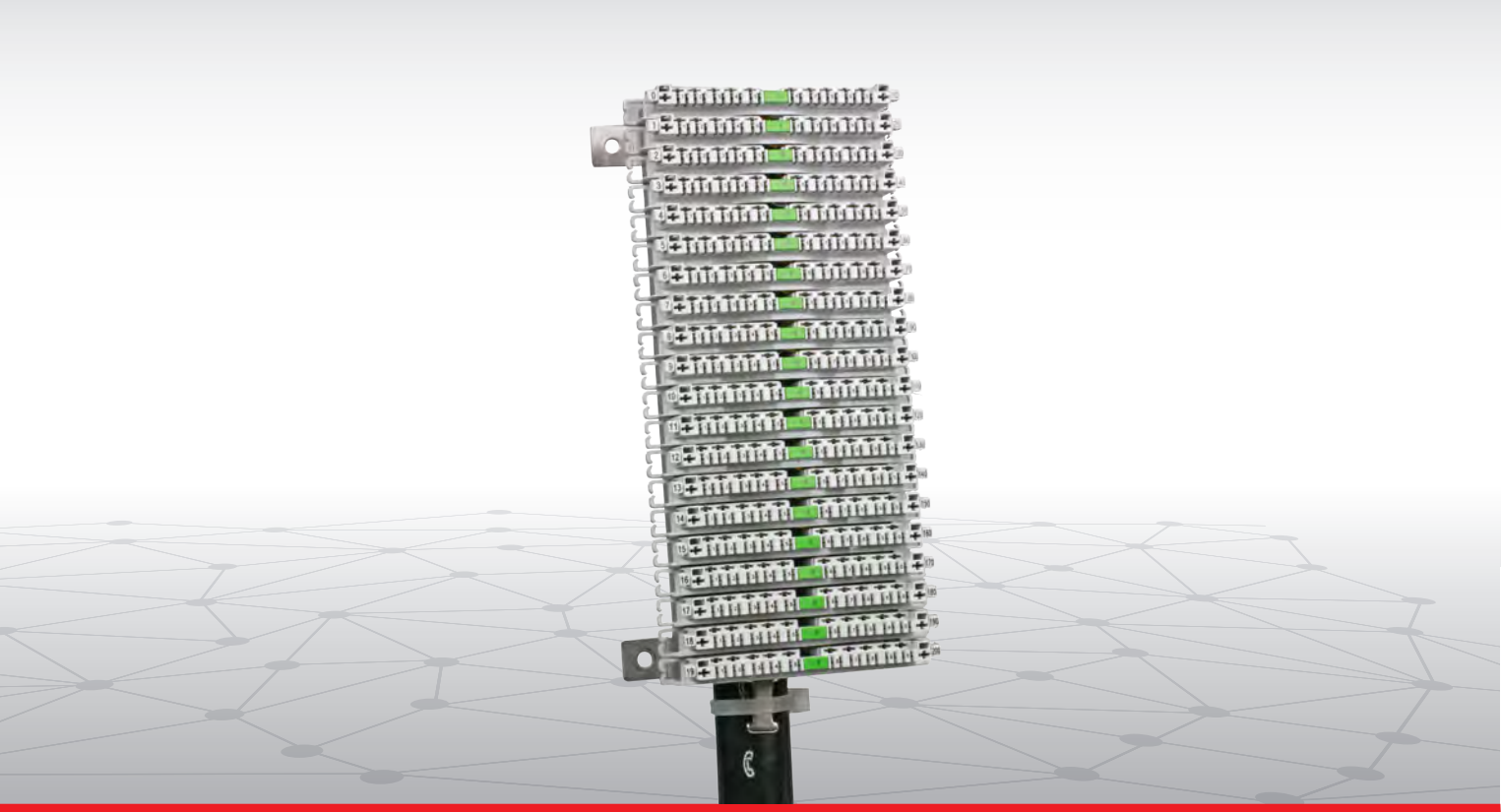
Approved by Deutsche Telekom AG

LSA-HD®
60 twisted pairs
(6 x 10 twisted pairs)



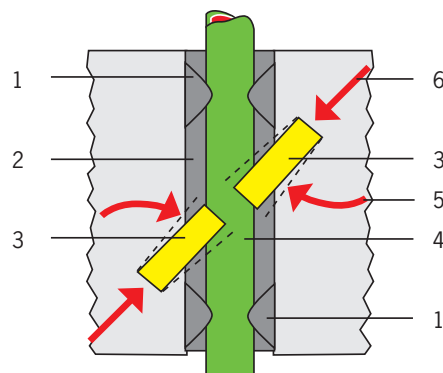
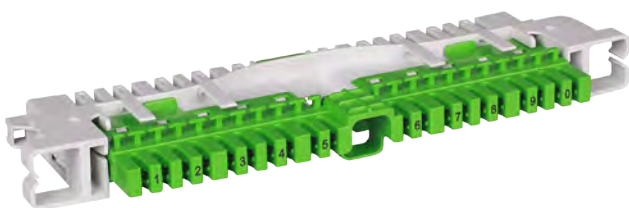
Series 2
60 twisted pairs
(6 x 10 twisted pairs)





LSA contact with 45° incline

The LSA contact with 45° incline was developed in 1978. It is synonymous with quality the world over, and has set standards internationally. Thanks to its high level of contact reliability, excellent transfer properties and exemplary ease of assembly in combination with the LSA insertion tool, not only has it proven itself over several decades and conquered the global market, it has also set a universal standard. The LSA contact with 45° incline is also used in all telecommunications and data technology series from CobiNet.



- 1 Plastic clamping fins
- 2 Contact slot
- 3 Contact jaws
- 4 Core
- 5 Contact's torsional forces
- 6 Contact's restoring forces

As part of our LSA-HD® product range, and building on the LSA contact with 45° incline, we have tailored the cable and jumper wire guide precisely to the requirements of modern communication networks, and are thereby offering the perfect solution in terms of space optimisation in telecommunication distributors, leading to a clear increase (of up to 100%) in the capacity of passive components with the same space requirements.

The LSA contact with 45° incline is also the key component of our LSA-HD® series, which has been tested by the renowned testing institute SGS and approved by **Deutsche Telekom AG** for use in the international industry leader's entire network.

Cable heads (CH)

CobiNet cable head CH 08 HD

- Telecommunications cable head for assembly in a cross-connection cabinet with vertical bay rails
- 10 or 20 LSA-HD® connection modules, without colour code
- Backmount frame for narrow bays (rail spacing 120 mm), incl. attachment material
- Plug number set
- Without colour code
- 1 or 2 hinged label holders
- Dust protection cap, deep (suitable for the use of overvoltage protection modules)



Item	Design	Item no.	Fig.
CH 08 HD for 100 twisted pairs	Flat frame for cross-connection cabinet KVz 82	1008 4010	
10 LSA-HD® connection modules	Deep frame for cross-connection cabinet KVz 09	1008 4510	
Hinged label holder			
135.5 mm installation height			
CH 08 HD for 200 twisted pairs	Flat frame for cross-connection cabinet KVz 82	1008 4020	1
20 LSA-HD® connection modules	Deep frame for cross-connection cabinet KVz 09	1008 4520	
2 hinged label holders			
271.0 mm installation height			
CH 08 HD for 100 twisted pairs	Flat frame for cross-connection cabinet KVz 82	1008 4012	
10 LSA-HD® disconnection modules	Deep frame for cross-connection cabinet KVz 09	1008 4512	
Hinged label holder			
135.5 mm installation height			
CH 08 HD for 200 twisted pairs	Flat frame for cross-connection cabinet KVz 82	1008 4022	
20 LSA-HD® disconnection modules	Deep frame for cross-connection cabinet KVz 09	1008 4522	
2 hinged label holders			
271.0 mm installation height			

Cable heads (CH), pre-assembled

CobiNet cable head CH 08 HD with assembled telecommunications cable

Modules	Twisted pairs	Item no.	Cable	Comments
10 con	100	On req.	Main	Cable length as per order
10 con	100	On req.	Cross-con	Cable length as per order
10 discon	100	On req.	Main	Cable length as per order
20 con	200	On req.	Main	Cable length as per order
20 con	200	On req.	Cross-con	Cable length as per order
20 discon	200	On req.	Main	Cable length as per order

CobiNet cable head CH 08 HD

with assembled system switch cable for DSLAM/MSAN

Modules	Twisted pairs	Item no.	Cable	Comments
20 discon	200	On req.	System cable	5x32 twisted pairs, switch cable
20 discon	200	On req.	System cable	6x32 twisted pairs, switch cable
10 discon	100	On req.	System cable	Assembly as per customer specifications
20 discon	200	On req.	System cable	Assembly as per customer specifications



Distribution racks

CobiNet distribution rack 19" (width: 482.6 mm) 3 RU

with assembled system switch cable for DSLAM/MSAN

Modules	Twisted pairs	Item no.	Cable	Comments
10 discon	100	On req.	System cable	2x32 twisted pairs, switch cable
10 discon	100	On req.	System cable	Assembly as per customer specifications
20 discon	200	On req.	System cable	Assembly as per customer specifications
30 discon	300	On req.	System cable	Assembly as per customer specifications



Installation frame for telecommunications bay

CobiNet telecommunications bay 19" (width: 482.6 mm)/ETSI 4 RU

- 4 RU
- For the horizontal accommodation of cable heads
- Narrow horizontal bay (rail spacing 120 mm)

Item	Item no.	Fig.
Installation frame 19" (width 482.6 mm)	1008 4905	
Installation frame ETSI	1008 4906	1



Figure shows rear view

1

Distribution racks 19"**CobiNet distribution rack 19" (width: 482.6 mm)**

Distributors with 1 to 4 RU with integrated jumper wire management are available for installation in 19" frames (width: 482.6 mm). With large numbers of jumper wires, there is the option of using a front panel with horizontal jumper wire guides.

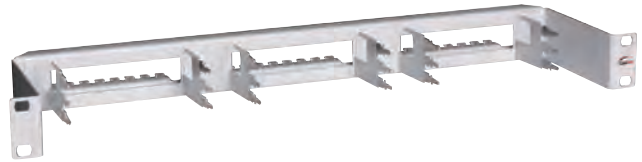


Distribution racks 19"/jumper wire guide panels 19"

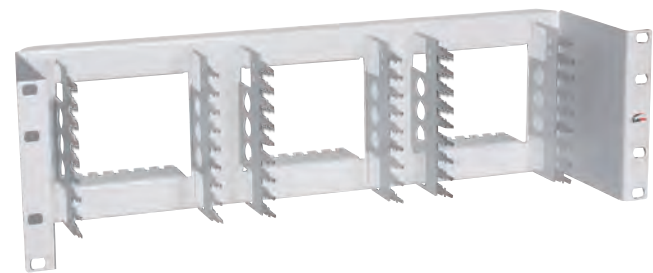
CobiNet distribution rack 19" (width: 482.6 mm)

- For the accommodation of LSA-HD® modules
- Sheath clamp for protective conductor connection
- Earth connection with M6 nut
- Cable strain relief at the rear
- Integrated jumper wire management
- RAL 7035 (light grey)

Item	Item no.	Fig.
Distribution rack LSA-HD® 1 RU, 90 twisted pairs For 3x 3 LSA-HD® modules	1008 5001	1
Distribution rack LSA-HD® 3 RU, 270 twisted pairs For 3x 9 LSA-HD® modules	1008 5003	2
Distribution rack LSA-HD® 3 RU, 300 twisted pairs For 3x 10 LSA-HD® modules, without integrated jumper wire management	1008 5003/30	



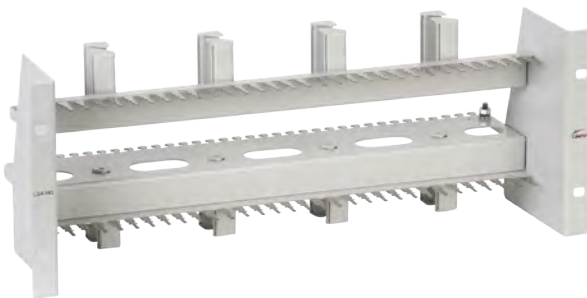
1



2

CobiNet distribution rack LSA-HD® 19" (width: 482.6 mm) 4 RU

- For the accommodation of LSA-HD® modules
- Sheath clamp for protective conductor connection
- Earth connection with M6 nut
- Cable strain relief at the rear
- Integrated jumper wire management
- RAL 7035 (light grey)



3

Item	Item no.	Fig.
Distribution rack LSA-HD® 4 RU, 320 twisted pairs For 32 LSA-HD® modules, vertical assembly	1008 5004	3

CobiNet jumper wire guide panel 19" (width: 482.6 mm) 1 RU

- For jumper wire guidance in racks
- RAL 7035 (light grey)



4

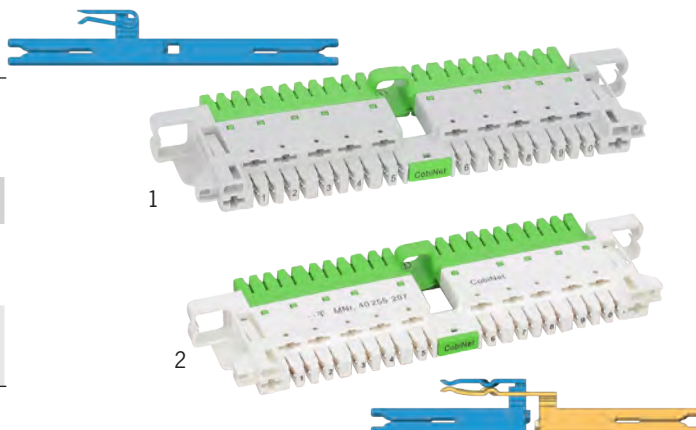
Item	Item no.	Fig.
For LSA-HD® distribution rack 19" (width: 482.6 mm)	1008 5000	4

LSA-HD® modules

CobiNet LSA-HD® module for 10 twisted pairs

- Without colour code
- Printed: 1...0

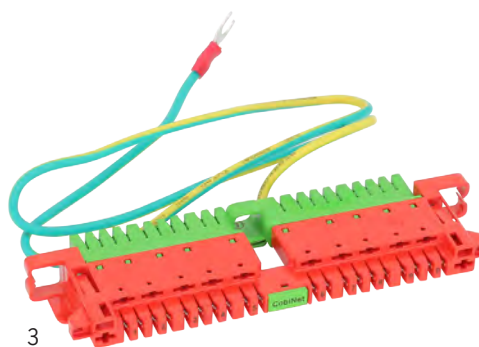
Item	Item no.	Fig.
LSA-HD® connection module for 10 twisted pairs	1008 1010	1
LSA-HD® disconnection module for 10 twisted pairs	1008 1110	2



LSA-HD® earth module

- For connecting earth drain wires to the earth connection, 39-pin

Item	Item no.	Fig.
LSA-HD® earth module	1008 1220	3



CobiNet overvoltage protection magazine LSA-HD® 10 twisted pairs

- Overvoltage protection magazine for LSA-HD® connection and disconnection modules
- Coarse protection
- Hinged pluggable label holder (see item no. 1008 3500)

Item	Item no.	Fig.
Fitted with 10 3-pole arresters 6x8, 230 V, 5 kA, fail-safe	1008 2052	1



LSA-HD® accessories

CobiNet LSA insertion tool with sensor

- For the soldering, screwing and stripping-free insertion and simultaneous cutting to length of cable cores on LSA modules
- With fold-out extraction hook and release blade
- For conductor diameters of 0.35...0.9 mm and core diameters of 0.7...2.6 mm
- With a sensor for scanning the core end position
- Scissors can be deactivated for looping cores through via multiple contacts
- Scissors have a long service life of up to 200,000 cuts

Item	Item no.	Fig.
LSA insertion tool with sensor	1008 3101	4

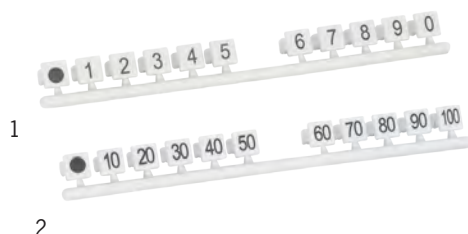


4

See page 36 for details

CobiNet plug number set

- For labelling LSA-HD® modules
- Colour: Grey



Item	Item no.	Fig.
Plug number set 1...0	3030 051	1
Plug number set 10...19	3030 180	
Plug number set 10...100	3030 052	2
Plug number set 110...200	3030 181	
Plug number set 1...10	3030 057	
Plug number set 11...20	3030 058	
Plug number set 21...30	3030 059	
Plug number set 31...40	3030 060	
Plug number set 41...50	3030 061	
Plug number set 51...60	3030 062	

CobiNet module label holder HD, 10 twisted pairs

- For attachment onto free frame spaces



Item	Item no.	Fig.
For labelling on both sides, with unprinted paper label and transparent cover	1008 3502	3
For labelling on one side, with printed paper label "CH FSZ slot" and transparent cover	1008 3503	
For labelling on one side, with printed paper label "CH cable twisted pairs" and transparent cover	1008 3504	

CobiNet hinged label holder HD, 10 twisted pairs

- For attachment onto LSA-HD® modules and overvoltage protection magazines



Item	Item no.	Fig.
For labelling on both sides, with unprinted paper labels and transparent covers	1008 3500	
For labelling on both sides, with printed paper labels "CH" and transparent covers	1008 3501	4

LSA-HD® accessories

CobiNet disconnection plug LSA-HD® 1 twisted pair

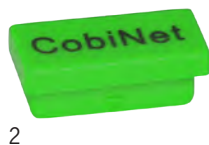
- For separating a twisted pair on LSA-HD® disconnection modules



Item	Item no.	Fig.
Disconnection plug LSA-HD®, grey, 1 twisted pair	1008 3400	
Disconnection plug LSA-HD®, yellow, 1 twisted pair	1008 3401	
Disconnection plug LSA-HD®, green, 1 twisted pair	1008 3402	
Disconnection plug LSA-HD®, blue, 1 twisted pair	1008 3403	
Disconnection plug LSA-HD®, red, 1 twisted pair	1008 3405	1
Disconnection plug LSA-HD®, brown, 1 twisted pair	1008 3406	
Disconnection plug LSA-HD®, black, 1 twisted pair	1008 3408	
Disconnection plug LSA-HD®, white, 1 twisted pair	1008 3409	

CobiNet coding clip LSA-HD®

- For labelling different services on LSA-HD® modules
- Replaces the green standard module clip



Item	Item no.	Fig.
Coding clip LSA-HD®, grey	1008 3540	
Coding clip LSA-HD®, yellow	1008 3541	
Coding clip LSA-HD®, green	1008 3542	2
Coding clip LSA-HD®, blue	1008 3543	
Coding clip LSA-HD®, red	1008 3545	3
Coding clip LSA-HD®, brown	1008 3546	
Coding clip LSA-HD®, orange	1008 3547	
Coding clip LSA-HD®, white	1008 3549	

CobiNet marking cap LSA-HD® 1 twisted pair

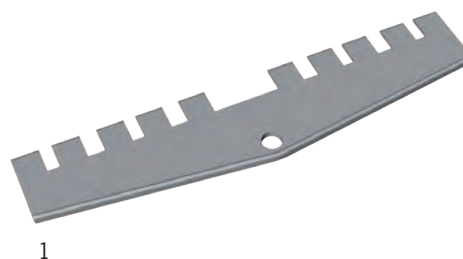
- For labelling important twisted pairs on LSA-HD® modules



Item	Item no.	Fig.
Marking cap LSA-HD®, grey, 1 twisted pair	1008 3510	
Marking cap LSA-HD®, yellow, 1 twisted pair	1008 3511	
Marking cap LSA-HD®, green, 1 twisted pair	1008 3512	
Marking cap LSA-HD®, blue, 1 twisted pair	1008 3513	
Marking cap LSA-HD®, red, 1 twisted pair	1008 3515	4
Marking cap LSA-HD®, brown, 1 twisted pair	1008 3516	
Marking cap LSA-HD®, black, 1 twisted pair	1008 3518	
Marking cap LSA-HD®, white, 1 twisted pair	1008 3519	

CobiNet disconnection plug LSA-HD® 10 twisted pairs, grey

- For separating 10 twisted pairs on LSA-HD® disconnection modules



Item	Item no.	Fig.
Disconnection plug LSA-HD®, grey, 10 twisted pairs	1008 3410	1

CobiNet changeover adapter LSA-HD® 1 twisted pair

- For the interruption-free changeover of a twisted pair on LSA-HD® connection and disconnection modules

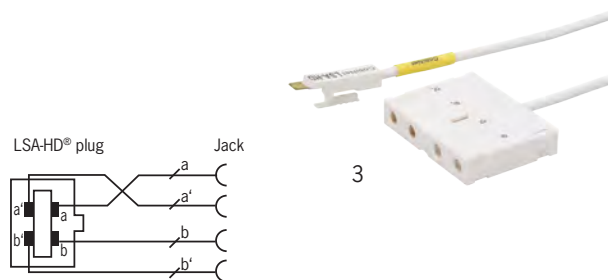


6

Item	Item no.	Fig.
Changeover adapter LSA-HD®, 1 twisted pair	1008 3300	6

CobiNet test cord LSA-HD®, 4-pin, LSA-HD® 4x jack (4 mm)

- For LSA-HD® disconnection modules
- Fitted with LSA-HD® plug and 4 jacks (4 mm) for banana plugs
- Separates a wire path

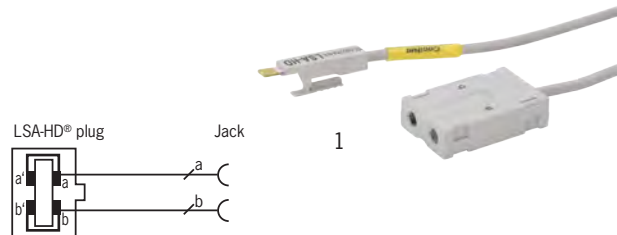


3

Item	Item no.	Fig.
0.2 m	1008 3214/0.2.1	3
0.5 m	1008 3214/0.5.1	
1.0 m	1008 3214/1.0.1	
2.0 m	1008 3214/2.0.1	
3.0 m	1008 3214/3.0.1	

CobiNet test cord LSA-HD®, 2-pin, LSA-HD® 2x jack (4 mm)

- For LSA-HD® connection and disconnection modules
- Fitted with LSA-HD® plug and 2 jacks (4 mm) for banana plugs
- For parallel connection to a twisted pair

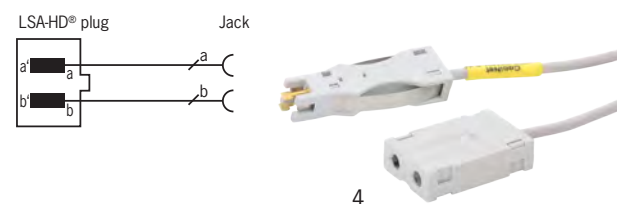


1

Item	Item no.	Fig.
0.2 m	1008 3212/0.2.1	1
0.5 m	1008 3212/0.5.1	
1.0 m	1008 3212/1.0.1	
2.0 m	1008 3212/2.0.1	
3.0 m	1008 3212/3.0.1	

CobiNet universal test cord 7052, 2-pin

- Fitted with a plug for tapping almost all LSA contacts and 2 jacks (4 mm) for banana plugs
- 2-pin tapping of the LSA contact using 2 spring contacts in the plug
- For parallel connection to a twisted pair



