CobiNet
Producing Network Performance

Data cable CobiNet 1000 CC SX, S/FTP, Cat. 7

Made in Germany

Application

- Data cable for transmission of analogue and digital signals for structured building cabling according to ISO/IEC 11801 (2nd edition); EN 50173 and EN 50174-2
- Suitable for all class F applications
- Suitable for IEEE 802.3 : Ethernet 10Base-T ; Fast Ethernet 100Base-T ; Gigabit Ethernet 1000Base-T ; 10GBase-T, IEEE 802.5 : ISDN ; FDDI ; ATM ; Cable sharing IEEE 802.3
- PoE/PoE+/PoE++ (IEEE 802.3af/IEEE 802.3at/IEEE 802.3bt (Type 3) up to 60 watts



Features and Design

- Cat. 7 according to EN 50288 and IEC 61156
- PoE/PoE+/PoE++ (IEEE 802.3af/IEEE 802.3at/IEEE 802.3bt (Type 3) up to 60 watts
- Bandwidth.....max. 1000 MHz
- Printing outer sheath
  CobiNet 1000 CC DX, Cat. 7 ISO/IEC 11801 and EN 50173, S/FTP, 2x(4x2xAWG23), P/N 114757 §Chargeno.§ §metermarking§
- Colour.....RAL 6018 (green)
- Length.....1000m drum

(The length marking is not verifiable. The tolerance is +/- 3%. It is not proided for testing the specified and calculated in the delivery documentation actual delivery lenght)

2026-10-07 17:03 | © CobiNet Fernmelde- & Datennetzkomponenten GmbH | Changes, printing and other errors reserved

CobiNet
Producing Network Performance

Technical Specification

Climate area

- Thermal characteristics
  - Temperature range for fixed installation.....-20°C up to +60°C (-4°F to 140°)
  - Temperature range for mobile operation.....0°C up to +50°C (32°F to 122°)

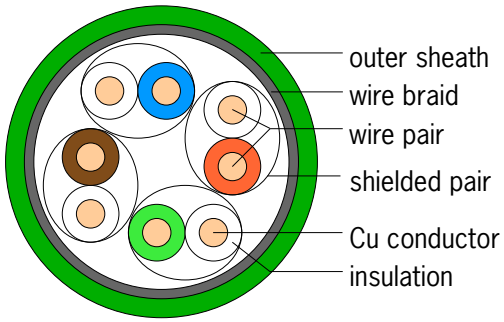
Chemical characteristics

- Conform to RoHS 2011/65/EU

Fire behaviour

- Flame retardance.....according to IEC 60332-3-24
- Halogen acid gas emission.....according to IEC 60754-2
- Smoke density.....according to IEC 61034
- Calorific value (approx.).....0.63 MJ/m
- Classification of fire behaviour.....Dca, -s1, -d2
- Reference number of the Declaration of Performance.....CLD 17-07/01

Construction



- Conductor.....bare copper wire, AWG 23/1
- Insulation.....PE
- Twisting element.....pair
- Shielded pair.....aluminum-bonded polyester tape
- Twisting.....4 pairs
- Wire braid.....tinned copper
- Outer sheath.....halogen-free compound
- Colour code.....whbu/bu, whor/or, whgn/gn, whbn/bn
- Outer diameter.....7.5 ± 0.2 mm
- Copper content.....28 kg/km

Mechanical values

- Bending radius
  - During installation.....8x overall diameter
  - After installation.....4x overall diameter
- Tensile strength.....max. 105 N
- Crush.....1000 N/100 mm
- Impact.....3 shocks

CobiNet
Producing Network Performance

Electromechanical values

- Transfer impedance at 10 MHz.....≤ 8 mΩ/m, Grade 1
- Screening attenuation up to 1000 MHz.....>80 dB, Typ 1B
- Separating class according to EN 50174-2.....D
- Runtime difference.....< 8ns/100m

Electrical values at 20 °C

- Max. DC resistance.....160 Ω/km according VDE 0812
- Mutual capacitance (approx.).....45 nF/km
- Signal velocity (NVP) (approx.).....0.79 c
- Propagation delay.....425 ns/100 m
- Skew at 100 MHz.....≤ 10 ns/100 m
- Characteristic impedance at 100 MHz.....100±5 Ω
- Test voltage.....700 V (RMS)
- Max. operating voltage.....125 V (RMS)

Transmission performance (typical values)

Frequency (MHz)	Attenuation (dB/100 m)	NEXT (dB)	ACR (dB/100 m)	ELFEXT (dB/100 m)	Return Loss (dB)
1	1,8	105	103	95	25
10	5,3	105	100	92	30
100	17,3	100	83	77	33
200	24,8	98	73	70	29
300	30,7	97	66	67	27
400	35,8	96	60	64	26
600	44,2	90	46	60	23
800	50,8	88	37	56	22
900	56,0	85	29	53	21
1000	59,0	82	23	50	20