

FutureCom™ S/FTP 800/23, purple

Category 7, 1000 m

CORNING

The FutureCom™ Industrial S/FTP 800/23 cable with polyurethane jacket is particularly suitable for industrial applications. It is recommended in conjunction with FutureCom metal outlets for industrial networks. This cable is designed for applications up to 1000 MHz and its transmission characteristics exceed Category 7 specifications according to EN 50288-4-1 and IEC 61156-5.

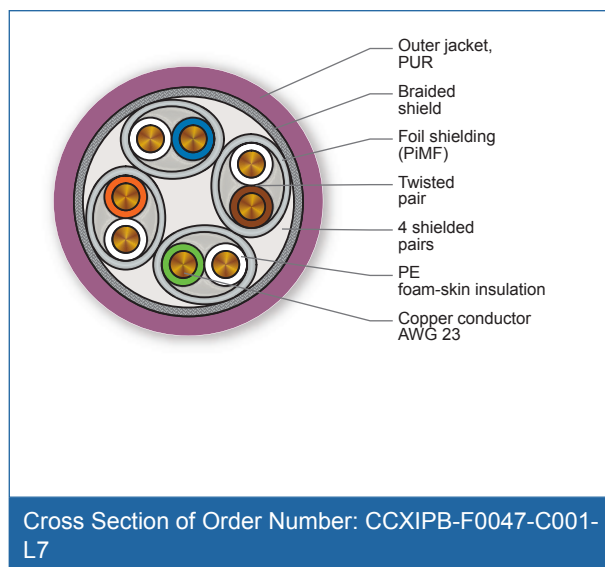
High system margins for the complete link according to ISO/IEC 11801 AMD:2 (2010) and EN 50173 (Series) will be achieved by using corresponding hardware together with this high-end copper cable.

Due to the very low delay skew between the pairs these FutureCom cables are especially suitable for Gigabit Ethernet and also for transmission of digital data for future applications up to 10 Gigabit Ethernet according to IEEE 802.3an.

Each pair is individually foil shielded. The stranded pairs (PiMF) are also sheathed with a braid shield (S/FTP), which guarantees outstanding shielding characteristics. The cable satisfies Class B interference radiation standards according to EN 55022, as well as immunity according to EN 55024, which enables the realisation of CE-compatible networks.

Features

- S/FTP 800/23 PUR cable specified up to 1000 MHz
- Outstanding electrical characteristics
- Each twisted pair is shielded with metal foil (PiMF)
- Full copper braid shield
- Streamlined design, lightweight
- Lightweight
- Low skew between the pairs
- Halogen-free (LSZH™) according to IEC 61034 and EN 50268
- Flame resistant and non-corrosive according to IEC 60754-2 and EN 50267
- Resistant against mineral and cooling lubricant



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Specifications

General Specifications

Halogen-free	Yes
Category	7

Temperature Range

Installation and Assembly	0 °C to 50 °C
Operation	-20 °C to 60 °C

Cable Design

No. of Pairs	4
Outer Jacket Colour	Purple

Mechanical Characteristics

Conductor insulation	Halogen-free foam-skin material
Min. Bend Radius Operation	3x Cable-Ø (over flat side)
Min. Bend Radius Installation	8x Cable-Ø (over flat side)
Copper conductor	AWG 23
Fire Load	0.74 MJ/m
Maximum Tensile Strength	154 N
Nominal Outer Diameter	7.7 mm

Electrical characteristics (at 20°C)

Largest resistance margin	1 %
Insulation Resistance	> 5000 MΩ x km
Surface transfer impedance	< 10 mΩ/m at 10 MHz
Propagation velocity at >10 MHz (NVP*c)	0.79 * c
Propagation delay ≥10 MHz	4.2 ns/m
Delay skew	4 ns/100 m
Max. loop resistance	130 Ω/km
Coupling Attenuation	88 dB

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Electrical characteristics (at 20°C)

Frequency [MHz]*	1	4	10	100	300	600	800	1,000
Attenuation according to standard [dB/100 m]*	2.0	-	5.7	18.5	33.3	48.9	-	-
Typical attenuation [dB/100 m]*	1.8	3.4	5	16.9	30.7	43.0	51.0	58
NEXT according to standard [dB/100 m]*	80.0	-	80.0	72.4	65.3	60.8	-	-
Typical NEXT values [dB/100 m]*	102	102	102	102.0	95.0	92.0	90.0	80
ACR-N according to Standard [dB/100 m]*	-	-	-	53.9	32.0	11.9	-	-
Typical ACR-N values [dB/100 m]*	100.2	98.6	97	85.1	64.3	49.0	39.0	22

Chemical characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Ordering Information

Part Number	CCXIPB-F0047-C001-L7
Product Description	FutureCom™ S/FTP 800/23, 1000 m
EAN Code	4042673113133
Weight	64 kg/km
Length	1,000 m

Shipping Information

Maximum Delivery Length	1,000 m
Packing type	Drum



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