4



Sample application

Item	Item no.	Fig.
0.2 m	3020 003/0.2	4

i Additional lengths on request

**i a/b = cable side
a'/b' = jumper side**

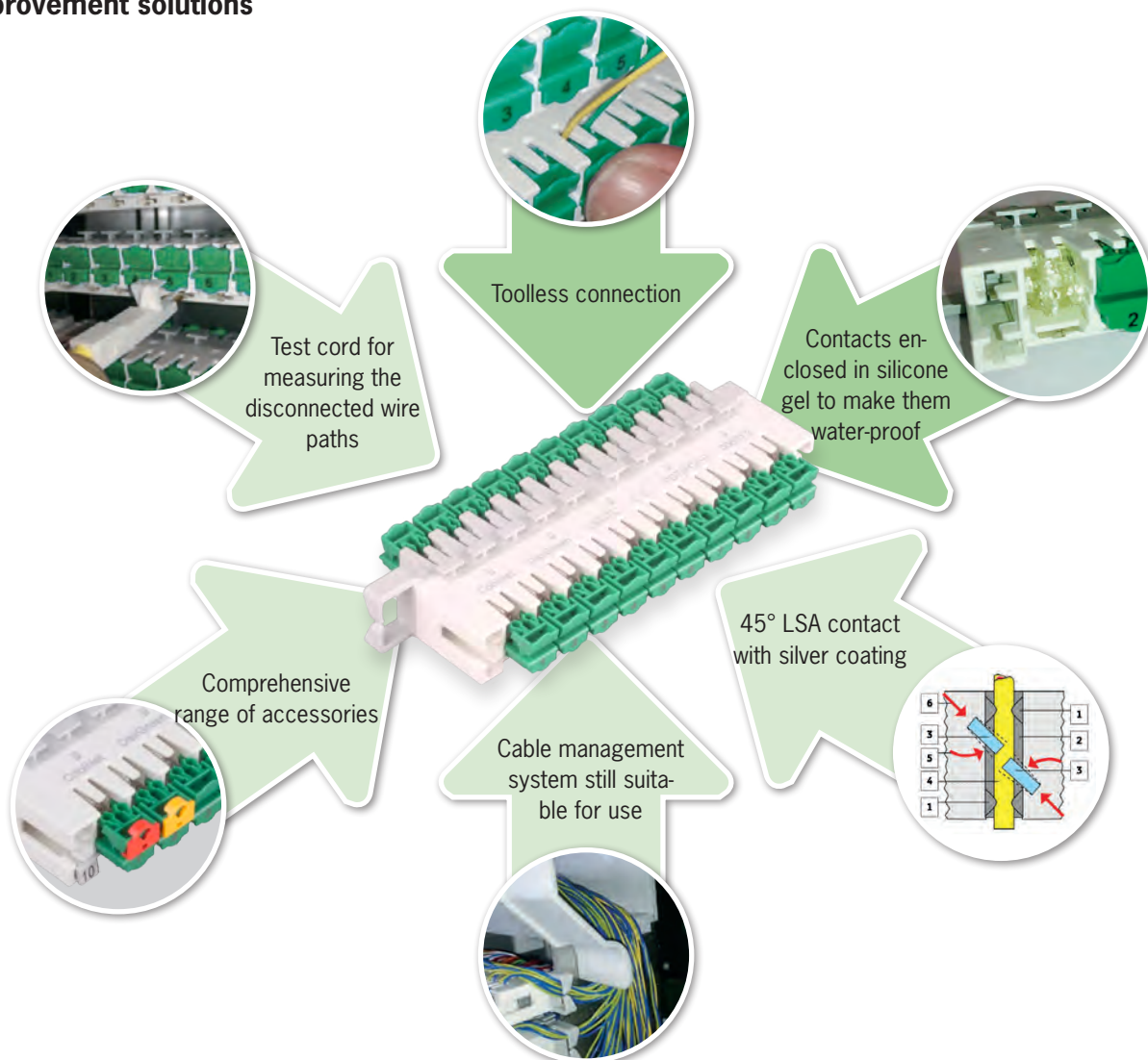
LSA-TL/CH 14 TL

Reasons to purchase a new 10-twisted-pair module – common problems with cross-connection cabinets

The telecommunications module is one of the most important components in the provision of all types of telecommunication services, including broadband, in all access networks.

The first step towards improving the associated technology involves identifying the basic factors behind negative impacts on functional reliability.

Improvement solutions

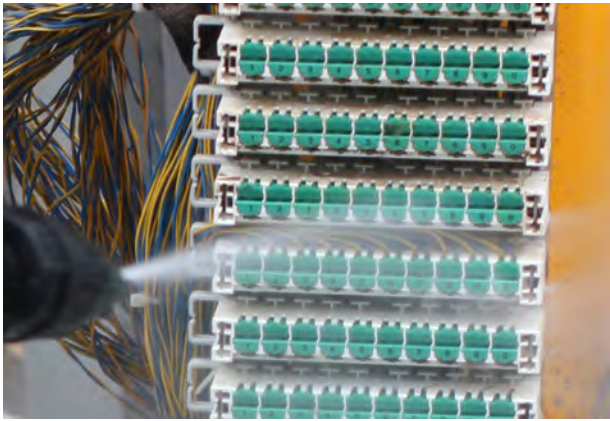




LSA-TL/CH 14 TL

- For installation in a cross-connection cabinet with 120 mm bay rails
- CH 14 TL 100 twisted pairs with
- 10x LSA TL disconnection module
- Green slider
- Module label holder
- Backmount frame
- Un-assembled

Item	Item no.	Fig.
LSA-TL/CH 14 TL	1014 4012	2



Sample application (water-proof)

Product overview

CobiNet LSA-TL disconnection modules, 10 twisted pairs

- Printed: 1...0
- Toolless connection
- Water-proof connection
- Fully compatible with series 2 backmount frame

Item	Item no.	Fig.
LSA-TL disconnection module for 10 twisted pairs Green slider, jumpering on both sides	1014 1110	1



1

CobiNet LSA-TL overvoltage protection magazine

- Overvoltage protection magazine for LSA-TL modules
- For 10 twisted pairs, fitted with 10x 3-pole arresters, 230 V, 5 kA, fail-safe
- For connection at the front

Item	Item no.	Fig.
LSA-TL overvoltage protection magazine	1014 2052	2



2

CobiNet LSA-TL assembly adapter

- Assembly aid for attachment onto the backmount frame
- Quicker pre-sorting thanks to integrated core management
- Convenient connection as assembly supports can be snapped in individually
- Sufficient core reserve guaranteed automatically

Item	Item no.	Fig.
LSA-TL assembly adapter	1014 3100	3



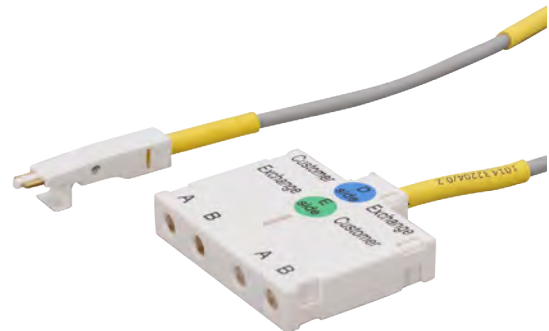
3

CobiNet LSA-TL test cord

- 4-pin
- Fitted with a test plug, for separating the wire paths, and with 4 jacks (4 mm) for banana plugs
- Length: 0.2 m

Item	Item no.	Fig.
LSA-TL test cord	1014 32204/0.2	3

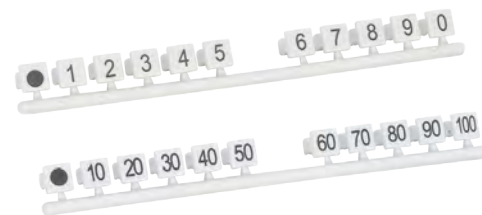
3

**CobiNet plug number set**

- For labelling LSA-TL modules
- Colour: Grey

Item	Item no.	Fig.
Plug number set 1...0	3030 051	5
Plug number set 10...100	3030 052	6
Plug number set 1...10	3030 057	
Plug number set 11...20	3030 058	
Plug number set 21...30	3030 059	
Plug number set 31...40	3030 060	
Plug number set 41...50	3030 061	
Plug number set 51...60	3030 062	
Plug number set 10...19	3030 180	
Plug number set 110...200	3030 181	

5



6

CobiNet LSA-TL marking cap, 1 twisted pair

- For labelling important twisted pairs on TL modules
- 1 set: 50 pcs

4

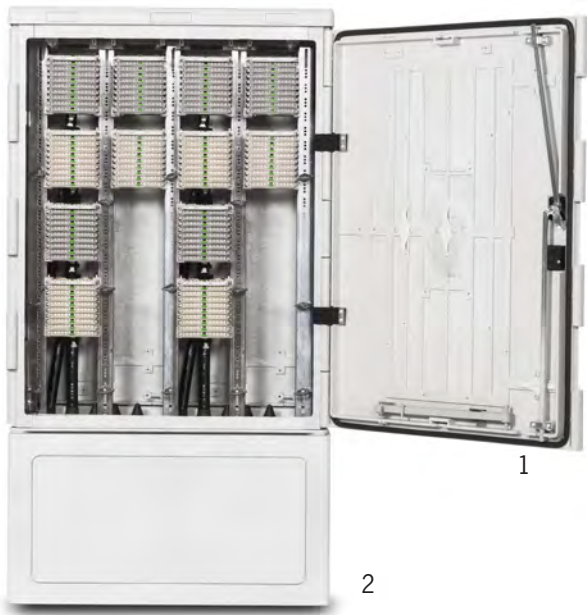


Sample application

Item	Item no.	Fig.
LSA-TL marking cap, yellow	1014 35211	4
LSA-TL marking cap, red	1014 35215	

Cross-connection cabinets

Bay construction

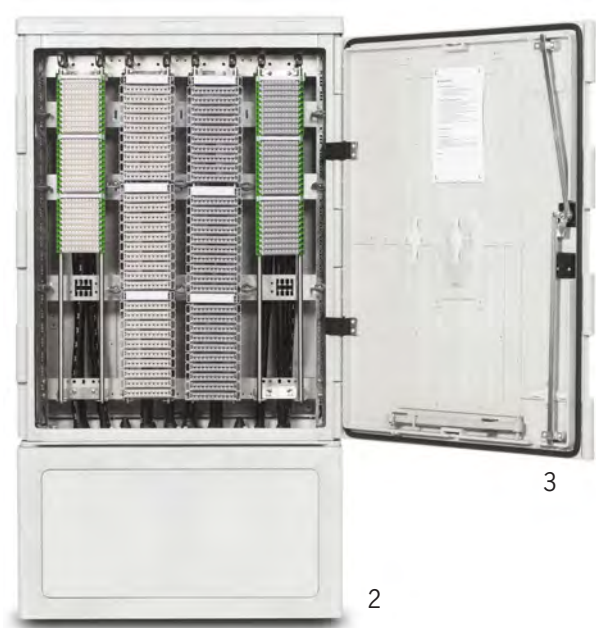


Cross-connection cabinet KVz 82, 1200 twisted pairs with bay rails

- Frame: 4-row assembly frame for cable heads, with earthing point for round conductors (Ø 8...10 mm) and wire guide
- Accommodation capacity: 1200 twisted pairs (depending on the number of jumper wires)
- Recommended configuration: CH 08 HD flat frame, CH 14 TL
- Dimensions (outside/inside): W x H x D in mm: 754 x 998 x 310 / 670 x 877 x 261
- Door: Locking mechanism: Swivelling lever single locking system (three-point locking mechanism) for profile half-cylinder, with door holder (opening angle > 120°) and switching tag clips
- Floor: Closed with 7x 2-way rubber bushing (Ø 9.5...42 mm)
- Housing: Glass-fibre-reinforced polycarbonate, no condensation build-up, surface profiling to prevent bill-posting
- Protection class: IP54
- Colour: RAL 7038 (agate grey)

Item	Item no.	Fig.
Cross-connection cabinet KVz 82, 1200 twisted pairs with bay rails	59.1723.00.00	1
Base 84 standard	59.2127.00.00	2

Profile rod construction



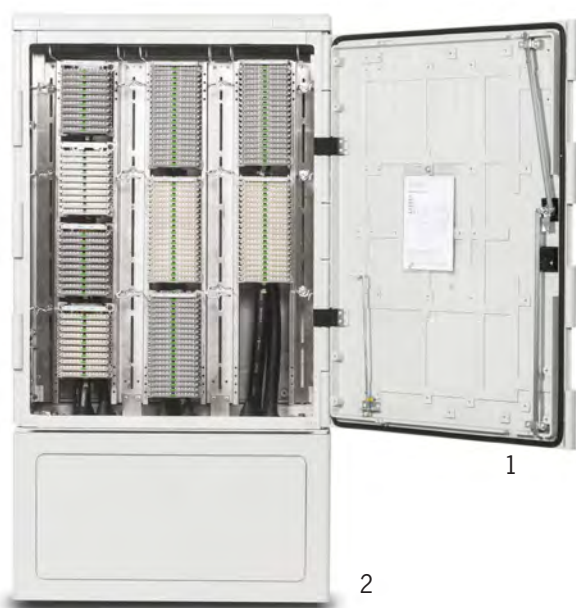
Cross-connection cabinet KVz 82, 1200 twisted pairs with profile rod frame

- Frame: 4-row profile rod frame for LSA-HD® P-RS profile rod modules, with earthing point for round conductors (Ø 8...10 mm) and wire guide
- Accommodation capacity: 1200 twisted pairs (depending on the number of jumper wires)
- Recommended configuration: OP CH 15 RS (individual configuration with profile rod modules)
- Dimensions (outside/inside): W x H x D in mm: 754 x 998 x 310 / 670 x 877 x 261
- Door: Locking mechanism: Swivelling lever single locking system (three-point locking mechanism) for profile half-cylinder, with door holder (opening angle > 120°) and switching tag clips
- Floor: Closed with 7x 2-way rubber bushing (Ø 9.5...42 mm)
- Housing: Glass-fibre-reinforced polycarbonate, no condensation build-up, surface profiling to prevent bill-posting
- Protection class: IP54
- Colour: RAL 7038 (agate grey)

Item	Item no.	Fig.
Cross-connection cabinet KVz 82, 1200 twisted pairs with profile rod frame	59.2469.00.00	3
Base 84 standard	59.2127.00.00	2

Cross-connection cabinets

Bay construction



1

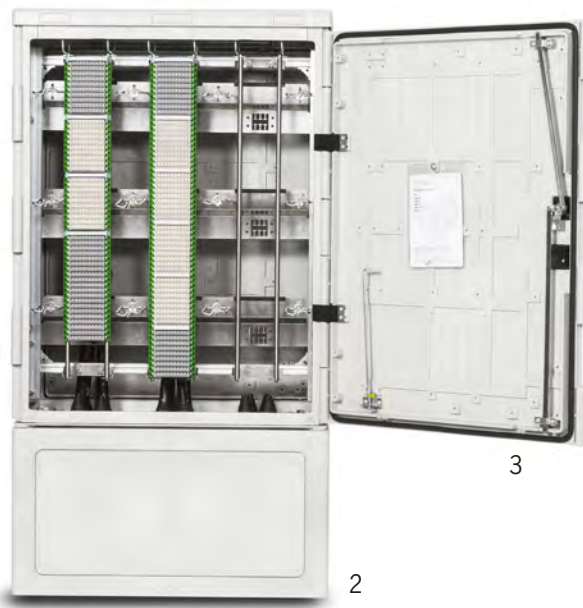
2

Cross-connection cabinet KVz 09, 1800 twisted pairs with bay rails

- Frame: 3-row assembly frame for cable heads, with earthing point for round conductors (Ø 8...10 mm) and wire guide
- Accommodation capacity: 1800 twisted pairs (depending on the number of jumper wires)
- Recommended configuration: CH 08 HD deep frame (1800 twisted pairs), CH 14 TL (900 twisted pairs)
- Dimensions (outside/inside): W x H x D in mm: 754 x 998 x 400 / 670 x 877 x 351
- Door: Locking mechanism: Swivelling lever single locking system (three-point locking mechanism) for profile half-cylinder, with door holder (opening angle > 120°) and switching tag clips
- Floor: Closed with 7x 2-way rubber bushing (Ø 9.5...42 mm)
- Housing: Glass-fibre-reinforced polycarbonate, no condensation build-up, surface profiling to prevent bill-posting
- Protection class: IP54
- Colour: RAL 7038 (agate grey)

Item	Item no.	Fig.
Cross-connection cabinet KVz 09, 1800 twisted pairs with bay rails	59.2478.00.00	1
Base UNI 8/400	55.4002.00.00	2

Profile rod construction



3

2

Cross-connection cabinet KVz 09, 1800 twisted pairs with profile rod frame

- Frame: 3-row profile rod frame for LSA-HD® P-RS profile rod modules, with earthing point for round conductors (Ø 8...10 mm) and wire guide
- Accommodation capacity: 1800 twisted pairs (depending on the number of jumper wires)
- Recommended configuration: OP CH 15 RS (individual configuration with profile rod modules)
- Dimensions (outside/inside): W x H x D in mm: 754 x 998 x 400 / 670 x 877 x 351
- Door: Locking mechanism: Swivelling lever single locking system (three-point locking mechanism) for profile half-cylinder, with door holder (opening angle > 120°) and switching tag clips
- Floor: Closed with 7x 2-way rubber bushing (Ø 9.5...42 mm)
- Housing: Glass-fibre-reinforced polycarbonate, no condensation build-up, surface profiling to prevent bill-posting
- Protection class: IP54
- Colour: RAL 7038 (agate grey)

Item	Item no.	Fig.
Cross-connection cabinet KVz 09, 1800 twisted pairs with profile rod frame	59.2470.00.00	3
Base UNI 8/400	55.4002.00.00	2

Cross-connection cabinets

Cross-connection cabinets (KVz)

CobiNet cross-connection cabinet (KVz) series UNI, for customised expansion

- Uniform construction: Each series available in 3 heights and 2 depths
- Housing can be removed from above without interrupting operation
- Doors with 3-point locking mechanism
- Locking mechanism with swivelling lever for profile cylinder
- Stainless steel frame
- Double frame
- Aluminium profile frame
- Base plate open or closed
- Door for back wall can be used
- Single or double locking
- IP44 or IP54 as per IEC 529
- Matching base available; see Fig. 2 (upper base section 400 mm above ground level)

Series/type	Width	Height	Depth	Item no.	Fig.
UNI 4	442	698	310	on request	1
		848	400		
		998			
UNI 8	754	698	310	on request	
		848	400		
		998			
UNI 11	1131	698	310	on request	
		848	400		
		998			
UNI 15	1511	698	310	on request	
		848	400		
		998			



1

i 19"/ ETSI frames, telecommunications bays (120 mm) and profile rod modules for cable heads as well as assembly plates and various accessories are also available for the base on request.

i Additional designs on request



2

Cross-connection cabinets

Multifunctional enclosure (MFG)

CobiNet multifunctional enclosure (MFG), series Cab, for customised expansion

- Uniform construction: Each series with uniform design and depth (500 mm)
- Housing can be removed without interrupting operation
- Doors with 3-point locking mechanism
- Locking mechanism with swivelling lever for profile cylinder
- Stainless steel frame
- Double frame
- Aluminium profile frame
- Base plate open or closed
- Door for back wall can be used
- Single or double locking
- IP44 or IP54 as per IEC 529
- Area separation possible using bulkhead grid
- Matching base available; see Fig. 2 (upper base section 400 mm above ground level)

Series/type	Width	Height	Depth	Item no.	Fig.
Cab 8	1000	1600	500	on request	
Cab 12	1400	1600	500	on request	
Cab 15	1700	1600 1450	500	on request	
Cab 18	2000	1600	500	on request	1

i Additional designs on request



i 19"/ ETSI frames, telecommunications bays (120 mm) and profile rod modules for cable heads as well as assembly plates and various accessories are also available for the base on request.

Switch wire

CobiNet YV switch wire

- For connection inside distributors and for voice and signal connections
- Tin-plated copper conductor
- PVC core insulation



i Additional designs on request

Item	Item no. 100 m	Item no. 250 m	Item no. 500 m
Type 2x 0.5/0.9 mm, colour: Red/blue	7025 112	7025 212	7025 512
Type 2x 0.5/0.9 mm, colour: White/green	7025 113	7025 213	7025 513
Type 2x 0.5/0.9 mm, colour: White/yellow	7025 115	7025 215	7025 515
Type 2x 0.5/0.9 mm, colour: White/blue	7025 121	7025 221	7025 521
Type 2x 0.5/0.9 mm, colour: White/red	7025 123	7025 223	7025 523
Type 2x 0.5/0.9 mm, colour: White/black	7025 125	7025 225	7025 525
Type 2x 0.5/0.9 mm, colour: Red/black	7025 150	7025 250	7025 550
Type 2x 0.5/0.9 mm, colour: White/brown	7025 161	7025 261	7025 561

Item	Item no. 100 m	Item no. 250 m	Item no. 500 m
Type 2x 0.6/1.1 mm, colour: Red/blue	7026 112	7026 212	7026 512
Type 2x 0.6/1.1 mm, colour: White/green	7026 113	7026 213	7026 513
Type 2x 0.6/1.1 mm, colour: White/yellow	7026 115	7026 215	7026 515
Type 2x 0.6/1.1 mm, colour: White/blue	7026 121	7026 221	7026 521
Type 2x 0.6/1.1 mm, colour: White/red	7026 123	7026 223	7026 523
Type 2x 0.6/1.1 mm, colour: White/black	7026 125	7026 225	7026 525
Type 2x 0.6/1.1 mm, colour: Red/black	7026 150	7026 250	7026 550
Type 2x 0.6/1.1 mm, colour: White/brown	7026 161	7026 261	7026 561

Item	Item no. 100 m	Item no. 250 m	Item no. 500 m
Type 2x 0.8/1.4 mm, colour: Red/blue	7028 112	7028 212	7028 512
Type 2x 0.8/1.4 mm, colour: White/green	7028 113	7028 213	7028 513
Type 2x 0.8/1.4 mm, colour: White/yellow	7028 115	7028 215	7028 515
Type 2x 0.8/1.4 mm, colour: White/blue	7028 121	7028 221	7028 521
Type 2x 0.8/1.4 mm, colour: White/red	7028 123	7028 223	7028 523
Type 2x 0.8/1.4 mm, colour: White/black	7028 125	7028 225	7028 525
Type 2x 0.8/1.4 mm, colour: Red/black	7028 150	7028 250	7028 550
Type 2x 0.8/1.4 mm, colour: White/brown	7028 161	7028 261	7028 561

CobiNet shielded switch wire, grey

- For the transmission of signals up to 20 MHz in distributors or digital systems
- 2-core with shield wire
- Wire diameter: 0.5 mm
- Model: 02YS(ST)Y 1 x 2 x 0.5/1.0
- Copper index: 5.9

Item	Item no.	Fig.
Shielded switch wire, grey Ring: 250 m	5020 064/L.1	1

**CobiNet single-core connector**

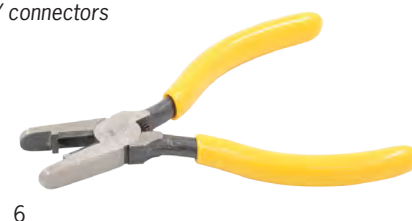
- Grease-filled to protect against moisture
- Max. conductor cross-section: 0.4-0.9 mm max.
- Outside diameter: 2.08 mm
- For the connection of plastic-insulated cores
- No need to strip back the core insulation



Item	Item no.	Fig.
Single-core connector UY2 for 2 cores, colour: Yellow	7400 010	4
Single-core connector UR2 for 3 cores, colour: Red	7400 210	5
Core connector EVK 1, grey, unfilled, 0.35...0.6 mm	7400 015	

CobiNet pliers E-9YD

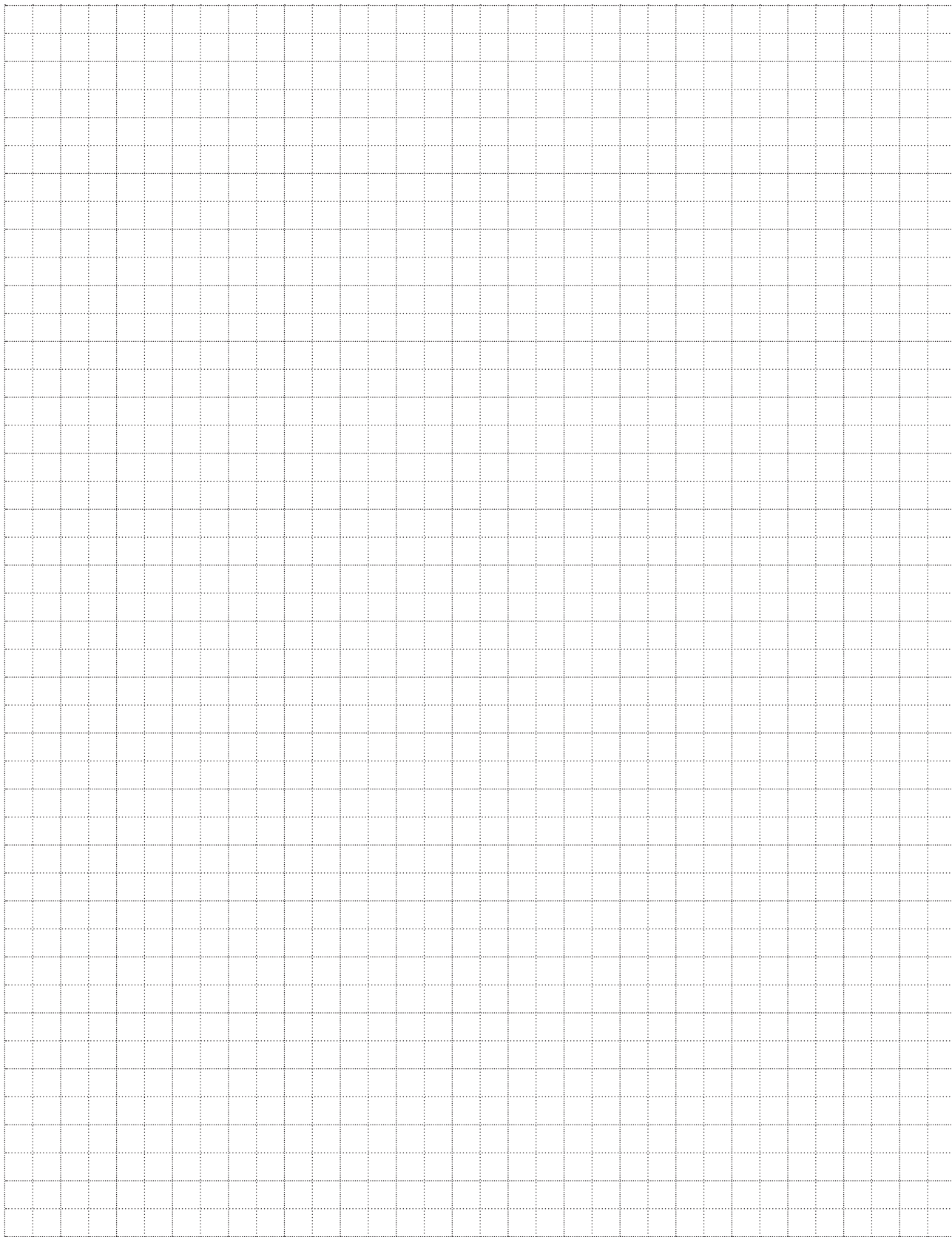
- For single-core connectors
- With integrated wire cutters
- For UR2, UR2-D, UR, UY-2, UY2-D, UP2, UP3, 211, UY connectors



Item	Item no.	Fig.
Hand crimping tool	7400 009	6

Notes

Make plans with us!



Sleeves

	Page
Telecommunications heat-shrink sleeve FVAM	312
Branching kit for FVAM	312
Universal sleeves UCA	313
Universal sleeve UCAO	313
Accessories	314
Single-core connector	314
Hand crimping tool E-9YD for single-core connectors	314
Shield connection cable	314

Heat-shrink sleeves

Telecommunications heat-shrink sleeve FVAM

- For pass-through connections and branched connections of filled and unfilled telecommunications and signal cables without any compressed air monitoring
- There is a layer of hot-melt adhesive on the inside of the sleeve, which creates a secure and water-proof connection to plastic and metal cable sheaths
- Incl. all individual parts that are required to set up the sleeve



Item	Cable diameter (min.)	Cable stripping dimension (max.)	Suitable branching kit (see below)	Item no.	Fig.
FVAM 43/8-130 Capacity: Ø 0.4 mm - 30 twisted pairs, Ø 0.6/0.8 mm - 10 twisted pairs Max. diameter over splice protection: 43 mm	8 mm	130 mm	A	7400 001	1
FVAM 75/15-160 Capacity: Ø 0.4 mm - 100 twisted pairs, Ø 0.6 mm - 75 twisted pairs, Ø 0.8 mm - 50 twisted pairs Max. diameter over splice protection: 75 mm	15 mm	160 mm	A	7400 002	
FVAM 93/25-190 Capacity: Ø 0.4 mm - 150 twisted pairs, Ø 0.6 mm - 100 twisted pairs, Ø 0.8 mm - 50 twisted pairs Max. diameter over splice protection: 93 mm	25 mm	190 mm	B	7400 003	
FVAM 122/28-190 Capacity: Ø 0.4 mm - 400 twisted pairs, Ø 0.6 mm - 250 twisted pairs, Ø 0.8 mm - 200 twisted pairs Max. diameter over splice protection: 122 mm	28 mm	190 mm	B	7400 004	
FVAM 122/28-280 Capacity: Ø 0.4 mm - 400 twisted pairs, Ø 0.6 mm - 250 twisted pairs, Ø 0.8 mm - 250 twisted pairs Max. diameter over splice protection: 122 mm	28 mm	280 mm	B	7400 005	
FVAM 137/34-430 Capacity: Ø 0.4 mm - 800 twisted pairs, Ø 0.6 mm - 600 twisted pairs, Ø 0.8 mm - 300 twisted pairs Max. diameter over splice protection: 137 mm	34 mm	430 mm	C	7400 006	

Branching kits

Branching kit for FVAM

- One branching kit is required for each branching cable



Item	Item no.	Fig.
Branching kit A (small) for FVAM	7040 053	2
Branching kit B (medium) for FVAM	7040 056	
Branching kit C (large) for FVAM	7040 057	

Universal sleeve UCA

- For pass-through connections and branched connections of filled and unfilled telecommunications and signal cables without any compressed air monitoring
- Half-shell sleeve with permanently elastic seal
- Access without special tools as often as required
- Closure via stainless steel clips
- Incl. all individual parts that are required to set up the sleeve



1

Item	Item no.	Fig.
UCA 3-6 with shield transmission Capacity: Ø 0.4 mm - 70 twisted pairs, Ø 0.6 mm - 30 twisted pairs, Ø 0.8 mm - 20 twisted pairs Cable diameter: 4x max. 18 mm Dimensions (W x H x D): 308 x 124 x 88 mm	7040 023	1
UCA 3-6 without shield transmission Capacity: Ø 0.4 mm - 70 twisted pairs, Ø 0.6 mm - 30 twisted pairs, Ø 0.8 mm - 20 twisted pairs Cable diameter: 4x max. 18 mm Dimensions (W x H x D): 308 x 124 x 88 mm	7040 024	
UCA 4-9 with shield transmission Capacity: Ø 0.4 mm - 200 twisted pairs, Ø 0.6 mm - 100 twisted pairs, Ø 0.8 mm - 50 twisted pairs Cable diameter: 4x max. 28 mm Dimensions (W x H x D): 378 x 160 x 118 mm	7040 025	
UCA 4-9 without shield transmission Capacity: Ø 0.4 mm - 200 twisted pairs, Ø 0.6 mm - 100 twisted pairs, Ø 0.8 mm - 50 twisted pairs Cable diameter: 4x max. 28 mm Dimensions (W x H x D): 378 x 160 x 118 mm	7040 026	

Universal sleeve UCAO

- For pass-through connections and branched connections of fibre-optic cables
- Half-shell sleeve with permanently elastic seal
- Access without special tools as often as required
- Closure via stainless steel clips
- Incl. all individual parts that are required to set up the sleeve, without splice cassettes



2

Item	Item no.	Fig.
UCAO with shield transmission Capacity: Max. 5 splice cassettes Cable diameter: 4x max. 28 mm Dimensions (W x H x D): 378 x 160 x 118 mm	7040 041	2
UCAO without shield transmission Capacity: Max. 5 splice cassettes Cable diameter: 4x max. 28 mm Dimensions (W x H x D): 378 x 160 x 118 mm	7040 042	

CobiNet single-core connector

- Grease-filled to protect against moisture
 - Max. conductor cross-section: 0.4-0.9 mm max.
 - Outside diameter: 2.08 mm
 - For the connection of plastic-insulated cores
 - No need to strip back the core insulation
- 

Item	Item no.	Fig.
Single-core connector UY2 for 2 cores, colour: Yellow	7400 010	2
Single-core connector UR2 for 3 cores, colour: Red	7400 210	3
Core connector EVK 1, grey, unfilled, 0.35...0.6 mm	7400 015	

CobiNet hand crimping tool E-9YD for single-core connectors

- For single-core connectors with integrated wire cutters
 - For UR2, UR2-D, UR, UY-2, UY2-D, UP2, UP3, 211, UY connectors
- 

Item	Item no.	Fig.
Hand crimping tool	7400 009	5

Shield connection lead

- For attachment onto profile rods and backmount frame/ assembly channel
 - With unprinted paper label
 - With 2 crocodile clips
 - Length: 450 mm
- 

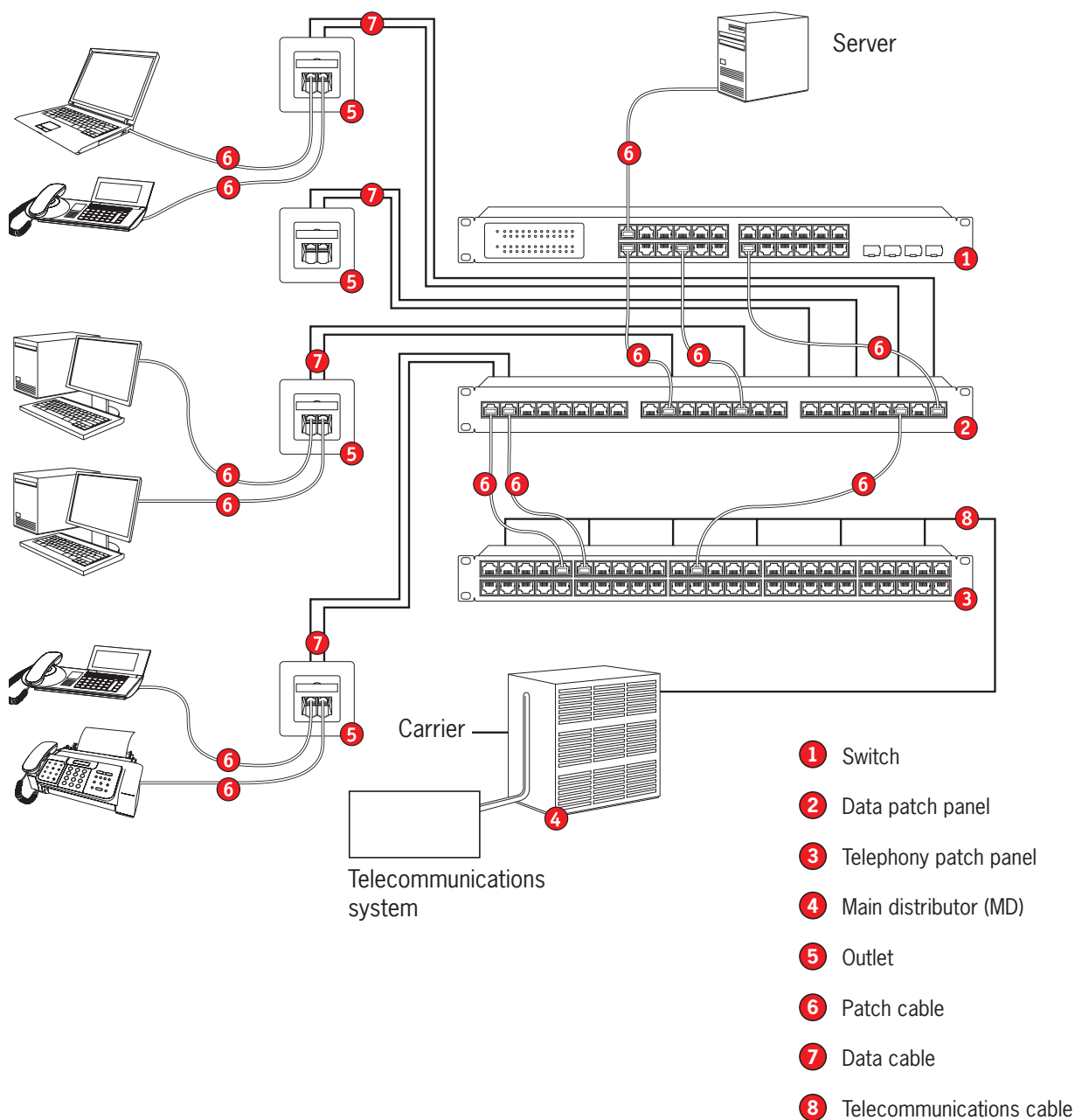
Item	Item no.	Fig.
Shield connection lead	1050 006	4

Technical information

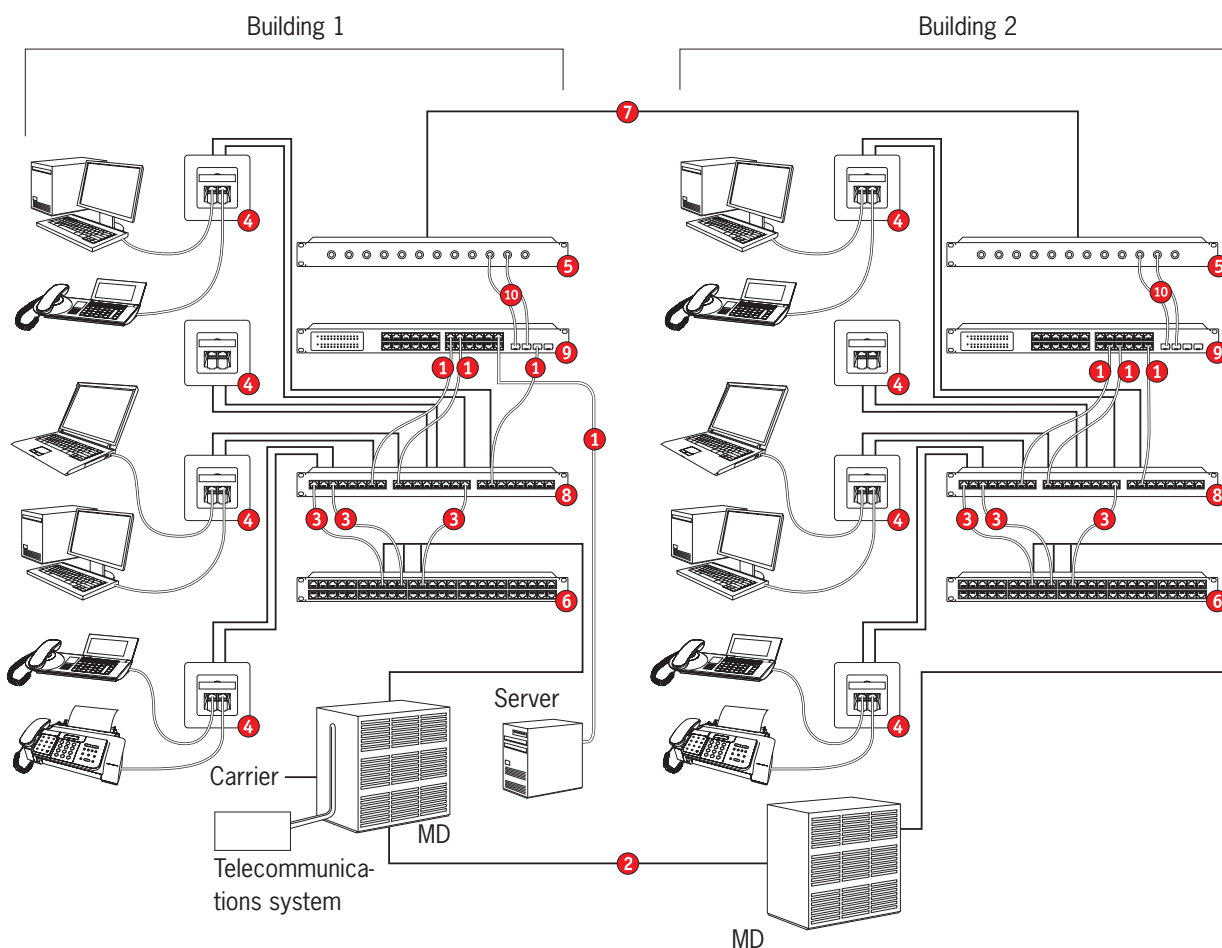
	Page
Composition of structured cabling for a data and telephone network using copper	316
Composition of structured cabling between buildings	317
Composition of telephone cabling	318
Contact assignments for 8-pin modular connectors	318
Connection assignments as per EIA/TIA 568	318
Jumper wire guidance with LSA modules, 10 twisted pairs	319
Labelling of a 100-twisted-pair block	319
Using the horizontal jumper wire eyelet	319
Installation cables with layer stranding as per DIN VDE 0815/DIN 57815	320
Installation cables with bundled stranding as per DIN VDE 0816 Part 1	320
IP protection classes as per DIN EN 60529	321

Technical information

Composition of structured cabling for a data and telephone network using copper



Composition of structured cabling between buildings

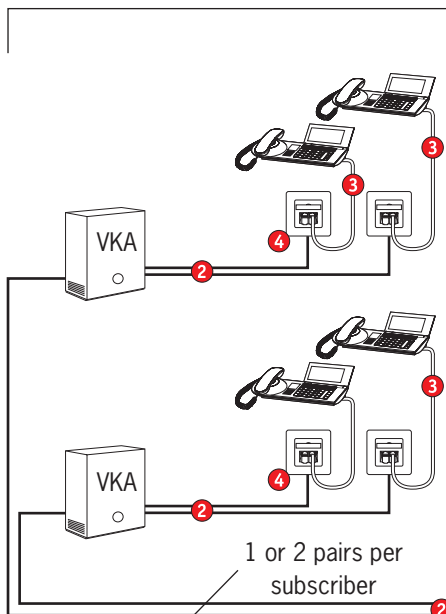


- 1 Patch cable for data technology
- 2 Telecommunications cable
- 3 Patch cable for telephony
- 4 Outlet
- 5 Fibre-optic splice box
- 6 Telephony patch panel
- 7 Fibre-optic cable
- 8 Data patch panel
- 9 Switch with integrated fibre-glass module
- 10 Fibre-optic patch cable

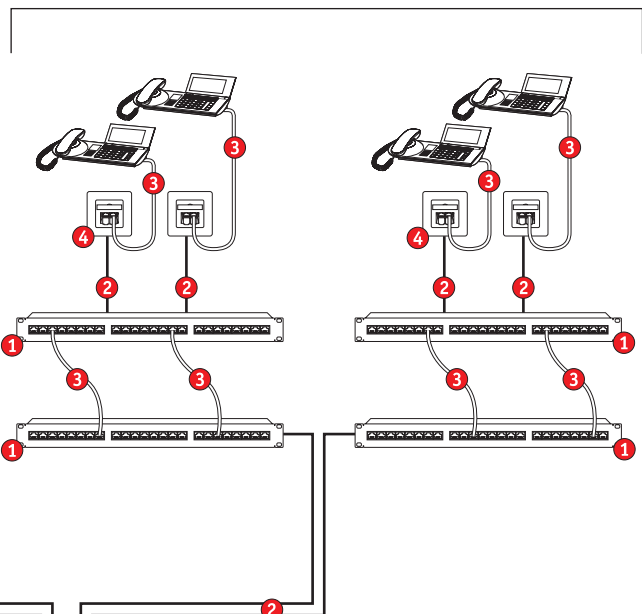
Technical information

Composition of telephone cabling/contact assignments for 8-pin modular connectors Connection assignments as per EIA/TIA 568

Cabling via distributor modules with fixed jumpering



Cabling via patch fields with patch cables



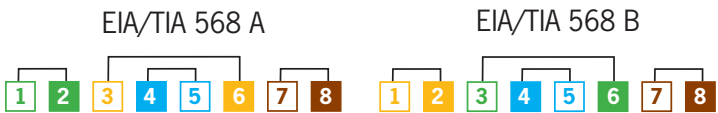
- 1 Telephony patch panel
- 2 Telecommunications cable
- 3 Patch cable for telephony
- 4 Outlet

Contact assignments for 8-pin modular connectors

Contact	Telephone	ISDN	Ethernet BaseT	GB Ethernet	Token Ring	TP-PMD	AS400	3270	ATM
1			TX+	x		TX+			x
2			TX-	x		TX-			x
3		RX+	RX+	x	RX+			RX+	
4	a	TX+		x	TX+		TX+	TX+	
5	b	TX-		x	TX-		TX-	TX-	
6		RX-	RX-	x	RX-			RX-	
7				x		RX+			x
8				x		RX-			x

TX = transmission direction RX = receiving direction

Connection assignments as per EIA/TIA 568



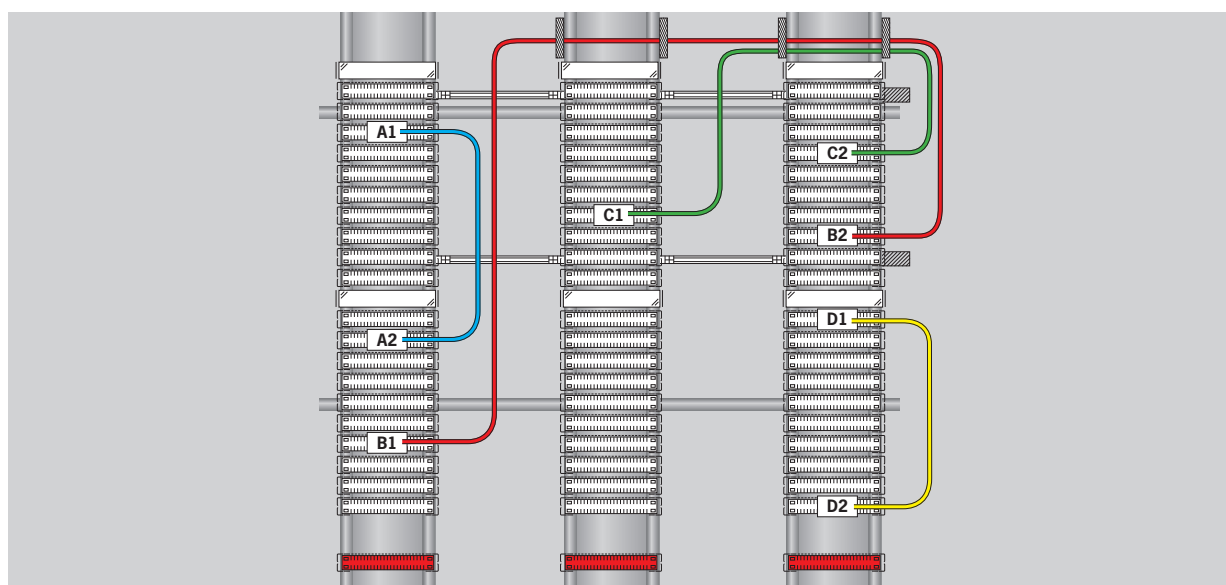
Jumper wire guidance with LSA modules, 10 twisted pairs

The LSA modules, 10 twisted pairs, are fitted with large jumper wire eyelets, which guarantees the jumpering of 10 twisted pairs towards the right.

With LSA-HD® modules, the jumper wires are guided to the right and left-hand sides.

Jumper wire guidance versions

- A1-A2** Jumper wire guidance within a row
- B1-B2** Jumper wire guidance between non-adjacent rows
- C1-C2** Jumper wire guidance between adjacent rows
- D1-D2** Jumper wire guidance within a row



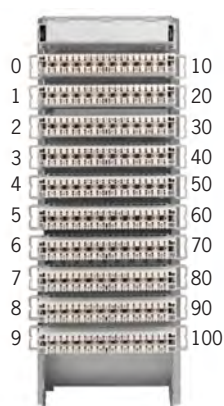
Labelling of a 100-twisted-pair block

Use of the plug number sets 0...9 and 10...100 to label a 100-twisted-pair block.

Standard design of a 100-twisted-pair block with a module label holder at the top and plug number sets.

One earth module is used per row.

Hinged label holders are used for individual cable labelling.



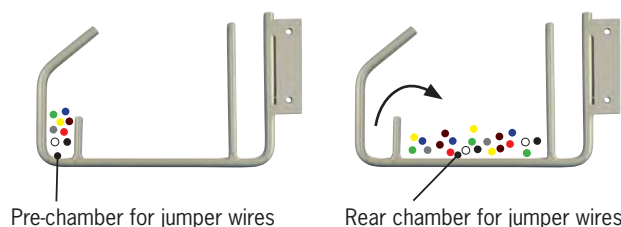
Using the horizontal jumper wire eyelet

Preparation of the jumpering, guidance of the jumper wire in the pre-chamber of the jumper wire eyelet.

Connection of the LSA connection modules using LSA insertion tool and assembly aid.

Transfer of the connected jumper wires to the rear chamber of the jumper wire eyelet.

This ensures loose guidance of the jumper wire so that the route can be traced.



Technical information

Installation cables with layer stranding as per DIN VDE 0815/DIN 57815 Installation cables with bundled stranding as per DIN VDE 0816 Part 1

Installation cables with layer stranding as per DIN VDE 0815/DIN 57815

Types

J-Y(St)Y	... x 2 x ... Lg
J-2Y(St)H	... x 2 x ... Lg
J	Indoor cable
Lg	Pairs stranded in concentric layers to the core
St	Metal foil shielding
Y	PVC isolation
2Y	PE isolation
H	Halogen-free material

Labelling

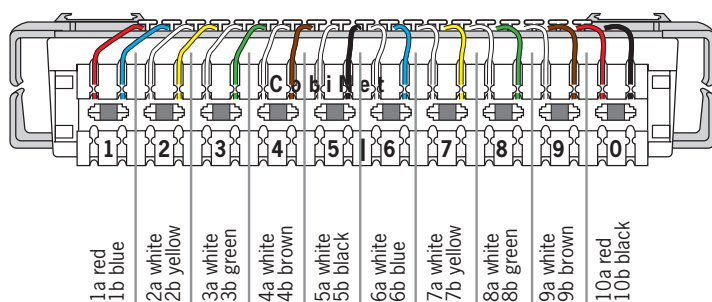
With 2-pair installation cables

- 1st pair a-core red/b-core black
- 2nd pair a-core white/b-core yellow

With 4-pair and multi-pair installation cables

- 1st pair per layer a-core red/or for all other pairs white
- b-core blue, yellow, green, brown, black
- In continually repeated sequence

Colour scheme for layer stranding 2/10 for 10 twisted pairs



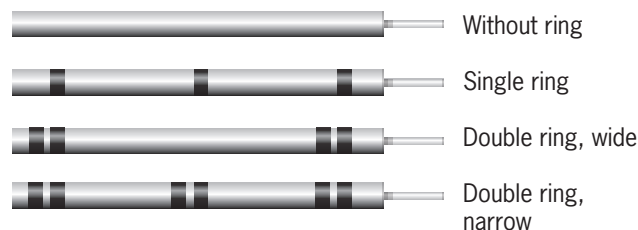
Installation cables with bundled stranding as per DIN VDE 0816 Part 1

Types

A-2YF(L)2Y	... x 2 x ... St III Bd
A-2Y(L)2Y	... x 2 x ... St III Bd
A	Outdoor cable
Bd	Bundled stranding
F	Filled core
L	Aluminium sheath
St III	Star quad
2Y	PE isolation

Labelling

The following labelling is used to differentiate between the individual cores:



Star quad identified by a ring

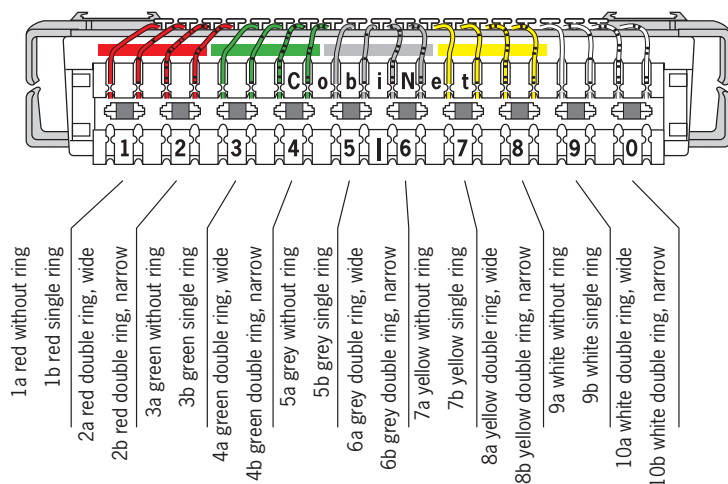
Labelling of the individual cores

- Trunk 1 a-core without ring
- b-core single ring
- Trunk 2 a-core double ring, wide
- b-core double ring, narrow

Colour scheme for bundled stranding

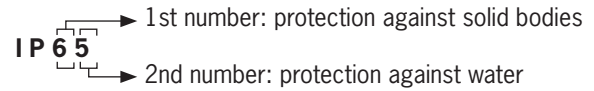
Bundle-stranded cables with star quads are colour-coded in order to differentiate between the individual quads in one base bundle. The isolation of all cores within a quad is colour-coded as follows:

Star quad 1: red, 2: green, 3: grey, 4: yellow, 5: white

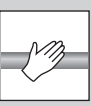
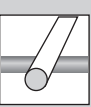
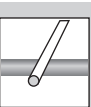
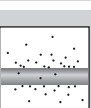


The protection classes are indicated by an abbreviation made up of the two letters IP and the two numbers for the protection class.

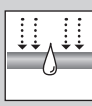
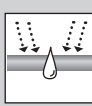
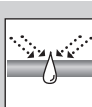
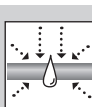
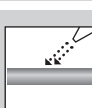
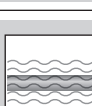
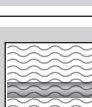
Example:



Degree of protection against the ingress of solid foreign bodies (first number)

	0 Not protected
	1 Protected against solid foreign bodies > 50 mm diameter. Protected against access to dangerous parts with the back of the hand.
	2 Protected against solid foreign bodies > 12.5 mm diameter. Protected against access to dangerous parts with the finger.
	3 Protected against solid foreign bodies > 2.5 mm diameter. Protected against access to dangerous parts with a tool.
	4 Protected against solid foreign bodies > 1 mm diameter. Protected against access to dangerous parts with a wire.
	5 Protected against dust; the ingress of dust is not fully prevented, but dust must not ingress in a quantity that may impair safety or the satisfactory operation of the device.
	6 Complete protection against dust.

Degree of protection against water (second number)

	0 Not protected
	1 Vertically falling condensation droplets must not have any harmful effects.
	2 Vertically falling droplets must not have any harmful effects if the housing is tilted at an angle of up to 15° on either side of the vertical.
	3 Water sprayed at an angle of up to 60° on either side of the vertical must not have any harmful effects.
	4 Water spraying onto the housing from any direction must not have any harmful effects.
	5 Water aimed at the housing from any direction as a jet must not have any harmful effects.
	6 Water aimed at the housing from any direction as a powerful jet must not have any harmful effects.
	7 Water must not ingress in a quantity that has a harmful effect when the housing is temporarily immersed in water under standardised pressure and time conditions.
	8 Water must not ingress in a quantity that has a harmful effect when the housing is permanently immersed in water under conditions that must be agreed upon between the manufacturer and the user. The conditions must be more severe than those in Item 7.

YOUR RELIABLE PARTNER FOR STABLE CONNECTIONS

CobiNet – developer, manufacturer, supplier

CobiNet Fernmelde- und Datennetzkomponenten GmbH is one of the leading providers of connection and cabling solutions in the telecommunications sector.

We have been developing, manufacturing and supplying genuine quality products in the field of cable and network technology for over twenty years. CobiNet branded products are used in their millions every single day in computer centres and homes, offices and industrial buildings, as well as in the telephone and broadband cabling sectors, and help create the necessary conditions for secure and reliable network performance.



The innovative technology from CobiNet has proven just as effective with national and international telecommunications providers as with applications relating to building cabling, ranging from residential buildings to airports.

In addition to a full and comprehensive product range, we also offer individual solutions based on customer requirements, from large-scale and small-scale series through to single pieces. As an owner-managed medium-sized company with headquarters in Heddesheim near Heidelberg, we are able to respond to our customers' requirements in a flexible and uncomplicated manner.



Uncompromising quality

CobiNet stands for above-average quality, branded products certified by independent testing institutes and a large selection of patents and protected utility models.

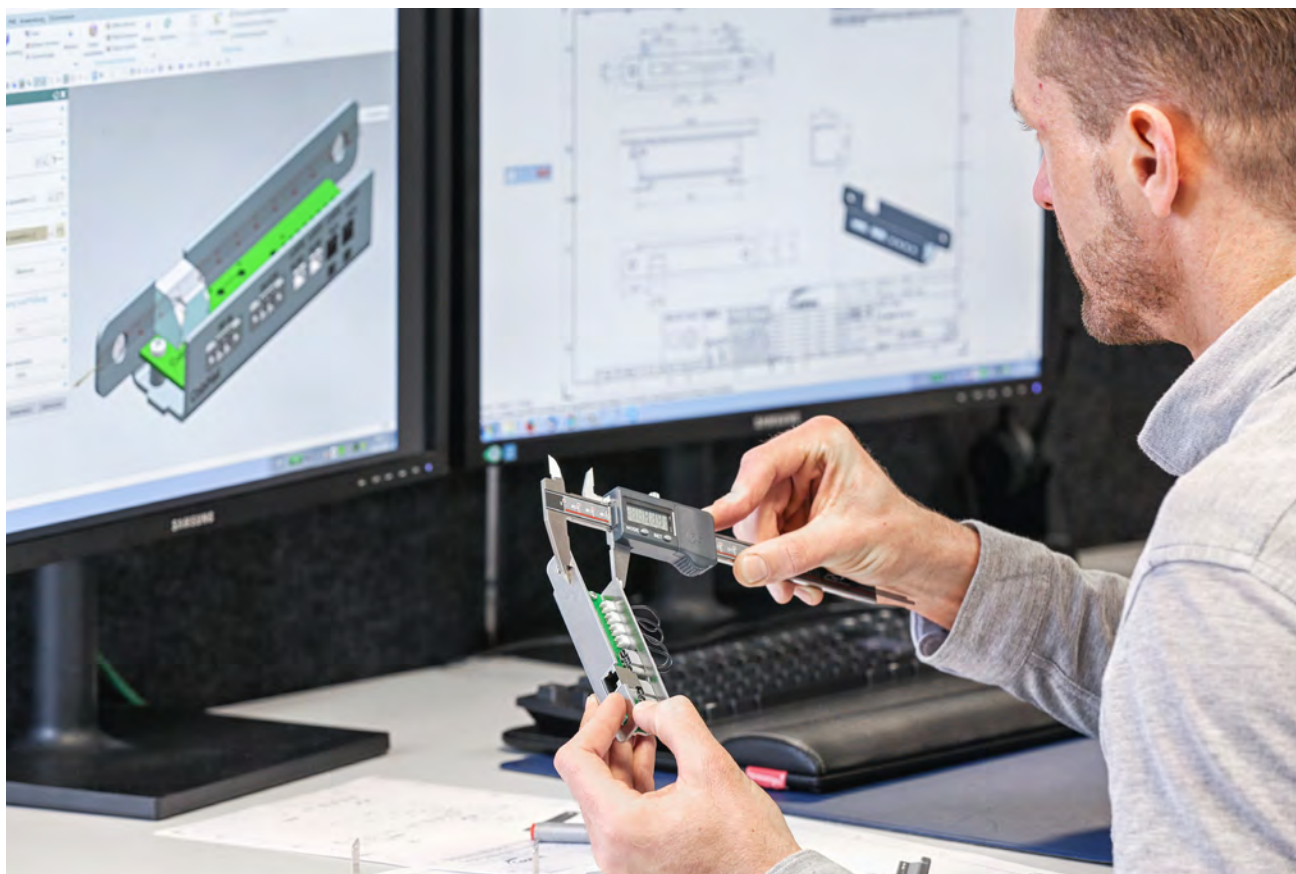
Our certification to DIN EN ISO 9001:2008, our position as a long-standing supplier of Deutsche Telekom AG and the use of our components in sensitive high-performance networks in airports, train stations and computer centres all help to prove the high quality of our products.

We attach particular importance to performance, reliability and time-saving, user-friendly assembly, as well as sophisticated connection techniques. For the development and produc-

tion of our branded products, our employees have access to state-of-the-art technical equipment including an in-house testing laboratory, as well as high-quality materials and machines. The quality of the finished items is guaranteed by means of testing throughout all of the production processes, as well as test and measurement reports. All of our processes – from development to delivery – as well as the products themselves, are aimed at the basic principles of sustainability and environmental compatibility.

With consistent use of CobiNet network components, our customers can also benefit from the system warranty. We guarantee the perfect functioning of the system with regard to transmission values and compatibility, helping to ensure maximum planning and operational reliability.





Competent and innovative partner

Whether in relation to development, production or delivery, CobiNet customers can always benefit from our employees' outstanding expertise and long-standing project experience in areas ranging from telecommunications to building cabling. Our success has proven us right, as we are growing quickly but sustainably, and without making any compromises in terms of quality. This allows us to continually optimise our performance and to constantly come up with innovations that are now sector standards. As a training organisation and a university partner of DHBW (Baden-Württemberg Cooperative State University) in Mannheim, we are able to benefit from new ideas and innovative minds.

CobiNet offers sensible, effective and efficient solutions designed by specialists for specialists. Our employees provide customers with professional advice tailored to their individual requirements, and we can find the ideal solution in terms of

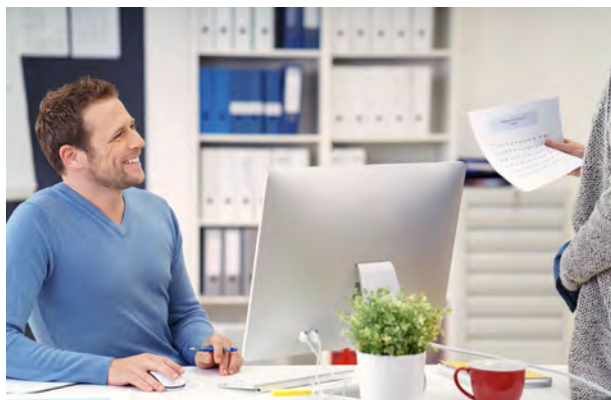
technology, price and schedule for any possible brief. As a reliable partner, we will gladly provide advice from the planning and processing of tendering documents right through to project completion. Architects, planners and installation engineers can therefore rely just as much on our quick and simple service as they can on the quality of our products. CobiNet customers really appreciate the mutual trust and the fact that, for us, a good solution is more important than a quick transaction.

Customer-specific solutions

As an owner-managed, medium-sized company, CobiNet has the necessary flexibility to respond in a quick and simple manner to new market requirements as well as to individual demands and short-term changes. In addition to our

WE PRODUCE NETWORK PERFORMANCE

comprehensive full product range, we also offer tailor-made solutions based on customer requirements – from the development stage right through to the finished product. Whether this takes the form of a needs-based adaptation of series products or the complete new development and production of components based on individual requirements, if we don't have an appropriate solution in our existing range, we will produce these items either individually or as a large-scale series based on the specific requirements. We are also happy to provide our support in on-site planning and installation.



Our flexibility is also evident in the way in which we deliver our products: CobiNet customers are able to define how they want to receive their products. The fact that we have our own warehousing facility, with all standard products kept in stock, means that items are usually dispatched by courier on the day that the order is placed. We also provide just-in-time delivery in accordance with customer requirements, as well as direct delivery of the required products to the construction site.



CobiNet online: online shop, and tendering and planning support

You can make the most of our detailed knowledge at any time by visiting our website, which is clearly structured and contains everything you need to know about CobiNet, our products and our contacts both in Germany and abroad. The associated online shop provides our customers with a clear and convenient ordering system, and much, much more besides. In the online shop, you will be able to find a large number of items as well as the relevant documentation for download, such as datasheets, drawings or certificates.

For complex interdisciplinary tasks such as those encountered in planning and engineering companies, we also have a comprehensive download area to help simplify the planning processes. This area features up-to-date tendering documents, datasheets, installation instructions, certificates and test reports in various different file formats, with headings relating to telecommunications, data network technology and fibre-optic technology for coordinated components. This makes it easier to plan a future network infrastructure while simultaneously cutting costs.

www.cobinet.com

The added value we offer for you

DIN EN ISO 9001:2008

Quality commitment

Our extremely high quality standards and uncompromising quality assurance form the basis of our products, which are certified by independent testing institutes, and of our large selection of patent and utility model protections.

The fact that CobiNet has been certified to DIN EN ISO 9001:2008 since January 2010 and is a long-standing supplier of Deutsche Telekom AG says just as much about our quality as does the fact that our components are used in extremely sensitive high-performance networks in airports, train stations and computer centres. The "made by CobiNet" branded products are characterised by their performance, their reliability, their time-saving and user-friendly assembly and their sophisticated connection techniques.

The name CobiNet stands for high-quality networks and a future-oriented IT infrastructure.



The added value we offer for you

System warranty



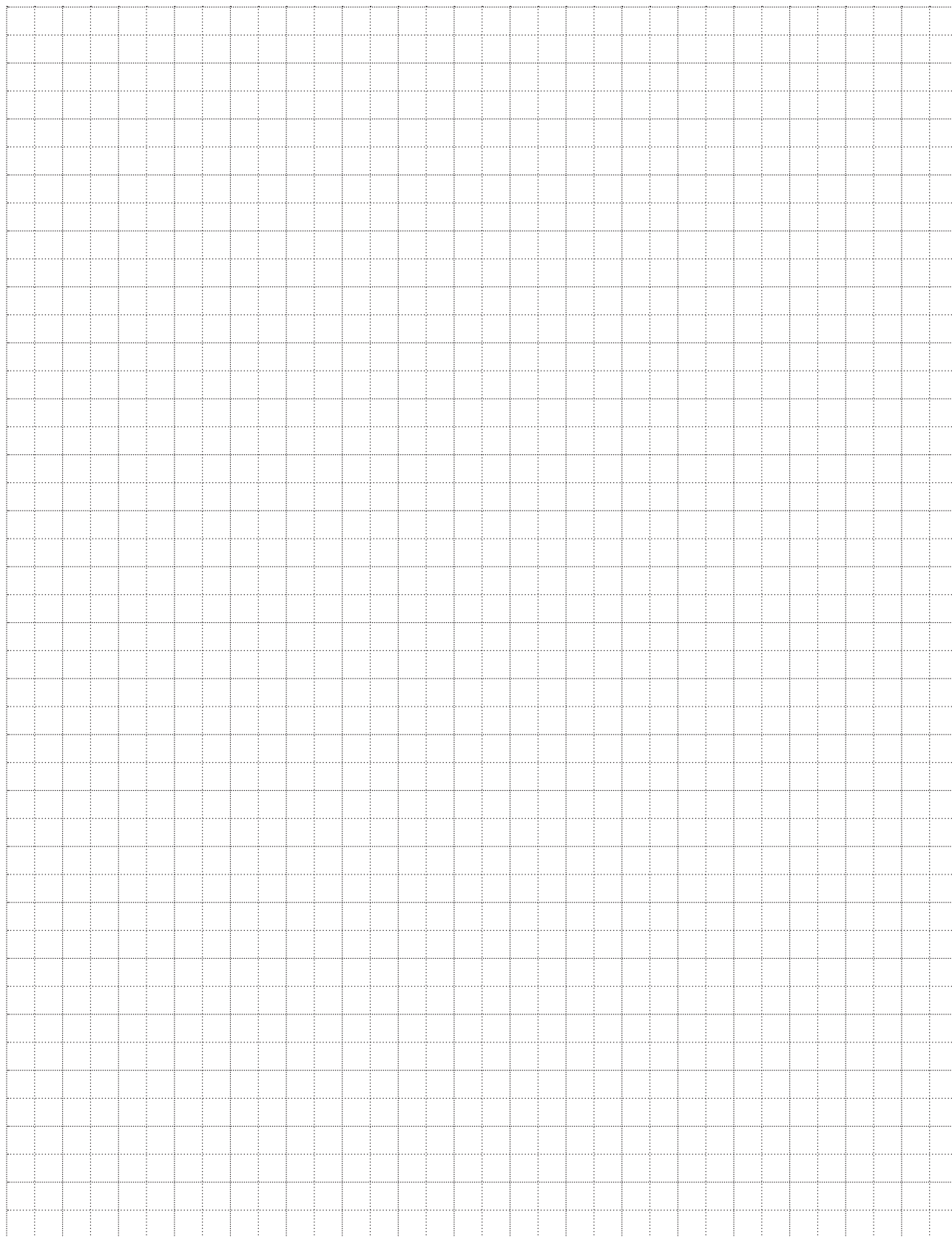
25-year system warranty – no problem for our components!

There are a lot of guarantees and warranties on the market. With the CobiNet 25-year system warranty, you can rest assured that your system will remain stable, error-free and fully operational in the long term. We trust our products so you can rely on them.

Procedure:

1. You buy all of your system components from us.
2. You have the components correctly installed.
3. You have a measurement of the relevant line distances carried out as per the corresponding regulations, and send us the reports on a data carrier.
4. We verify the measurement results at our premises.
5. We then send you a declaration and a system warranty certificate.

Make plans with us!



Keyword directory

1-9

19" supporting rail	165
90° adapter KS	16, 18

A

ALU splice box FX	92 - 102
Assembly adapter for profile/DIN rail	23, 48, 197, 237
Assembly channel	224, 253
Assembly channel	253
Attachable label holder 2/10	197, 236

B

Backmount frame, flexible	252
Base for free-standing distribution cabinet	216, 249, 268
Base with levelling feet	151, 168
Branching kit for sleeves	312
Bridging plug	199
Bridging plug, LSA-HD®, 1 twisted pair	189
Bridging plug, LSA-HD®, 5 twisted pairs	189

C

Cable channel, vertical with cable cover	165
Cable connector, LSA UTP	43
Cable connector, LSA	15, 38
Cable fixation for supporting frame	21, 47
Cable fixation rail	165
Cable gland	124
Cable guide	255
Cable head, CH 08 LSA-HD®	292
Cable head, OP CH 11	289
Cable routing bracket	163, 254
Cable routing bracket, side	163
Cassette carrier, F-HD	62
CH 14 TL	301
Changeover adapter LSA-HD®, 1 twisted pair	189, 299
Changeover adapter with transit function 2/1	199
Changeover adapter with transit function 2/10	199
Coding clip, LSA-HD®	298
Connection cord 2/1, 2-pin	203, 241
Connection cord 2/2, 4-pin	203, 241
Connection cord LSA-HD®, 2-pin	191
Connection cord LSA-HD®, 4-pin	191
Consolidation-point housing, KS	21, 47
Cooling unit for network cabinets	167
Cord 2/1, 2-pin	200, 238
Cord 2/2, 4-pin	200, 238
Core connector	309, 314
Cover contact, for VKA/VdS distributor housing	257, 258
Cover strip 2/10	199
Crimp splice protection	125

D

Data cable, shielded	15
Data cable, unshielded	42, 43
Data connection housing, KS	22, 47
DIN connection module, for 10 twisted pairs	271
DIN connection module, for 20 twisted pairs	271
DIN rail adapter	23, 48, 237
DIN rail adapter, 1/10	270
DIN rail module bracket, KS	23, 48
DIN rail module housing, KS	23, 48
Disconnection adapter with disconnection function 2/1, for 1 twisted pair	199
Disconnection adapter with disconnection function, for 10 twisted pairs	199
Disconnection block 71/100	264
Disconnection block, system 71/17, for 100 twisted pairs	262

Disconnection plug 2/1	198
Disconnection plug LSA-HD®, 1 twisted pair	188, 298
Disconnection plug LSA-HD®, 10 twisted pairs	298
Distribution rack frame, 483 mm (19"), with profile rods	221
Distribution rack, 19"	256
Distribution rack, 19", profile rods	163, 221, 256
Distributor cord, TPU4 - RJ45	276
Distributor cord, TPU4 - TPU4	276
Document case, A4	163
Document compartment, 19"	162
Door contact switch	160
Door position switch with retaining bracket	160
Double castors	167
Dummy front panel, 19"	163
Dummy module, DC, suitable for module bracket DC, compact	59
Dummy plate for profile rods	224
Dummy plug, 2/1 BF	198
Dummy plug, KS	22, 45
Dust protection cap, KS	18

E

Earth bar	161
Earth bar, 2/10	206
Earthing set, for telecommunications cable on cross-connection cabinet frame	286
Excess cable length storage, WO	130

F

Fan expansion kit	166
Fan expansion kit, for Wall F/V	166
Fan plate for roof and floor plate	166
Fan plate for roof installation	166
Fan tray, 19"	166
Fibre-optic adapter	134 - 136
Fibre-optic alcohol dispenser	144
Fibre-optic cassette housing for WWF	131
Fibre-optic cleaning cassette	145
Fibre-optic cleaning swabs	145
Fibre-optic cleaning tape for cleaning cassette	145
Fibre-optic dummy plug	124
Fibre-optic ferrule cleaner	144
Fibre-optic fibre pigtail	137 - 139
Fibre-optic indoor cable (break-out cable)	88
Fibre-optic Kevlar® scissors	146
Fibre-optic launch fibre box	143
Fibre-optic outdoor cable (installation cable)	74 - 79
Fibre-optic outdoor cable (trunk cable)	84
Fibre-optic outlet, FtH	129
Fibre-optic outlet, WO	129
Fibre-optic patch cable	140
Fibre-optic patch panel for SK	126, 127
Fibre-optic plastic distributor case, FtH, with cover	128
Fibre-optic plastic distributor KS	127
Fibre-optic precision wipes, white	144
Fibre-optic steel plate distributor box, SK, with 2 swing doors	127
Fibre-optic steel plate distributor box, SK, with cover	126
Fibre-optic stripping pliers	147
Fibre-optic stripping tool	146
Fibre-optic stripping tool	146
Fibre-optic universal cable (installation cable)	70 - 73
Fibre-optic universal cable (trunk cable)	80
Fibre-optic wall-mounted distribution cabinet, WWF2	131
Fibre-optic warning sign	124
Filter fan, 120 x 120 mm	166
Filter fan, 80 x 80 mm	166
Fire protection telecommunication distributor	261
Flush-mount frame for BOX I - III	244

Free-standing distribution cabinet	215, 248, 267
Free-standing distribution cabinet, SVL	248
Free-standing distribution cabinet, SVP	215
Free-standing distribution cabinet, SVP/SVL	215, 248, 267
Free-standing distribution cabinet, SVP/SVL	215, 248, 267
Free-standing distribution cabinet, SVS	267
Free-standing distribution frame, SVML	251
Front panel, 10"	163
Front panel, 19" with cable feed-through	164
Front panel, 19"	163
Front panel, 19"	164

G

GHMT-certified patch cable	26
Guide rail	273

H

Heavy-duty shelf, stationary	161
Hinged label holder, 1/10	270
Hinged label holder, 1/20	211, 270
Hinged label holder, 2/10	197, 236
Hinged label holder, LSA-HD®, 10 twisted pairs	296, 297
Hook-and-loop cable clip	37

I

Insertion cassette, F-HD	62
Insertion tool for series 71	265
Insertion tool for series 71/1000RT/2000/5000	265
Installation frame, 19", 4 RU	293
Installation frame, ETSI	293
IP54 upgrade kit	131, 214, 247, 266
ISDN cable, RJ45 - RJ45	277

J

Jumper wire guide bracket	254
Jumper wire guide bracket	254
Jumper wire guide bracket	255
Jumper wire guide bracket	255
Jumper wire guide panel, 483 mm, (19"), 1 RU	295

K

Keyboard compartment, 19"	162
---------------------------	-----

L

Lab rack, CobiRack Lab, 483 mm (19")	155
Labelling strip holder, universal	38
Labelling strips for patch panels, KS	19, 45
Levelling feet	167
Locking system for VKA	212, 243
LSA connection module, 1/10, for 10 twisted pairs	270
LSA connection module, 1/20 for 20 twisted pairs	211, 270
LSA connection module, 2/10 for 10 twisted pairs	194, 234
LSA connection module, 2/10, for 10 twisted pairs	194
LSA disconnection module, 2/10 SK, for 10 twisted pairs	196, 235
LSA disconnection module, 2/10, for 10 twisted pairs	194, 234
LSA disconnection module, 2/10, for 10 twisted pairs	195
LSA earth module, 1/44	270
LSA earth module, 1/84	211, 270
LSA earth module, 2/38	234
LSA insertion tool	36, 44, 188, 196, 235
LSA overvoltage arrester magazine, 2/10	205
LSA-HD® connection module for 10 twisted pairs	296
LSA-HD® disconnection module for 10 twisted pairs	296
LSA-HD® distribution rack, 19"	295
LSA-HD® earth module	296
LSA-HD® overvoltage protection magazine for 10 twisted pairs	296
LSA-HD®(P)-RS hinged label holder	189, 287

LSA-HD®(P)-RS strain relief comb	187, 287
LSA-HD®-P connection module for 10 twisted pairs	289
LSA-HD®-P connection module for 8 twisted pairs	289
LSA-HD®-P disconnection module for 10 twisted pairs	289
LSA-HD®-P disconnection module for 8 twisted pairs	289
LSA-HD®-P overvoltage protection magazine for 10 twisted pairs	289
LSA-HD®-P overvoltage protection magazine for 5 twisted pairs	262
LSA-HD®-P overvoltage protection magazine for 8 twisted pairs	289
LSA-HD®-PRS connection module for 10 twisted pairs, for profile rods	286, 287
LSA-HD®-PRS disconnection module for 10 twisted pairs, for profile rods	286, 287
LSA-HD®-PRS overvoltage protection magazine for 10 twisted pairs	287
LSA-HD®-RS connection module for 10 twisted pairs, for profile rods	186, 187
LSA-HD®-RS disconnection module for 10 twisted pairs, for profile rods	186, 187
LSA-HD®-RS earth module	186, 286
LSA-HD®-RS overvoltage protection magazine for 10 twisted pairs	187
LSA-TL assembly adapter	230, 302
LSA-TL disconnection module for 10 twisted pairs	230, 302
LSA-TL marking cap, 1 twisted pair	231, 303
LSA-TL overvoltage protection magazine for 10 twisted pairs	230, 302
LSA-TL test cord	231, 303

M

Magazine cover, 2/10, transparent	206
Marking cap, 1/1	211, 271
Marking cap, 2/1	198
Marking cap, LSA-HD®, 1 twisted pair	188, 298
Micro-fuse plug-in board, 2/10	209
Mini plastic distributor, KS	246
Modular cable, RJ12 - RJ12	277
Modular cable, RJ12 - RJ45	277
Modular fibre-optic outlet	124
Module bracket, DC, compact	59, 60
Module bracket, KS, flexible	23, 48
Module label holder, 2/10	236
Module label holder, LSA-HD® RS, 10 twisted pairs	189
Module label holder, LSA-HD®, 10 twisted pairs	297
Mounting bracket for outlets	38
Mounting kit for cable routing bracket	163
Multi-design module support, KS	20

N

NEOZED fuse	175
Network cabinet, CobiRack Pro, 19"	151
NT subrack, 19"	163, 272
NTBA subrack, 10"	273
NTBA subrack, 19"	272
NTBA support plate	273
NTBA wiring set	273

O

Outlet insert, KS	46
Outlet, Class C	274, 275
Outlet, for UTP-KS modules	42, 46
Outlet, KS	20
Outlet, shielded	25
Outlet, TAE	274
Outlet, unshielded	42, 50
Overvoltage arrester magazine 71/5, 8x6	265
Overvoltage arrester, 8x10, 3-pole	205
Overvoltage arrester, 8x6, 2-pole	204
Overvoltage/overcurrent protection	206, 207, 208

Keyword directory

P

Parallel pliers for RJ45 jack KS	18
Patch and connecting cable MTP®/f / MTP®/f	63
Patch panel, 19"	275
Patch panel, KS	42, 45
Plastic distributor cabinet, KS	246
Plastic distributor case, VKK I – III	271
Plastic distributor, BOX I – IV	244
Plastic distributor, KS	127, 245
Plug number set	189, 199, 231, 237, 297
Plug-in board, 2/10, with 40 solder contacts	209
Pole mounting kit for splice box OD 12/24	123
Potential equalisation rail with 2 isolators	160
Potential equalisation rail with cover	160
Power distributor box, SVB	175
Power distributor, SVT	172
Power supply plug-in board 2/10	209
Powerbox SVB	174
Press-in tool for unshielded Keystone modules	44
Profile half-cylinder with round cylinder	123, 165, 216, 249
Profile rod assembly channel	220
Profile rod assembly channel	220, 224, 253
Profile rod bracket	223
Profile rod earthing contact clamp	206
Profile rod jumper wire guide	224
Profile rod module label holder 2/10	197
Profile rod spacer	187, 197
Profile rod	222

R

RJ45 coupling KS	18, 37
RJ45 dummy plug	22, 37, 38, 45
RJ45 jack KS, shielded	17
RJ45 jack KS, unshielded	44
RJ45 patch cable, shielded	26 – 35
RJ45 patch cable, unshielded	42, 51
RJ45 patch panel LSA, shielded	24
RJ45 patch panel, LSA, unshielded	42, 49
Round cable clamp with snap fastener	124

S

Safety fuse	175
Scotchlok pliers, E-9YD	309, 314
Self-adhesive copper tape	37
Server cabinet, 19"	153, 154
Shelf, 10", stationary	162
Shelf, 19", extendible	162
Shelf, 19", stationary	161
Shield connection cable	314
Shielded cable tie	37
Shielded cable tie	37
Shielded switch wire, grey	309
Shrink splice protection	125
Single-core connector	309, 314
Slicing tool	36
Sliding rail set	164
Socket strip, 19", ALU	169
Socket strip, 19", plastic	169
Spacer	255
Splice box, OD 12/24	123
Splice box, PB	104 – 115
Splice cassette cover	125
Splice cassette	125
Splice deposit, WO	130
Splice mount	125
Splice mount	125
Stacking kit for data cabinets	151, 152, 153, 154, 160

Strain relief tape	124
Stripping pliers	147
Stripping tool	36
Supporting frame for underfloor systems KS	21, 47
Supporting rail	165
Surface-mounted frame for BOX I – III	244
Surface-mounted frame	38, 124
Switching cabinet light, 19"	160
Switching cabinet light, 230 V/11 W	160
Switching cabinet light, LED	160

T

T adapter for cable sharing	39
TAE	274
Telecommunications heat-shrink sleeve	312
Telephony patch panel	278, 279
Test cord 1/1	211, 271
Test cord 2/1, 1-pin	201, 239
Test cord 2/1, 2-pin	201, 239
Test cord 2/2, 2-pin	202, 240
Test cord 2/2, 4-pin	202, 240
Test cord 7052, 2-pin	25, 50, 190, 200, 238
Test cord 71 (7065), 4-pin	265
Test cord 71	265
Test cord LSA-HD®, 2-pin	190, 299
Test cord LSA-HD®, 4-pin	190, 191, 299
Thermal overload protection (fail-safe)	204
Thermostat, normally open contact	166
Trunk cable HY LSA-HD®	58, 60
Trunk cable KSHD	65
Trunk cable MTP®/f/MTP®/f	63

U

Universal sleeve	313
------------------	-----

V

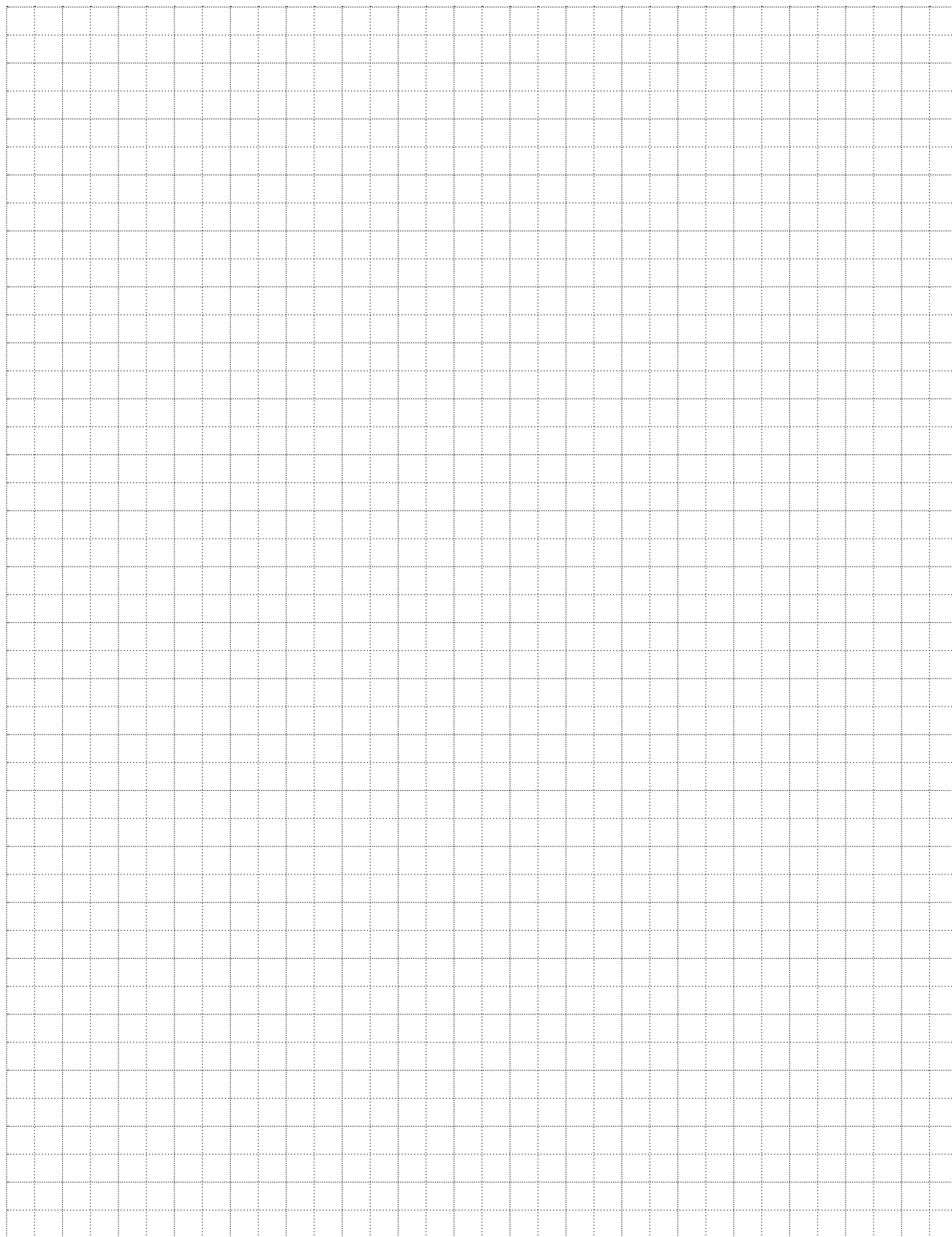
VdS small plastic distributor	259
VdS VKA/backmount frame, distributor housing	258
VdS VKA/profile rods, distributor housing	257
VKA/backmount frame, distributor housing	242, 243
VKA/profile rods, distributor housing	212, 213
VKU/backmount frame, flush-mounted distributor housing	243
VKU/profile rods, flush-mounted distributor housing	213

W

Wall housing, CobiRack Wall P	157
Wall housing, Mini 10"	159
Wall housing, Wall B	156
Wall housing, Wall F	158
Wall housing, Wall V	159
Wall-mounted distribution cabinet	214, 247
Wall-mounted distribution cabinet, WVL	247
Wall-mounted distribution cabinet, WVP	214
Wall-mounted distribution cabinet, WVS	266
Wall-mounted distribution cabinet, WVS	266
Wall-mounted distribution cabinet, WVS	266
Wall-mounted distribution cabinet, WVS	266
Wall-mounted distribution frame, WVGS	269
Wall-mounted distribution frame, WVML	250
Wall-mounted/free-standing distribution frame, WSMML	251

Y

YV switch wire	308
----------------	-----



Order number index

Item numbers	Page(s)	1008 3421	189	1013 1110	289	2-8101-1150	220, 253
1000x1200x320	266	1008 3425	189	1013 2052	289	2-8101-1150/L	253
1000x2000x400	215, 248, 267	1008 3500	296, 297	1014 1110	230, 302	2-8102	220, 253
1001 001	271	1008 3501	297	1014 2052	230, 302	2-8102/L	253
1001 005	271	1008 3502	297	1014 3100	230, 302	2-8108/K	254
1002 001	271	1008 3503	297	1014 32204/0,2	231, 303	2-8108/M	254
1002 005	271	1008 3504	297	1014 35211	231, 303	2-8115	220, 224, 253
1008 1010	296	1008 3510	188, 298	1014 35215	231, 303	2-8115/L	224, 253
1008 1110	296	1008 3511	188, 298	1014 4012	301	2010 255/10	221
1008 1220	296	1008 3512	188, 298	1015 1010	286, 287	2010 255/16	221
1008 2052	296	1008 3513	188, 298	1015 1110	286, 287	2010 255/21	221
1008 310136, 44, 188, 196, 235, 296		1008 3515	188, 298	1015 1220	186, 286	2010 601/26	155
1008 3212/0,2.1	190, 299	1008 3516	188, 298	1015 2052	287	2010 601/33	155
1008 3212/0,5	190, 299	1008 3518	188, 298	1015 2154	287	2010 601/42	155
1008 3212/0,5.1	190, 299	1008 3519	188, 298	1015 3500	189, 287	2010 602/26	155
1008 3212/1,0.1	190, 299	1008 3540	298	1015 3502	189	2010 602/33	155
1008 3212/2,0.1	190, 299	1008 3541	298	1015 3700	187, 287	2010 602/42	155
1008 3212/3,0.1	190, 299	1008 3542	298	1017 1010	186, 187	2010 709	163
1008 3214/0,2.1	190, 299	1008 3543	298	1017 1110	186, 187	2010 710	163
1008 3214/0,5.1	190, 299	1008 3545	298	1017 2052	187	2010 801/26	155
1008 3214/1,0.1	190, 299	1008 3546	298	1017 2154	187	2010 801/33	155
1008 3214/2,0	190, 299	1008 3547	298	1020 029/2	235	2010 801/42	155
1008 3214/2,0.1	190, 299	1008 3549	298	1020 029/2/P	196	2010 802/26	155
1008 3214/3,0.1	190, 299	1008 4010	292	1020 029/P	196	2010 802/33	155
1008 3222/0,2	190	1008 4012	292	1020 052	234	2010 802/42	155
1008 3222/0,5	190	1008 4020	292	1020 053	234	2021 008	244
1008 3222/1,0	190	1008 4022	292	1020 054	234	2021 009	244
1008 3222/2,0	190	1008 4510	292	1020 055	234	2021 010	244
1008 3222/3,0	190	1008 4512	292	1020 056	234	2021 011	244
1008 3224/0,2	191	1008 4520	292	1030 022	195	2021 018	244
1008 3224/0,5	191	1008 4522	292	1030 023	195	2021 019	244
1008 3224/1,0	191	1008 4905	293	1030 024	194	2021 020	244
1008 3224/2,0	191	1008 4906	293	1030 025	194	2021 021	244
1008 3224/3,0	191	1008 5000	295	1030 026	195	2021 028	244
1008 3232/0,2	191	1008 5001	295	1030 032	195	2021 029	244
1008 3232/0,5	191	1008 5003	295	1030 033	195	2021 030	244
1008 3232/1,0	191	1008 5003/30	295	1030 034	194	2021 031	244
1008 3232/2,0	191	1008 5004	295	1030 035	194	2021 032	271
1008 3232/3,0	191	1008 5900	254	1036 014	37	2021 038	271
1008 3234/0,2	191	1008 5901	254	1036 015	37	2021 039	271
1008 3234/0,5	191	1008 5902	254	1036 025	37	2021 041/AP	127
1008 3234/1,0	191	1008 5903	254	1036 026	37	2021 043/AP	127
1008 3234/2,0	191	1010 003	270	1036 029	286	2021 045/AP	127
1008 3234/3,0	191	1010 006	211, 270	1050 006	314	2021 046	246
1008 3284/0,2	191	1010 006/P	211	1071 020/S	264	2021 047	127, 245
1008 3284/0,5	191	1010 008	270	1071 026/S	264	2021 047/AP	127
1008 3284/1,0	191	1010 010	211, 270	1071 044	264	2021 048	245
1008 3284/2,0	191	1010 010/P	211	1071 2052	262	2021 049	245
1008 3284/3,0	191	1011 1010	289	1071 4812	262	2021 050	245
1008 3300	189, 299	1011 1110	289	1200 341	36	2021 051	246
1008 3400	188, 298	1011 2052	289	1200 342	36	2021 052	246
1008 3401	188, 298	1011 4020	289	1200x2000x400	215, 248, 267	2021 053	246
1008 3402	188, 298	1011 4040	289	2-8055	255	2021 054	246
1008 3403	188, 298	1011 4042	289	2-8100	220, 253	2021 056	127
1008 3405	188, 298	1011 4130/2,0	289	2-8100-300	220, 253	2021 057	127
1008 3406	188, 298	1011 4130/3,0	289	2-8100-300/L	253	2021 058	127
1008 3408	188, 298	1011 4340/2,0	289	2-8100-910	220, 253	2021 059	127
1008 3409	188, 298	1011 4340/3,0	289	2-8100-910/L	253	2021 060	126
1008 3410	298	1013 1010	289	2-8100/L	253	2021 061	126

Order number index

2021 062	126	2040 111	131	3010 008	265	3020 102/1,0.1	203, 241
2021 063	126	2040 999/1	131, 214, 247, 266	3020 001/0,2	211, 271	3020 102/2,0.1	203, 241
2021 064	126	2040 999/10	131	3020 003/0,2	25, 50, 190, 200, 238, 299	3020 102/3,0.1	203, 241
2021 066	126	2040 999/2	214, 247, 266	3020 020/0,2.1	201, 239	3020 102/5,0.1	203, 241
2021 067	126	2040 999/3	214, 247, 266	3020 020/0,5.1	201, 239	3020 114/1,0.1	203, 241
2021 071	244	2040 999/5	216, 249, 268	3020 020/1,0.1	201, 239	3020 114/2,0.1	203, 241
2021 073	244	2040 999/6	216, 249, 268	3020 020/2,0.1	201, 239	3020 114/3,0.1	203, 241
2021 074	244	2040 999/7	216, 249, 268	3020 020/3,0.1	201, 239	3020 114/5,0.1	203, 241
2021 075	244	2040 999/8	216, 249, 268	3020 028/0,2.1	201, 239	3022 022/1	252
2021 076	245	2040 999/9	131	3020 028/0,5.1	201, 239	3022 022/10	252
2021 077	245	2041 032	247	3020 028/1,0.1	201, 239	3022 022/3	252
2021 094	126	2041 033	247	3020 028/2,0.1	201, 239	3022 022/30	252
2021 095	129	2041 034	247	3020 028/3,0.1	201, 239	3022 022/39	252
2021 096	128	2041 035	247	3020 036/0,2.1	201, 239	3022 030/10	252
2021 097	128	2041 036	247	3020 036/0,5.1	201, 239	3022 030/30	252
2030 036	257, 258	2041 037	247	3020 036/1,0.1	201, 239	3022 030/39	252
2030 085	261	2050 001	267	3020 036/2,0.1	201, 239	3022 050/1	252
2030 086	261	2050 002	267	3020 036/3,0.1	201, 239	3022 050/10	252
2030 087	261	2050 003	267	3020 044/0,2.1	201, 239	3022 050/30	252
2030 088	261	2050 004	267	3020 044/0,5.1	201, 239	3022 050/39	252
2030 089	261	2050 009	215	3020 044/1,0.1	201, 239	3025 022	252
2030 099	261	2050 010	215	3020 044/2,0.1	201, 239	3025 022/1	252
2030 100	261	2050 011	215	3020 044/3,0.1	201, 239	3025 022/10	252
2030 101	261	2050 012	215	3020 046/1,0.1	200, 238	3025 022/3	252
2030 102	261	2051 009	248	3020 046/2,0.1	200, 238	3025 022/30	252
2030 120	260	2051 010	248	3020 046/3,0.1	200, 238	3025 022/39	252
2030 121	260	2051 011	248	3020 046/5,0.1	200, 238	3025 030/10	252
2030 122	260	2051 012	248	3020 051/1,0.1	203, 241	3025 030/3	252
2030 129	260	2060 020	269	3020 051/2,0.1	203, 241	3025 030/30	252
2030 130	260	2060 021	269	3020 051/3,0.1	203, 241	3025 030/39	252
2030 131	260	2060 022	269	3020 051/5,0.1	203, 241	3025 050/1	252
2030 201	212	2060 023	269	3020 062/0,2.1	202, 240	3025 050/10	252
2030 202	212	2060 024	269	3020 062/0,5.1	202, 240	3025 050/3	252
2030 204	212	2060 025	269	3020 062/1,0.1	202, 240	3025 050/30	252
2030 208	212	2060 026	269	3020 062/2,0.1	202, 240	3025 050/39	252
2030 212	212	2060 027	269	3020 062/3,0.1	202, 240	3027 022/10	252
2030 602	213	2060 035	255	3020 070/0,2.1	202, 240	3027 022/30	252
2030 604	213	2060 058	163, 254	3020 070/0,5.1	202, 240	3027 022/39	252
2031 201	242	2060 059	163, 254	3020 070/1,0.1	202, 240	3027 030/10	252
2031 202	242	2060 063	255	3020 070/2,0.1	202, 240	3027 030/30	252
2031 204	242	2060 064	255	3020 070/3,0.1	202, 240	3027 030/39	252
2031 206	242	2060 065	163	3020 078/0,2.1	202, 240	3027 050/10	252
2031 208	242	2074 071	258	3020 078/0,5.1	202, 240	3027 050/3	252
2031 212	242	2074 072	258	3020 078/1,0.1	202, 240	3027 050/30	252
2031 602	243	2074 073	258	3020 078/2,0.1	202, 240	3027 050/39	252
2031 604	243	2074 074	258	3020 078/3,0.1	202, 240	3030 020	197, 236
2040 032	214	2074 075	258	3020 087/0,2.1	202, 240	3030 026	199
2040 033	214	2085 071	259	3020 087/0,5.1	202, 240	3030 028	199
2040 034	214	2085 072	259	3020 087/1,0.1	202, 240	3030 030	199
2040 035	214	2085 073	259	3020 087/2,0.1	202, 240	3030 031	199
2040 036	214	2085 074	259	3020 087/3,0.1	202, 240	3030 032	199
2040 037	214	2085 075	259	3020 089/1,0.1	200, 238	3030 035	199
2040 064	266	2085 076	259	3020 089/2,0.1	200, 238	3030 043	198
2040 065	266	2086 071	257	3020 089/3,0.1	200, 238	3030 044	198
2040 066	266	2086 072	257	3020 089/5,0.1	200, 238	3030 045	198
2040 067	266	2086 073	257	3020 095/1,0.1	203, 241	3030 046	198
2040 068	266	2086 074	257	3020 095/2,0.1	203, 241	3030 047	198
2040 069	266	2086 075	257	3020 095/3,0.1	203, 241	3030 048	198
2040 110	131	2800 801	224	3020 095/5,0.1	203, 241	3030 049	198

Order number index

3030 050	198	3050 011/M	222	5010 037	161	5010 1386	151
3030 051	189, 199, 231, 237, 297, 303	3050 015	224	5010 041	167	5010 1388	151
3030 052	189, 199, 231, 237, 297, 303	3050 028	187, 197	5010 041/A	167	5010 140	168
3030 057	189, 199, 231, 237, 297, 303	3050 029	187, 197	5010 044	39, 168	5010 141	168
3030 058	189, 199, 231, 237, 297, 303	3060 056.1	212, 243	5010 052	165	5010 142	168
3030 059	189, 199, 231, 237, 297, 303	3060 121	123, 165, 216, 249	5010 053	165	5010 144	168
3030 060	189, 199, 231, 237, 297, 303	3060 124	216, 249	5010 054	165	5010 145	168
3030 061	189, 199, 231, 237, 297, 303	3060 126	216, 249	5010 055	165	5010 146	168
3030 062	189, 199, 231, 237, 297, 303	3071 137	265	5010 059	165	5010 147/LED	160
3030 064	198	3071 150.1	265	5010 060	165	5010 147/M	160
3030 065	198	3071 235	265	5010 061	165	5010 149	160
3030 066	198	400x600x220	214, 247	5010 068	163	5010 149.1	160
3030 067	198	4010 044	206	5010 068/10	163	5010 151	168
3030 068	198	4012 003	207, 208	5010 068/2	163	5010 1666	151
3030 069	198	4012 005	206, 208	5010 068/3	163	5010 1668	151
3030 070	198	4012 007	207, 208	5010 068/32	163	5010 1686	151
3030 071	198	4012 008	207, 208	5010 068/6	163	5010 1688	151
3030 086	236	4012 009	207, 208	5010 068/7	163	5010 1868	151
3030 090	198	4012 010	208	5010 068/9	163	5010 1888	151
3030 098	270	4012 011	207, 208	5010 071	165	5010 2066	151
3030 099	211, 270	4012 012	207, 208	5010 073	255	5010 2068	151
3030 100	211, 271	4012 013	207, 208	5010 074	165	5010 2081	151
3030 122	197	4012 014	207, 208	5010 078	163, 272	5010 2082	151
3030 122/M	23, 48, 237	4012 021	206, 208	5010 079	163, 221	5010 2086	151
3030 125	270	4020 002	205	5010 079/C	221	5010 2088	151
3030 135	209	4020 002/A	205	5010 079/I	221	5010 212	164
3030 144	198	4020 002/B	205	5010 084	256	5010 227/120	166
3030 145	198	4020 002/C	205	5010 089	165	5010 227/80	166
3030 146	198	4020 003	204	5010 090	165	5010 2281	151
3030 147	198	4020 003/A	204	5010 093	161	5010 2288	151
3030 148	198	4020 003/B	204	5010 104	216, 249, 268	5010 237/6	169
3030 149	198	4020 003/C	204	5010 105	216, 249, 268	5010 254/12	157
3030 150	198	4020 004	204	5010 106	216, 249, 268	5010 254/15	157
3030 151	198	4020 005	206	5010 107	216, 249, 268	5010 254/21	157
3030 152	197, 236	4020 011/C	204	5010 108	216, 249, 268	5010 254/6	157
3030 169	209	4020 013/C	204	5010 109	216, 249, 268	5010 254/9	157
3030 170	209	4020 016	205	5010 110	216, 249, 268	5010 254/L	166
3030 180	189, 199, 231, 237, 297, 303	4020 017	205	5010 111	216, 249, 268	5010 255/12	157
3030 181	189, 199, 231, 237, 297, 303	4020 018	205	5010 116	151, 168	5010 255/15	157
3030 200	199	4020 019	205	5010 1166	151	5010 255/21	157
3030 201	199	4020 037	204	5010 1168	151	5010 255/6	157
3030 202	199	4020 039	204	5010 117	168	5010 255/9	157
3030 203	199	4020 043	204	5010 118	151, 168	5010 256/12	157
3030 204	199	4020 047	204	5010 1188	151	5010 256/15	157
3031 032	197	4020 052	205	5010 120	168	5010 256/21	157
3050 001	206	4020 053	205	5010 121	168	5010 256/6	157
3050 002	223	4020 066	205	5010 123	168	5010 256/9	157
3050 004	223	4020 067	205	5010 124	168	5010 268	175
3050 005	223	4020 076	205	5010 125	168	5010 271	175
3050 006	223	4020 077	205	5010 126	168	5010 317	163
3050 007/H	222	4071 003	265	5010 127	168	5010 324	169
3050 007/M	222	5010 000	162	5010 128	168	5010 327	169
3050 008/H	222	5010 003	162	5010 129	168	5010 341	160
3050 008/M	222	5010 004	162	5010 131	164	5010 342	160
3050 009/H	222	5010 008	167	5010 131/W	164	5010 345	169
3050 009/M	222	5010 009	167	5010 132	164	5010 346	169
3050 010/H	222	5010 017	160	5010 1366	151	5010 347	169
3050 010/M	222	5010 018	160	5010 1368	151	5010 520	151, 152, 153, 154, 160,
3050 011/H	222	5010 025	166	5010 137	164	5010 525	165

Order number index

5010 7004	161	5015 255/12	156	5030 041/2,0,1	276	5050 012/SW	22, 37, 45
5010 7005	161	5015 255/15	156	5030 041/3,0,1	276	5050 500	38
5010 7007	162	5015 255/21	156	5030 041/5,0,1	276	5060 042	124
5010 7010	161	5015 255/6	156	5030 084/0,5	277	5060 044	124
5010 7012	161	5015 255/9	156	5030 084/1,0	277	5060 046	124
5010 7015	162	5015 256/12	156	5030 084/2,0	277	5060 047	124
5010 7017	162	5015 256/15	156	5030 084/3,0	277	5060 075	125
5010 7018	161	5015 256/21	156	5030 084/5,0	277	5060 076	125
5010 7019	161	5015 256/6	156	5031 082/0,5	277	5060 169	125
5010 7020	161	5015 256/9	156	5031 082/1,0	277	5060 170	125
5010 7021	161	5015 258/12	156	5031 082/2,0	277	5060 171	125
5010 7023.1	164	5015 258/15	156	5031 082/3,0	277	5060 172.1	125
5010 7024.1	164	5015 258/21	156	5031 082/5,0	277	5060 174	125
5010 7025.1	164	5015 258/6	156	5032 082/0,5	277	5060 216	124
5010 7026.1	164	5015 258/9	156	5032 082/1,0	277	5060 217	124
5010 7027	162	5016 254/12	159	5032 082/2,0	277	5060 220	124
5010 7028	161	5016 254/6	159	5032 082/3,0	277	5060 230	124
5010 7029	161	5016 254/9	159	5032 082/5,0	277	5061 048	131
5010 7030	161	5016 255/12	159	5033 082/0,5	277	5110 000	162
5010 968	151, 166	5016 255/6	159	5033 082/1,0	277	5122 015	39
5010 988	151	5016 255/9	159	5033 082/2,0	277	5123 015	39
5012 2066	152	5016 7002	162	5033 082/3,0	277	5124 015	39
5012 2081	152	5020 033	273	5033 082/5,0	277	5125 015	39
5012 2086	152	5020 064/L.1	309	5040 705	43	5700 0100012/24.1	92
5012 2088	152	5021 1361	153	5040 706	15, 38	5700 0100022/24.1	92
5012 254/12	158	5021 1368	153	5040 707	15, 38	5700 0112112/24.1	96
5012 254/15	158	5021 1382	153	5041 001	274	5700 0112115/24.1	98
5012 254/21	158	5021 1388	153	5041 002	274	5700 0112122/24.1	97
5012 254/6	158	5021 2061	153	5041 002/UP	274	5700 0112125/24.1	99
5012 254/9	158	5021 2068	153	5041 004	274	5700 0112129/24.1	94
5012 255/12	158	5021 2081	153	5041 005/UP	274	5700 0112139/24.1	95
5012 255/15	158	5021 2082	153	5041 007	274	5700 0112212/24.1	96
5012 255/21	158	5021 2088	153	5041 008	274	5700 0112215/24.1	98
5012 255/6	158	5021 2261	153	5041 008/UP	274	5700 0112222/24.1	97
5012 255/9	158	5021 2268	153	5041 010	274	5700 0112225/24.1	99
5012 256/12	158	5021 2281	153	5041 011	274	5700 0112229/24.1	94
5012 256/15	158	5021 2282	153	5041 011/UP	274	5700 0112231/24.1	100
5012 256/21	158	5021 2288	153	5041 013	274	5700 0112233/24.1	101
5012 256/6	158	5022 1361	154	5041 014	274	5700 0112239/24.1	95
5012 256/9	158	5022 1368	154	5041 014/UP	274	5700 0122312/24.1	96
5013 1188	150	5022 1382	154	5041 016	274	5700 0122322/24.1	97
5013 208/LB	166	5022 1388	154	5041 017/UP	274	5700 0122329/24.1	94
5013 2081	150	5022 2061	154	5041 019	275	5700 0122331/24.1	100
5013 2082	150	5022 2068	154	5041 020	275	5700 0122333/24.1	101
5013 2086	150	5022 2081	154	5041 041/L	274	5700 0122339/24.1	95
5013 2088	150	5022 2082	154	5041 042/L	274, 275	5700 0123312/24.1	96
5013 229	166	5022 2088	154	5041 042/L/UP	274	5700 0123322/24.1	97
5013 K007	167	5022 2261	154	5041 043/L	275	5700 0123329/24.1	94
5013 K009	167	5022 2268	154	5041 044/L	274	5700 0123331/24.1	100
5013 K015	167	5022 2281	154	5041 045/L	274, 275	5700 0123333/24.1	101
5013 K020	167	5022 2282	154	5041 045/L/UP	274	5700 0123349/24.1	95
5014 254/3	159	5022 2288	154	5041 046/L	275	5700 0124312/24.1	96
5014 254/4	159	5030 023/0,5,1	276	5041 071/L	274	5700 0124322/24.1	97
5014 254/6	159	5030 023/1,0,1	276	5041 072/L	274, 275	5700 0124329/24.1	94
5015 254/12	156	5030 023/2,0,1	276	5041 072/L/UP	274	5700 0124331/24.1	100
5015 254/15	156	5030 023/3,0,1	276	5041 073/L	275	5700 0124333/24.1	101
5015 254/21	156	5030 023/5,0,1	276	5041 176	38, 124	5700 0124349/24.1	95
5015 254/6	156	5030 041/0,5,1	276	5041 186	124	5701 0111129/24.1	102
5015 254/9	156	5030 041/1,0,1	276	5050 012/GR	22, 37	5701 0111131/24.1	103

Order number index

5701 0111212/24.1	102	57A1 0050	130	5812 5221000	135	6922 2910	42, 46
5701 0111222/24.1	102	57A2 0001	129	5812 5222000	135	6922 3011	20
5701 0111229/24.1	102	57A2 0011	129	5812 5992000	134	6922 3910	46
5701 0121312/24.1	102	57A2 0021	129	5812 5994000	134	6923 0100	23, 48
5701 0121322/24.1	102	57B0 0100000	123	5812 6221000	135	6923 0101	23, 48
5701 0121329/24.1	102	57B0 0100000/P	123	5812 6222000	135	6923 0200	23, 48
5701 0121349/24.1	102	57B0 0112112/9	120	5812 6992000	134	6923 1600	21, 47
5710 0100012/24.1	104	57B0 0112115/9	122	5812 6994000	134	6923 2000	21, 47
5710 0100022/24.1	104	57B0 0112122/12	121	600x1200x220	214, 247	6923 2600	21, 47
5710 0112112/24.1	108	57B0 0112122/6	120	600x1200x320	266	6923 2900	21, 47
5710 0112115/24.1	110	57B0 0112125/6	122	600x2000x400	215, 248, 267	6925 1022	18, 37
5710 0112122/24.1	109	57B0 0112129/6	118	600x600x220	214, 247	6925 1052	18, 37
5710 0112125/24.1	111	57B0 0112139/3	118	600x600x320	266	6929 0000	22
5710 0112129/24.1	106	57B0 0112139/6	119	600x800x220	214, 247	6929 0001	22
5710 0112133/24.1	113	57B0 0112212/9	120	600x800x320	266	6929 0008	22, 45
5710 0112139/24.1	107	57B0 0112215/9	122	6050 188	38	6929 3200	19, 45
5710 0112212/24.1	108	57B0 0112222/12	121	6050 189	38	6929 4000	18
5710 0112215/24.1	110	57B0 0112222/6	120	6050 190	38	6929 4001	18
5710 0112222/24.1	109	57B0 0112225/6	122	6060 020	124	6929 4002	18
5710 0112225/24.1	111	57B0 0112229/6	118	6100-01-20	250	6929 4003	18
5710 0112229/24.1	106	57B0 0112239/3	118	6100-01-40	250	6929 4005	18
5710 0112231/24.1	112	57B0 0112239/6	119	6100-01-60	250	6929 4008	18
5710 0112233/24.1	113	57B0 0122312/9	120	6100-02-20	250	6929 9000	16, 18
5710 0112239/24.1	107	57B0 0122322/12	121	6100-02-40	250	6931 0010	24
5710 0122312/24.1	108	57B0 0122322/6	120	6100-02-60	250	6931 0018	24
5710 0122322/24.1	109	57B0 0122329/6	118	6100-03-20	250	6931 0118	42, 49
5710 0122329/24.1	106	57B0 0122339/3	118	6100-03-40	250	6931 0200	24
5710 0122331/24.1	112	57B0 0122339/6	119	6100-03-60	250	6931 0208	24
5710 0122333/24.1	113	57B0 0123312/9	120	6100-04-20	250	6931 0210	24
5710 0122339/24.1	107	57B0 0123322/12	121	6100-04-40	250	6931 0218	24
5710 0123312/24.1	108	57B0 0123322/6	120	6100-04-60	250	6931 1210	24
5710 0123322/24.1	109	57B0 0123329/6	118	6103-01-60	251	6931 1218	24
5710 0123329/24.1	106	57B0 0123349/3	118	6103-02-60	251	6931 1318	42, 49
5710 0123331/24.1	112	57B0 0123349/6	119	6103-03-60	251	6931 1400	24
5710 0123333/24.1	113	57B0 0124312/9	120	6103-04-60	251	6931 1408	24
5710 0123349/24.1	107	57B0 0124322/12	121	6105-02-60	251	6931 1410	24
5710 0124312/24.1	108	57B0 0124322/6	120	6105-04-60	251	6931 1418	24
5710 0124322/24.1	109	57B0 0124329/6	118	6105-06-60	251	6932 0001	25
5710 0124329/24.1	106	57B0 0124349/3	118	6105-08-60	251	6932 0011	25
5710 0124331/24.1	112	57B0 0124349/6	119	6671 016.1	23, 48	6932 0101	50
5710 0124333/24.1	113	57B9 0000001	123	6920 0022.1	17	6932 0111	42, 50
5710 0124349/24.1	107	5811 0111000	136	6920 0052.1	17	6932 0201	25
5711 0111115/24.1	115	5811 0122000	135	6920 0052/P.1	17	6932 0211	25
5711 0111125/24.1	115	5811 2221000	135	6920 0110	42, 44	6932 1201	25
5711 0111129/24.1	114	5811 2222000	135	6920 0112	44	6932 1211	25
5711 0111212/24.1	114	5811 2551000	136	6920 0120	42, 44	6932 1301	50
5711 0111222/24.1	114	5811 2552000	136	6920 0122	44	6932 1311	42, 50
5711 0111225/24.1	115	5811 2992000	134	6920 1022.1	17	6932 1401	25
5711 0111229/24.1	114	5811 2994000	134	6920 1052.1	17	6932 1411	25
5711 0121312/24.1	114	5811 3221000	135	6920 4052.1	17	6941 2410	278
5711 0121322/24.1	114	5811 3222000	135	6921 9118.1	42, 45	6941 2418	278
5711 0121325/24.1	115	5811 3551000	136	6922 1011	20	6941 2430	279
5711 0121329/24.1	114	5811 3552000	136	6922 1111	46	6941 2438	279
5711 0121349/24.1	114	5811 3992000	134	6922 1910	46	6941 3410	278
57A1 0001	129	5811 3994000	134	6922 2011	20	6941 3418	278
57A1 0011	129	5812 4221000	135	6922 2020#10	20	6941 5410	278
57A1 0021	129	5812 4222000	135	6922 2111	46	6941 5418	278
57A1 0030	130	5812 4992000	134	6922 2222	22, 47	6941 5430	279
57A1 0040	130	5812 4994000	134	6922 2223	22, 47	6941 5438	279

Order number index

7025 112	308	7028 221	308	7501 3000/0,5B1A1	30	7501 3000/2,0D1A1	34
7025 113	308	7028 223	308	7501 3000/0,5B1A2	30	7501 3000/2,0D1A2	34
7025 115	308	7028 225	308	7501 3000/0,5B1B1	31	7501 3000/2,0D1B1	35
7025 121	308	7028 250	308	7501 3000/0,5B1C1	31	7501 3000/2,0D1C1	35
7025 123	308	7028 261	308	7501 3000/0,5C1A1	32	7501 3000/3,0	26
7025 125	308	7028 512	308	7501 3000/0,5C1A2	32	7501 3000/3,0A1A1	28
7025 150	308	7028 513	308	7501 3000/0,5C1B1	33	7501 3000/3,0A1A2	28
7025 161	308	7028 515	308	7501 3000/0,5C1C1	33	7501 3000/3,0A1B1	29
7025 212	308	7028 521	308	7501 3000/0,5D1A1	34	7501 3000/3,0A1C1	29
7025 213	308	7028 523	308	7501 3000/0,5D1A2	34	7501 3000/3,0B1A1	30
7025 215	308	7028 525	308	7501 3000/0,5D1B1	35	7501 3000/3,0B1A2	30
7025 221	308	7028 550	308	7501 3000/0,5D1C1	35	7501 3000/3,0B1B1	31
7025 223	308	7028 561	308	7501 3000/1,0	26	7501 3000/3,0B1C1	31
7025 225	308	7040 023	313	7501 3000/1,0A1A1	28	7501 3000/3,0C1A1	32
7025 250	308	7040 024	313	7501 3000/1,0A1A2	28	7501 3000/3,0C1A2	32
7025 261	308	7040 025	313	7501 3000/1,0A1B1	29	7501 3000/3,0C1B1	33
7025 512	308	7040 026	313	7501 3000/1,0A1C1	29	7501 3000/3,0C1C1	33
7025 513	308	7040 041	313	7501 3000/1,0B1A1	30	7501 3000/3,0D1A1	34
7025 515	308	7040 042	313	7501 3000/1,0B1A2	30	7501 3000/3,0D1A2	34
7025 521	308	7040 053	312	7501 3000/1,0B1B1	31	7501 3000/3,0D1B1	35
7025 523	308	7040 056	312	7501 3000/1,0B1C1	31	7501 3000/3,0D1C1	35
7025 525	308	7040 057	312	7501 3000/1,0C1A1	32	7501 3000/5,0	26
7025 550	308	7050 099	256	7501 3000/1,0C1A2	32	7501 3000/5,0A1A1	28
7025 561	308	7050 100.1	256	7501 3000/1,0C1B1	33	7501 3000/5,0A1A2	28
7026 112	308	7400 001	312	7501 3000/1,0C1C1	33	7501 3000/5,0A1B1	29
7026 113	308	7400 002	312	7501 3000/1,0D1A1	34	7501 3000/5,0A1C1	29
7026 115	308	7400 003	312	7501 3000/1,0D1A2	34	7501 3000/5,0B1A1	30
7026 121	308	7400 004	312	7501 3000/1,0D1B1	35	7501 3000/5,0B1A2	30
7026 123	308	7400 005	312	7501 3000/1,0D1C1	35	7501 3000/5,0B1B1	31
7026 125	308	7400 006	312	7501 3000/10,0	26	7501 3000/5,0B1C1	31
7026 150	308	7400 009	309, 314	7501 3000/10A1A1	28	7501 3000/5,0C1A1	32
7026 161	308	7400 010	309, 314	7501 3000/10A1A2	28	7501 3000/5,0C1A2	32
7026 212	308	7400 015	309, 314	7501 3000/10A1B1	29	7501 3000/5,0C1B1	33
7026 213	308	7400 210	309, 314	7501 3000/10A1C1	29	7501 3000/5,0C1C1	33
7026 215	308	7501 1000/0,5	27	7501 3000/10B1A1	30	7501 3000/5,0D1A1	34
7026 221	308	7501 1000/1,0	27	7501 3000/10B1A2	30	7501 3000/5,0D1A2	34
7026 223	308	7501 1000/10,0	27	7501 3000/10B1B1	31	7501 3000/5,0D1B1	35
7026 225	308	7501 1000/2,0	27	7501 3000/10B1C1	31	7501 3000/5,0D1C1	35
7026 250	308	7501 1000/3,0	27	7501 3000/10C1A1	32	7501 3000/7,0	26
7026 261	308	7501 1000/5,0	27	7501 3000/10C1A2	32	7502 0005/0,5	51
7026 512	308	7501 2000/0,5	26	7501 3000/10C1B1	33	7502 0005/1,0	42, 51
7026 513	308	7501 2000/0,5.1	26	7501 3000/10C1C1	33	7502 0005/10,0	51
7026 515	308	7501 2000/1,0	26	7501 3000/10D1A1	34	7502 0005/2,0	51
7026 521	308	7501 2000/1,0.1	26	7501 3000/10D1A2	34	7502 0005/3,0	51
7026 523	308	7501 2000/10,0	26	7501 3000/10D1B1	35	7502 0005/5,0	51
7026 525	308	7501 2000/10,0.1	26	7501 3000/10D1C1	35	7502 0005/7,5	51
7026 550	308	7501 2000/2,0	26	7501 3000/2,0	26	7502 1005/0,5	51
7026 561	308	7501 2000/2,0.1	26	7501 3000/2,0A1A1	28	7502 1005/1,0	51
7028 112	308	7501 2000/3,0	26	7501 3000/2,0A1A2	28	7502 1005/10,0	51
7028 113	308	7501 2000/3,0.1	26	7501 3000/2,0A1B1	29	7502 1005/2,0	51
7028 115	308	7501 2000/5,0	26	7501 3000/2,0A1C1	29	7502 1005/3,0	51
7028 121	308	7501 2000/5,0.1	26	7501 3000/2,0B1A1	30	7502 1005/5,0	51
7028 123	308	7501 2000/7,5	26	7501 3000/2,0B1A2	30	7502 1005/7,5	51
7028 125	308	7501 2000/7,5.1	26	7501 3000/2,0B1B1	31	7511 1000/0,5	27
7028 150	308	7501 3000/0,5	26	7501 3000/2,0B1C1	31	7511 1000/1,0	27
7028 161	308	7501 3000/0,5A1A1	28	7501 3000/2,0C1A1	32	7511 1000/10,0	27
7028 212	308	7501 3000/0,5A1A2	28	7501 3000/2,0C1A2	32	7511 1000/2,0	27
7028 213	308	7501 3000/0,5A1B1	29	7501 3000/2,0C1B1	33	7511 1000/3,0	27
7028 215	308	7501 3000/0,5A1C1	29	7501 3000/2,0C1C1	33	7511 1000/5,0	27

Order number index

7511 2000/0,5	26	7511 3000/10C1C1	33	7512 0005/10,0	51	7521 3000/1,0C1B1	33
7511 2000/0,5.1	26	7511 3000/10D1A1	34	7512 0005/2,0	51	7521 3000/1,0C1C1	33
7511 2000/1,0	26	7511 3000/10D1A2	34	7512 0005/3,0	51	7521 3000/1,0D1A1	34
7511 2000/1,0.1	26	7511 3000/10D1B1	35	7512 0005/5,0	51	7521 3000/1,0D1A2	34
7511 2000/10,0	26	7511 3000/10D1C1	35	7512 0005/7,5	51	7521 3000/1,0D1B1	35
7511 2000/10,0.1	26	7511 3000/2,0	26	7512 1005/0,5	51	7521 3000/1,0D1C1	35
7511 2000/2,0	26	7511 3000/2,0A1A1	28	7512 1005/1,0	51	7521 3000/10,0	26
7511 2000/2,0.1	26	7511 3000/2,0A1A2	28	7512 1005/10,0	51	7521 3000/10A1A1	28
7511 2000/3,0	26	7511 3000/2,0A1B1	29	7512 1005/2,0	51	7521 3000/10A1A2	28
7511 2000/3,0.1	26	7511 3000/2,0A1C1	29	7512 1005/3,0	51	7521 3000/10A1B1	29
7511 2000/5,0	26	7511 3000/2,0B1A1	30	7512 1005/5,0	51	7521 3000/10A1C1	29
7511 2000/5,0.1	26	7511 3000/2,0B1A2	30	7512 1005/7,5	51	7521 3000/10B1A1	30
7511 2000/7,5.1	26	7511 3000/2,0B1B1	31	7521 1000/0,5	27	7521 3000/10B1A2	30
7511 3000/0,5	26	7511 3000/2,0B1C1	31	7521 1000/1,0	27	7521 3000/10B1B1	31
7511 3000/0,5A1A1	28	7511 3000/2,0C1A1	32	7521 1000/10,0	27	7521 3000/10B1C1	31
7511 3000/0,5A1A2	28	7511 3000/2,0C1A2	32	7521 1000/2,0	27	7521 3000/10C1A1	32
7511 3000/0,5A1B1	29	7511 3000/2,0C1B1	33	7521 1000/3,0	27	7521 3000/10C1A2	32
7511 3000/0,5A1C1	29	7511 3000/2,0C1C1	33	7521 1000/5,0	27	7521 3000/10C1B1	33
7511 3000/0,5B1A1	30	7511 3000/2,0D1A1	34	7521 2000/0,5	26	7521 3000/10C1C1	33
7511 3000/0,5B1A2	30	7511 3000/2,0D1A2	34	7521 2000/0,5.1	26	7521 3000/10D1A1	34
7511 3000/0,5B1B1	31	7511 3000/2,0D1B1	35	7521 2000/1,0	26	7521 3000/10D1A2	34
7511 3000/0,5B1C1	31	7511 3000/2,0D1C1	35	7521 2000/1,0.1	26	7521 3000/10D1B1	35
7511 3000/0,5C1A1	32	7511 3000/3,0	26	7521 2000/10,0	26	7521 3000/10D1C1	35
7511 3000/0,5C1A2	32	7511 3000/3,0A1A1	28	7521 2000/10,0.1	26	7521 3000/2,0	26
7511 3000/0,5C1B1	33	7511 3000/3,0A1A2	28	7521 2000/2,0	26	7521 3000/2,0A1A1	28
7511 3000/0,5C1C1	33	7511 3000/3,0A1B1	29	7521 2000/2,0.1	26	7521 3000/2,0A1A2	28
7511 3000/0,5D1A1	34	7511 3000/3,0A1C1	29	7521 2000/3,0	26	7521 3000/2,0A1B1	29
7511 3000/0,5D1A2	34	7511 3000/3,0B1A1	30	7521 2000/3,0.1	26	7521 3000/2,0A1C1	29
7511 3000/0,5D1B1	35	7511 3000/3,0B1A2	30	7521 2000/5,0	26	7521 3000/2,0B1A1	30
7511 3000/0,5D1C1	35	7511 3000/3,0B1B1	31	7521 2000/5,0.1	26	7521 3000/2,0B1A2	30
7511 3000/1,0	26	7511 3000/3,0B1C1	31	7521 2000/7,5.1	26	7521 3000/2,0B1B1	31
7511 3000/1,0A1A1	28	7511 3000/3,0C1A1	32	7521 3000/0,5	26	7521 3000/2,0B1C1	31
7511 3000/1,0A1A2	28	7511 3000/3,0C1A2	32	7521 3000/0,5A1A1	28	7521 3000/2,0C1A1	32
7511 3000/1,0A1B1	29	7511 3000/3,0C1B1	33	7521 3000/0,5A1A2	28	7521 3000/2,0C1A2	32
7511 3000/1,0A1C1	29	7511 3000/3,0C1C1	33	7521 3000/0,5A1B1	29	7521 3000/2,0C1B1	33
7511 3000/1,0B1A1	30	7511 3000/3,0D1A1	34	7521 3000/0,5A1C1	29	7521 3000/2,0C1C1	33
7511 3000/1,0B1A2	30	7511 3000/3,0D1A2	34	7521 3000/0,5B1A1	30	7521 3000/2,0D1A1	34
7511 3000/1,0B1B1	31	7511 3000/3,0D1B1	35	7521 3000/0,5B1A2	30	7521 3000/2,0D1A2	34
7511 3000/1,0B1C1	31	7511 3000/3,0D1C1	35	7521 3000/0,5B1B1	31	7521 3000/2,0D1B1	35
7511 3000/1,0C1A1	32	7511 3000/5,0	26	7521 3000/0,5B1C1	31	7521 3000/2,0D1C1	35
7511 3000/1,0C1A2	32	7511 3000/5,0A1A1	28	7521 3000/0,5C1A1	32	7521 3000/3,0	26
7511 3000/1,0C1B1	33	7511 3000/5,0A1A2	28	7521 3000/0,5C1A2	32	7521 3000/3,0A1A1	28
7511 3000/1,0C1C1	33	7511 3000/5,0A1B1	29	7521 3000/0,5C1B1	33	7521 3000/3,0A1A2	28
7511 3000/1,0D1A1	34	7511 3000/5,0A1C1	29	7521 3000/0,5C1C1	33	7521 3000/3,0A1B1	29
7511 3000/1,0D1A2	34	7511 3000/5,0B1A1	30	7521 3000/0,5D1A1	34	7521 3000/3,0A1C1	29
7511 3000/1,0D1B1	35	7511 3000/5,0B1A2	30	7521 3000/0,5D1A2	34	7521 3000/3,0B1A1	30
7511 3000/1,0D1C1	35	7511 3000/5,0B1B1	31	7521 3000/0,5D1B1	35	7521 3000/3,0B1A2	30
7511 3000/10,0	26	7511 3000/5,0B1C1	31	7521 3000/0,5D1C1	35	7521 3000/3,0B1B1	31
7511 3000/10A1A1	28	7511 3000/5,0C1A1	32	7521 3000/1,0	26	7521 3000/3,0B1C1	31
7511 3000/10A1A2	28	7511 3000/5,0C1A2	32	7521 3000/1,0A1A1	28	7521 3000/3,0C1A1	32
7511 3000/10A1B1	29	7511 3000/5,0C1B1	33	7521 3000/1,0A1A2	28	7521 3000/3,0C1A2	32
7511 3000/10A1C1	29	7511 3000/5,0C1C1	33	7521 3000/1,0A1B1	29	7521 3000/3,0C1B1	33
7511 3000/10B1A1	30	7511 3000/5,0D1A1	34	7521 3000/1,0A1C1	29	7521 3000/3,0C1C1	33
7511 3000/10B1A2	30	7511 3000/5,0D1A2	34	7521 3000/1,0B1A1	30	7521 3000/3,0D1A1	34
7511 3000/10B1B1	31	7511 3000/5,0D1B1	35	7521 3000/1,0B1A2	30	7521 3000/3,0D1A2	34
7511 3000/10B1C1	31	7511 3000/5,0D1C1	35	7521 3000/1,0B1B1	31	7521 3000/3,0D1B1	35
7511 3000/10C1A1	32	7511 3000/7,0	26	7521 3000/1,0B1C1	31	7521 3000/3,0D1C1	35
7511 3000/10C1A2	32	7512 0005/0,5	51	7521 3000/1,0C1A1	32	7521 3000/5,0	26
7511 3000/10C1B1	33	7512 0005/1,0	51	7521 3000/1,0C1A2	32	7521 3000/5,0A1A1	28

Order number index

7521 3000/5,0A1B1	29	7531 3000/0,5C1B1	33	7531 3000/3,0A1B1	29	7551 2000/2,0.1	26
7521 3000/5,0A1C1	29	7531 3000/0,5C1C1	33	7531 3000/3,0A1C1	29	7551 2000/3,0	26
7521 3000/5,0B1A1	30	7531 3000/0,5D1A1	34	7531 3000/3,0B1A1	30	7551 2000/3,0.1	26
7521 3000/5,0B1A2	30	7531 3000/0,5D1A2	34	7531 3000/3,0B1A2	30	7551 2000/5,0	26
7521 3000/5,0B1B1	31	7531 3000/0,5D1B1	35	7531 3000/3,0B1B1	31	7551 2000/5,0.1	26
7521 3000/5,0B1C1	31	7531 3000/0,5D1C1	35	7531 3000/3,0B1C1	31	7551 2000/7,5.1	26
7521 3000/5,0C1A1	32	7531 3000/1,0	26	7531 3000/3,0C1A1	32	7551 3000/0,5	26
7521 3000/5,0C1A2	32	7531 3000/1,0A1A1	28	7531 3000/3,0C1A2	32	7551 3000/0,5A1A1	28
7521 3000/5,0C1B1	33	7531 3000/1,0A1A2	28	7531 3000/3,0C1B1	33	7551 3000/0,5A1A2	28
7521 3000/5,0C1C1	33	7531 3000/1,0A1B1	29	7531 3000/3,0C1C1	33	7551 3000/0,5A1B1	29
7521 3000/5,0D1A1	34	7531 3000/1,0A1C1	29	7531 3000/3,0D1A1	34	7551 3000/0,5A1C1	29
7521 3000/5,0D1A2	34	7531 3000/1,0B1A1	30	7531 3000/3,0D1A2	34	7551 3000/0,5B1A1	30
7521 3000/5,0D1B1	35	7531 3000/1,0B1A2	30	7531 3000/3,0D1B1	35	7551 3000/0,5B1A2	30
7521 3000/5,0D1C1	35	7531 3000/1,0B1B1	31	7531 3000/3,0D1C1	35	7551 3000/0,5B1B1	31
7521 3000/7,0	26	7531 3000/1,0B1C1	31	7531 3000/5,0	26	7551 3000/0,5B1C1	31
7522 0005/0,5	51	7531 3000/1,0C1A1	32	7531 3000/5,0A1A1	28	7551 3000/0,5C1A1	32
7522 0005/1,0	51	7531 3000/1,0C1A2	32	7531 3000/5,0A1A2	28	7551 3000/0,5C1A2	32
7522 0005/10,0	51	7531 3000/1,0C1B1	33	7531 3000/5,0A1B1	29	7551 3000/0,5C1B1	33
7522 0005/2,0	51	7531 3000/1,0C1C1	33	7531 3000/5,0A1C1	29	7551 3000/0,5C1C1	33
7522 0005/3,0	51	7531 3000/1,0D1A1	34	7531 3000/5,0B1A1	30	7551 3000/0,5D1A1	34
7522 0005/5,0	51	7531 3000/1,0D1A2	34	7531 3000/5,0B1A2	30	7551 3000/0,5D1A2	34
7522 0005/7,5	51	7531 3000/1,0D1B1	35	7531 3000/5,0B1B1	31	7551 3000/0,5D1B1	35
7522 1005/0,5	51	7531 3000/1,0D1C1	35	7531 3000/5,0B1C1	31	7551 3000/0,5D1C1	35
7522 1005/1,0	51	7531 3000/10A1A1	28	7531 3000/5,0C1A1	32	7551 3000/1,0	26
7522 1005/10,0	51	7531 3000/10A1A2	28	7531 3000/5,0C1A2	32	7551 3000/1,0A1A1	28
7522 1005/2,0	51	7531 3000/10A1B1	29	7531 3000/5,0C1B1	33	7551 3000/1,0A1A2	28
7522 1005/3,0	51	7531 3000/10A1C1	29	7531 3000/5,0C1C1	33	7551 3000/1,0A1B1	29
7522 1005/5,0	51	7531 3000/10B1A1	30	7531 3000/5,0D1A1	34	7551 3000/1,0A1C1	29
7522 1005/7,5	51	7531 3000/10B1A2	30	7531 3000/5,0D1A2	34	7551 3000/1,0B1A1	30
7531 1000/0,5	27	7531 3000/10B1B1	31	7531 3000/5,0D1B1	35	7551 3000/1,0B1A2	30
7531 1000/1,0	27	7531 3000/10B1C1	31	7531 3000/5,0D1C1	35	7551 3000/1,0B1B1	31
7531 1000/10,0	27	7531 3000/10C1A1	32	7531 3000/7,0	26	7551 3000/1,0B1C1	31
7531 1000/2,0	27	7531 3000/10C1A2	32	7532 0005/0,5	51	7551 3000/1,0C1A1	32
7531 1000/3,0	27	7531 3000/10C1B1	33	7532 0005/1,0	51	7551 3000/1,0C1A2	32
7531 1000/5,0	27	7531 3000/10C1C1	33	7532 0005/10,0	51	7551 3000/1,0C1B1	33
7531 2000/0,5	26	7531 3000/10D1A1	34	7532 0005/2,0	51	7551 3000/1,0C1C1	33
7531 2000/0,5.1	26	7531 3000/10D1A2	34	7532 0005/3,0	51	7551 3000/1,0D1A1	34
7531 2000/1,0	26	7531 3000/10D1B1	35	7532 0005/5,0	51	7551 3000/1,0D1A2	34
7531 2000/1,0.1	26	7531 3000/10D1C1	35	7532 0005/7,5	51	7551 3000/1,0D1B1	35
7531 2000/10,0	26	7531 3000/2,0	26	7532 1005/0,5	51	7551 3000/1,0D1C1	35
7531 2000/10,0.1	26	7531 3000/2,0A1A1	28	7532 1005/1,0	51	7551 3000/10,0	26
7531 2000/2,0	26	7531 3000/2,0A1A2	28	7532 1005/10,0	51	7551 3000/10A1A1	28
7531 2000/2,0.1	26	7531 3000/2,0A1B1	29	7532 1005/2,0	51	7551 3000/10A1A2	28
7531 2000/3,0	26	7531 3000/2,0A1C1	29	7532 1005/3,0	51	7551 3000/10A1B1	29
7531 2000/3,0.1	26	7531 3000/2,0B1A1	30	7532 1005/5,0	51	7551 3000/10A1C1	29
7531 2000/5,0	26	7531 3000/2,0B1A2	30	7532 1005/7,5	51	7551 3000/10B1A1	30
7531 2000/5,0.1	26	7531 3000/2,0B1B1	31	7551 1000/0,5	27	7551 3000/10B1A2	30
7531 2000/7,5.1	26	7531 3000/2,0B1C1	31	7551 1000/1,0	27	7551 3000/10B1B1	31
7531 3000/0,5	26	7531 3000/2,0C1A1	32	7551 1000/10,0	27	7551 3000/10B1C1	31
7531 3000/0,5A1A1	28	7531 3000/2,0C1A2	32	7551 1000/2,0	27	7551 3000/10C1A1	32
7531 3000/0,5A1A2	28	7531 3000/2,0C1B1	33	7551 1000/3,0	27	7551 3000/10C1A2	32
7531 3000/0,5A1B1	29	7531 3000/2,0C1C1	33	7551 1000/5,0	27	7551 3000/10C1B1	33
7531 3000/0,5A1C1	29	7531 3000/2,0D1A1	34	7551 2000/0,5	26	7551 3000/10C1C1	33
7531 3000/0,5B1A1	30	7531 3000/2,0D1A2	34	7551 2000/0,5.1	26	7551 3000/10D1A1	34
7531 3000/0,5B1A2	30	7531 3000/2,0D1B1	35	7551 2000/1,0	26	7551 3000/10D1A2	34
7531 3000/0,5B1B1	31	7531 3000/2,0D1C1	35	7551 2000/1,0.1	26	7551 3000/10D1B1	35
7531 3000/0,5B1C1	31	7531 3000/3,0	26	7551 2000/10,0	26	7551 3000/10D1C1	35
7531 3000/0,5C1A1	32	7531 3000/3,0A1A1	28	7551 2000/10,0.1	26	7551 3000/2,0	26
7531 3000/0,5C1A2	32	7531 3000/3,0A1A2	28	7551 2000/2,0	26	7551 3000/2,0A1A1	28

Order number index

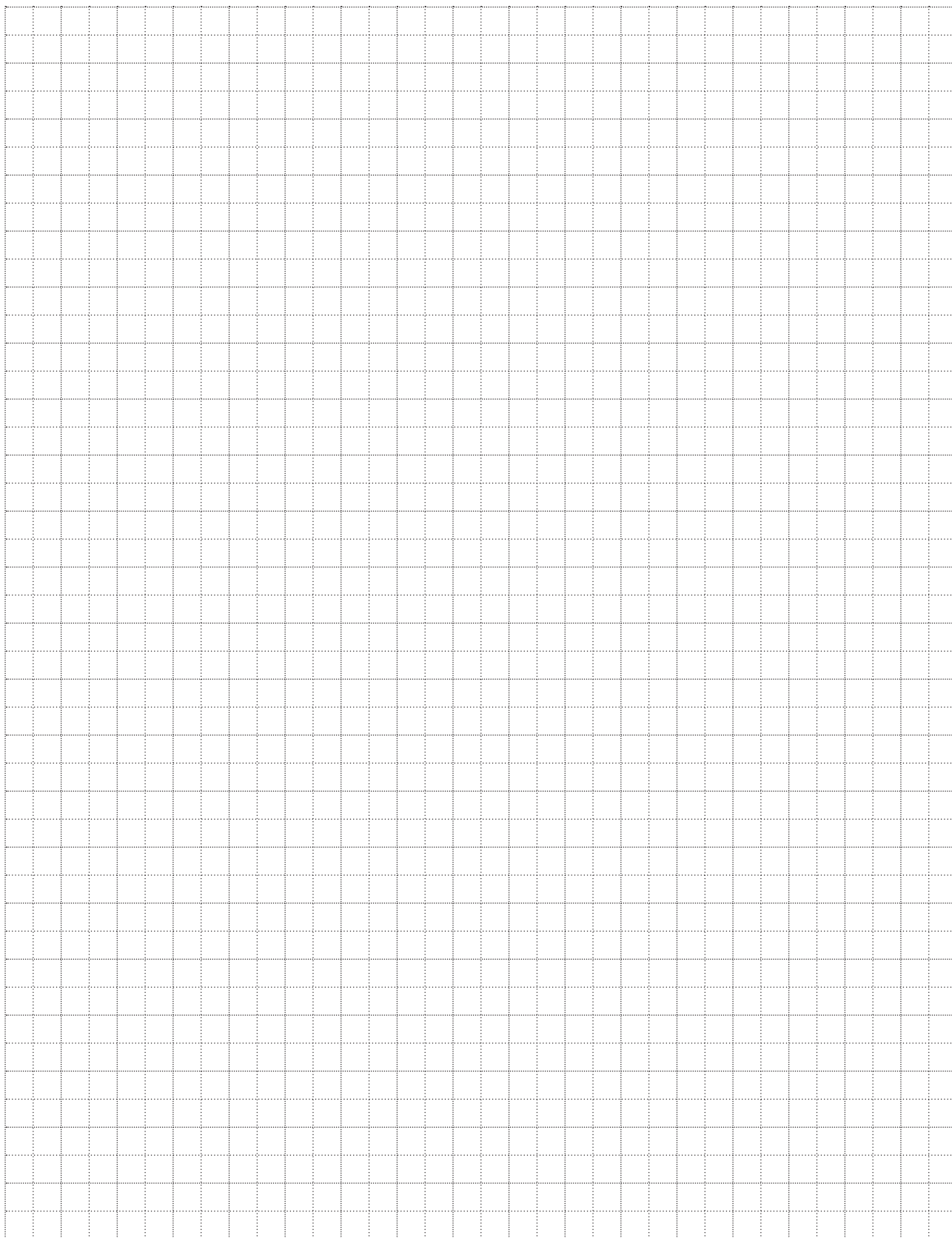
7551 3000/2,0A1A2	28	7552 1005/10,0	51	9351 1520	15	F028D0000	77
7551 3000/2,0A1B1	29	7552 1005/2,0	51	9352 1520	15	F028D1212/XX	86
7551 3000/2,0A1C1	29	7552 1005/3,0	51	C-5010 077	163	F028D2222/XX	85
7551 3000/2,0B1A1	30	7552 1005/5,0	51	C-5010 078	163	F028D9292/XX	85
7551 3000/2,0B1A2	30	7552 1005/7,5	51	C-5010 079	163	F028E0000	77
7551 3000/2,0B1B1	31	7581 3000/0,5	26	C-5010 256	272	F028E1212/XX	86
7551 3000/2,0B1C1	31	7581 3000/1,0	26	C-5010 257	272	F028E2222/XX	85
7551 3000/2,0C1A1	32	7581 3000/10,0	26	C-5010 259	273	F028E9292/XX	85
7551 3000/2,0C1A2	32	7581 3000/2,0	26	C-5010 260	273	F028F0000	77
7551 3000/2,0C1B1	33	7581 3000/3,0	26	C-5010 261	172	F028F1212/XX	86
7551 3000/2,0C1C1	33	7581 3000/5,0	26	C-5010 264	172	F028F2222/XX	85
7551 3000/2,0D1A1	34	7581 3000/7,0	26	C-5010 265	173	F028F9292/XX	85
7551 3000/2,0D1A2	34	7591 3000/0,5	26	C-5010 270	174	F038B0000	77
7551 3000/2,0D1B1	35	7591 3000/1,0	26	C-5010 272	173	F038B1212/XX	86
7551 3000/2,0D1C1	35	7591 3000/10,0	26	C-5010 273	175	F038B2222/XX	85
7551 3000/3,0	26	7591 3000/2,0	26	C-5010 274	174	F038B5151/1,0	86
7551 3000/3,0A1A1	28	7591 3000/3,0	26	C-5010 277	272	F038B9292/XX	85
7551 3000/3,0A1A2	28	7591 3000/5,0	26	C-5010 278	272	F038D0000	77
7551 3000/3,0A1B1	29	7591 3000/7,0	26	C-5016 079	163	F038D1212/XX	86
7551 3000/3,0A1C1	29	800x1300x220	214, 247	C-5016 256	273	F038D2222/XX	85
7551 3000/3,0B1A1	30	800x1300x320	266	DC100 001	59	F038D9292/XX	85
7551 3000/3,0B1A2	30	800x2000x400	215, 248, 267	DC100 002	59	F038E0000	77
7551 3000/3,0B1B1	31	8010 049	147	DC100 005/XX	58	F038E1212/XX	86
7551 3000/3,0B1C1	31	8010 050	145	DC100 006/XX	58	F038E9292/XX	85
7551 3000/3,0C1A1	32	8010 051	146	DC200 001/XX	60	F038F0000	77
7551 3000/3,0C1A2	32	8010 052	146	DC200 002/XX	60	F038F1212/XX	86
7551 3000/3,0C1B1	33	8010 054	144	DC300 001/12	62	F038F2222/XX	85
7551 3000/3,0C1C1	33	8010 055	147	DC300 001/24	62	F038F9292/XX	85
7551 3000/3,0D1A1	34	8010 056	147	DC300 003	62	F058B0000	75
7551 3000/3,0D1A2	34	8010 057	144	DC300 004	62	F058D0000	75
7551 3000/3,0D1B1	35	8010 097	146	DC400 001/1,0	63	F058E0000	75
7551 3000/3,0D1C1	35	8010 109	18	DC400 001/10,0	63	F058F0000	75
7551 3000/5,0	26	8010 111	44	DC400 001/20,0	63	F068B1212/XX	86
7551 3000/5,0A1A1	28	8010 131	144	DC400 001/30,0	63	F068B2222/XX	85
7551 3000/5,0A1A2	28	8010 132	144	DC500 001/1,0	63	F068B5151/1,0	86
7551 3000/5,0A1B1	29	8010 133	144	DC500 001/10,0	63	F068B9292/XX	85
7551 3000/5,0A1C1	29	8010 134	144	DC500 001/20,0	63	F068D1212/XX	86
7551 3000/5,0B1A1	30	8010 135	144	DC500 001/30,0	63	F068D2222/XX	85
7551 3000/5,0B1A2	30	8010 136	144	F008B0000	77	F068D9292/XX	85
7551 3000/5,0B1B1	31	8010 139	145	F008B1212/XX	86	F068E1212/XX	86
7551 3000/5,0B1C1	31	8010 140	145	F008B2222/XX	85	F068E2222/XX	85
7551 3000/5,0C1A1	32	8406 1052/XX	65	F008B5151/XX	86	F068E9292/XX	85
7551 3000/5,0C1A2	32	8406 1152/XX	65	F008B9292/XX	85	F068F1212/XX	86
7551 3000/5,0C1B1	33	8406 1252/XX	65	F008D0000	77	F068F2222/XX	85
7551 3000/5,0C1C1	33	8406 1552/XX	65	F008D1212/XX	86	F068F9292/XX	85
7551 3000/5,0D1A1	34	8408 1052/XX	65	F008D2222/XX	85	F078B0000	75
7551 3000/5,0D1A2	34	8408 1152/XX	65	F008D9292/XX	85	F078D0000	75
7551 3000/5,0D1B1	35	8408 1252/XX	65	F008E0000	77	F078E0000	75
7551 3000/5,0D1C1	35	8408 1552/XX	65	F008E1212/XX	86	F078F0000	75
7551 3000/7,0	26	9301 1030	15	F008E2222/XX	85	F108B0000	79
7552 0005/0,5	51	9301 1130	15	F008F0000	77	F108D0000	79
7552 0005/1,0	51	9301 1220	15	F008F1212/XX	86	F108E0000	79
7552 0005/10,0	51	9301 1520.1	15	F008F2222/XX	85	F108F0000	79
7552 0005/2,0	51	9302 1030	15	F008F9292/XX	85	F118B0000	79
7552 0005/3,0	51	9302 1130	15	F028B0000	77	F118D0000	79
7552 0005/5,0	51	9302 1220	15	F028B1212/XX	86	F118E0000	79
7552 0005/7,5	51	9302 1520.1	15	F028B2222/XX	85	F118F0000	79
7552 1005/0,5	51	9321 0145/B	42, 43	F028B5151/1,0	86	F128B0000	79
7552 1005/1,0	51	9321 0335/B	42, 43	F028B9292/XX	85	F128D0000	79

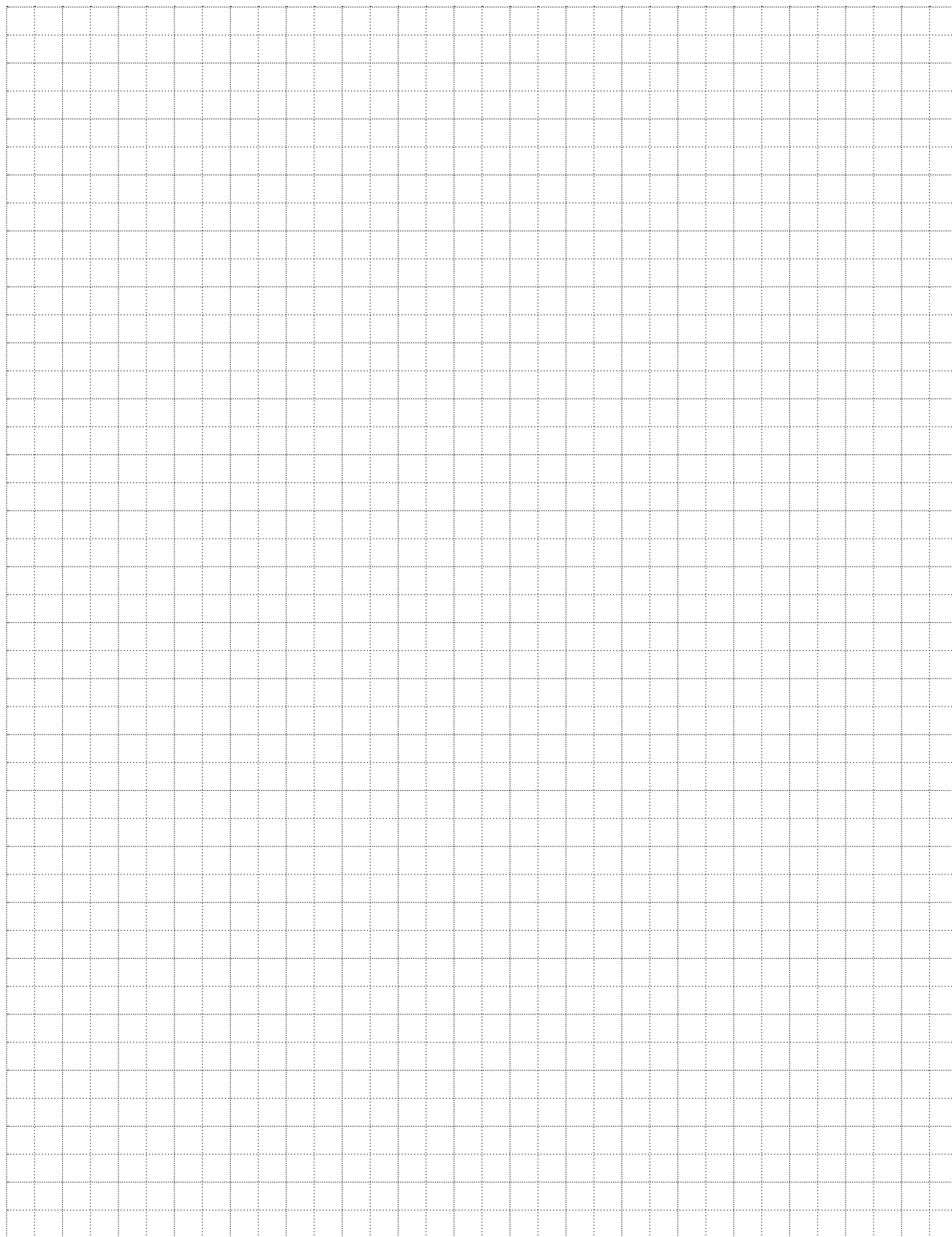
Order number index

F128E0000	79	F363E9292/XX	81	F771B9292/XX	89	F910E2200/2,0	138
F128F0000	79	F363F2222/XX	81	F774F2222/XX	89	F910E5200/2,0	139
F138B0000	79	F363F9292/XX	81	F774F9292/XX	89	F910E9200/2,0	138
F138D0000	79	F478B0000	75	F776E1212/XX	90	F910F1200/2,0	139
F138E0000	79	F478D0000	75	F776E2222/XX	89	F910F2200/2,0	138
F138F0000	79	F478E0000	75	F776E9292/XX	89	F910F5200/2,0	139
F303B0000	73	F478F0000	75	F777D1212/XX	90	F910F9200/2,0	138
F303B1212/XX	82	F573B0000	71	F777D2222/XX	89	F953B0000	71
F303B2222/XX	81	F573D0000	71	F777D9292/XX	89	F953D0000	71
F303B5151/XX	82	F573E0000	71	F781B1212/XX	90	F953E0000	71
F303B9292/XX	81	F573F0000	71	F781B2222/XX	89	F953F0000	71
F303D0000	73	F703B0000	73	F781B5151/XX	90	F973B0000	71
F303D1212/XX	82	F703D0000	73	F781B9292/XX	89	F973D0000	71
F303D2222/XX	81	F703E0000	73	F784F2222/XX	89	F973E0000	71
F303D9292/1,0	81	F703F0000	73	F784F9292/XX	89	L-5010 968	166
F303E0000	73	F711B1212/XX	142	F786E1212/XX	90	L-5010 971	166
F303E1212/XX	82	F711B2121/XX	141	F786E2222/XX	89	L-5012 250	166
F303E2222/XX	81	F711B2222/XX	141	F786E9292/XX	89	VB2121/1000	143
F303E9292/XX	81	F711B5151/XX	142	F787D1212/XX	90	VB2121/550	143
F303F0000	73	F711B5252/XX	142	F787D2222/XX	89	VB5151/1000	143
F303F1212/XX	82	F711B9191/XX	141	F787D9292/XX	89	VB5151/550	143
F303F2222/XX	81	F711B9292/XX	141	F791B1212/XX	90	VB9191/1000	143
F303F9292/XX	81	F714F1212/XX	142	F791B2222/XX	89	VB9191/550	143
F323B0000	73	F714F2222/XX	141	F791B5151/XX	90	VD2121/150	143
F323B2222/XX	81	F714F5252/XX	142	F791B9292/XX	89	VD2121/500	143
F323B5151/XX	82	F714F9292/XX	141	F794F2222/XX	89	VD5151/150	143
F323B9292/XX	81	F716E1212/XX	142	F794F9292/XX	89	VD5151/500	143
F323D0000	73	F716E2222/XX	141	F796E1212/XX	90	VD9191/150	143
F323D2222/XX	81	F716E5252/XX	142	F796E2222/XX	89	VD9191/500	143
F323D9292/XX	81	F716E9292/XX	141	F796E9292/XX	89	VE2121/150	143
F323E0000	73	F717D1212/XX	142	F797D1212/XX	90	VE2121/500	143
F323E2222/XX	81	F717D2222/XX	141	F797D2222/XX	89	VE5151/150	143
F323E9292/XX	81	F717D5252/XX	142	F808B0000	77	VE5151/500	143
F323F0000	73	F717D9292/XX	141	F808D0000	77	VE9191/150	143
F323F2222/XX	81	F723B0000	73	F808E0000	77	VE9191/500	143
F323F9292/XX	81	F723D0000	73	F808F0000	77	VF2121/150	143
F333B0000	73	F723E0000	73	F828B0000	77	VF2121/500	143
F333B2222/XX	81	F723F0000	73	F828D0000	77	VF5151/150	143
F333B5151/XX	82	F733B0000	73	F828F0000	77	VF5151/500	143
F333B9292/XX	81	F733D0000	73	F838B0000	77	VF9191/150	143
F333D0000	73	F733E0000	73	F838D0000	77	VF9191/500	143
F333D2222/XX	81	F733F0000	73	F838E0000	77		
F333D9292/XX	81	F751B1212/XX	90	F838F0000	77		
F333E0000	73	F751B2222/XX	89	F858B0000	75		
F333E2222/XX	81	F751B5151/XX	90	F858D0000	75		
F333E9292/XX	81	F751B9292/XX	89	F858E0000	75		
F333F0000	73	F754F1212/XX	90	F858F0000	75		
F333F2222/XX	81	F754F2222/XX	89	F910B1200/2,0	139		
F333F9292/XX	81	F754F5151/XX	90	F910B2100/2,0	138		
F353B0000	71	F754F9292/XX	89	F910B2200/2,0	138		
F353D0000	71	F756E1212/XX	90	F910B5100/2,0	139		
F353E0000	71	F756E2222/XX	89	F910B5200/2,0	139		
F353F0000	71	F756E9292/XX	89	F910B9100/2,0	138		
F363B2222/XX	81	F757D1212/XX	90	F910B9200/2,0	138		
F363B5151/1,0	82	F757D2222/XX	89	F910D1200/2,0	139		
F363B9292/XX	81	F757D9292/XX	89	F910D2200/2,0	138		
F363D2222/XX	81	F771B1212/XX	90	F910D5200/2,0	139		
F363D9292/XX	81	F771B2222/XX	89	F910D9200/2,0	138		
F363E2222/XX	81	F771B5151/XX	90	F910E1200/2,0	139		

Notes

Make plans with us





General Terms & Conditions

Valid as at February 2016 - CobiNet Fernmelde- und Datennetzkomponenten GmbH (hereinafter referred to as CobiNet)

§ 1 Scope, conclusion of contract

1. These General Terms and Conditions apply to all quotations, deliveries and services provided to companies under the terms of Section 14 of the German Civil Code, or to legal entities under public law or special funds under public law (customers). The same applies to all future business relationships. Deviating terms and conditions of our contracting partners are not effectively agreed.
2. Any deviating agreements must be made in writing. This also applies to an agreement to waive the requirement for the written form.
3. CobiNet reserves the copyrights to the cost estimates, quotations, drawings and other documents it has produced where these contain calculations or graphic representations. If no contract is concluded, these documents must be returned to us on request.
4. Quotations from CobiNet are subject to change and non-binding. Quotations submitted to us require our written confirmation. No contract shall be concluded without this confirmation.
5. For the purpose of making a decision regarding the establishment, implementation or termination of the contractual relationship, we ascertain or use probability values, which are calculated based on address data among other information.

§ 2 Delivery

1. Products are dispatched at the risk and cost of the recipient from the moment that they are prepared for dispatch.
2. Partial deliveries are permissible.
3. Confirmed delivery deadlines shall be extended accordingly if the customer fails to cooperate as necessary.
4. The customer is not entitled to refuse to accept goods or services as a result of immaterial defects. The customer is obliged to check the goods promptly after receipt and to report any defects immediately. Customers who exceed the reporting deadline of two weeks following receipt of goods shall lose their right to report defects, unless said defects are concealed.
5. Defective delivery items must be returned to us at the risk and cost of the customer. If the defect report proves justified, the customer shall be reimbursed the standard costs for the return.

§ 3 Payment

1. Prices are inclusive of packaging but exclusive of shipping, setup and assembly costs. Statutory VAT is calculated separately at the rate applicable at the time of delivery.
2. The invoice amount becomes due 30 days after the invoice date. If payment is made within 14 days, the customer is entitled to deduct a discount of 2%.
3. The customer is entitled to off-setting rights only in the event of claims that are determined as legally valid, undisputed or acknowledged, and to rights of retention only if its counterclaim is based on the same contractual relationship.
4. For order values below EUR 150.00, we charge a EUR 15.00 minimum quantity surcharge.
5. We charge a EUR 15.00 processing fee for every warning. Default interest of 12% per year is due for the duration of the delay.

§ 4 Reservation of title

1. All delivery items remain our property until all claims made by us against the customer and arising from the transaction have been settled in full.
2. For the duration of the reservation of title, the customer must not pledge the goods or transfer them as security. The customer must ensure that the goods are not captured by blanket assignment or by assignment as security by its warehouse.
3. The customer is permitted to resell the goods as part of the normal course of business, provided that it has received payment from its own customer, or it is supplying the goods with reservation of title. Any claims made by the customer to its own customer as a result of reselling are hereby passed onto us, provided that these claims have not been paid in full. The customer is obliged to provide appropriate information on our request. In the event of default, we are entitled to disclose the assignment as security to the customer's customer and to request that payment be made to us.
4. We can demand the return of goods from the customer if there is a valid reason for this on the part of the customer (e.g. default of payment, suspended payment, application for the institution of insolvency proceedings, protests of bills, or indications of insolvency or over-indebtedness). In this case, we shall retain the delivery items until payment has been made in full. If this does not happen within a reasonable period of time, we are entitled to withdraw from the contract.
5. If the delivered goods are processed, mixed or combined, we are entitled to partial ownership of the new items at a proportion that corresponds to the proportion of the value of the processed goods under reservation of title in relation to the total value of all processed goods. In the event of combination with a property, the customer hereby assigns to us its claim for deliveries and services to the property owner or property user in order to secure our claim.

§ 5 Warranty

1. In the event of a defect, the customer is entitled to demand supplementary performance in the form of defect rectification. CobiNet is entitled to deliver defect-free goods instead. If the defect rectification fails twice, then the customer can reduce the purchase price or withdraw from the contract. The statutory deadlines apply to the exercising of warranty rights.
2. If the supplementary performance fails, the customer is entitled, at its own discretion, to demand a reduction of the agreed price or to withdraw from the contract.
3. In accordance with the statutory provisions, CobiNet GmbH is liable for compensation claims based on intent or gross negligence. Except in the case of intent, liability for compensation is limited to foreseeable and typical damage. This also applies in the case of other conceivable liability cases. Liability for damage as a result of minor negligence is excluded.
4. CobiNet does not accept liability for damage to the customer that is caused by persons and institutions that are not our own vicarious agents (postal service, railway service, freight forwarders). The customer is entitled to take out transportation insurance or to request that we take out an insurance policy on its behalf and at its cost.

§ 6 Place of jurisdiction and place of performance

1. The place of jurisdiction is, at our discretion, our place of business or the customer's statutory place of jurisdiction.
2. Unless specified otherwise in the order confirmation, the place of performance is our place of business.

§ 7 Final provisions

1. The law of the Federal Republic of Germany applies exclusively to the exclusion of the UN Convention on Contracts for the International Sale of Goods. This also applies to deliveries outside of the Federal Republic of Germany.
2. Verbal agreements only apply following written confirmation.
3. The customer's address and order information is processed and saved electronically. We guarantee not to forward this information to third parties for the likes of marketing purposes.
4. If individual provisions of these Terms and Conditions or additional agreements are ineffective or disputable either in full or in part, this shall not affect the effectiveness of any other provisions or agreements. An ineffective provision is considered replaced by a regulation that most closely reflects the commercial intent of the contract.

FILING MECHANISM



Fold out the page, fold the grey page onto the red page and file away.

PRODUCING NETWORK PERFORMANCE



CobiNet Fernmelde- und Datennetzkomponenten GmbH

Robert-Bosch-Strasse 33
68542 Heddesheim, Germany

Telephone +49 (0)6203 4900-0
Telefax +49 (0)6203 4900-88
Internet www.cobinet.com
E-Mail info@cobinet.com



youtube.cobinet.com



facebook.com/cobinet.gmbh



twitter.com/CobinetGmbH