

FutureCom™ S/FTP 800/23 with Diffusion Barrier

Category 7, black, 1000 m

CORNING

The FutureCom™ S/FTP 800/23 outdoor cable with diffusion barrier 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.

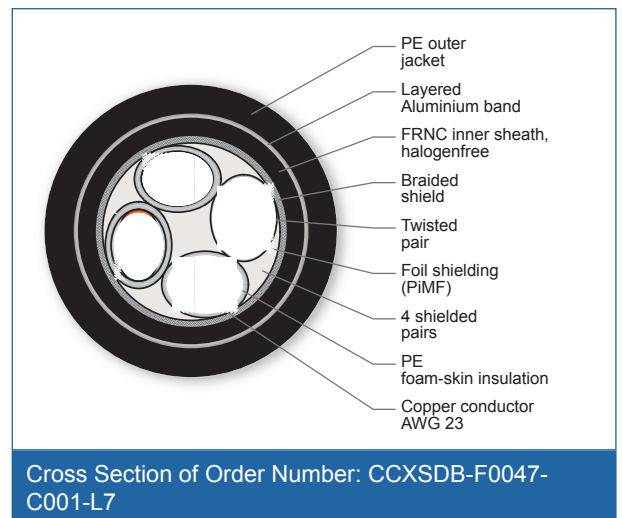
High system margins for the complete link according to ISO/IEC 11801 Ed.2.2 AMD:2 (2010) and EN 50173 (Series) will be achieved by using corresponding hardware together with this high-end copper cable.

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 twisted 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 outdoor cable specified up to 1000 MHz
- Outstanding electrical characteristics
- Each twisted pair is shielded with metal foil (PiMF)
- Full copper braid shield
- Includes a diffusion barrier (Aluminium band and PE sheath, UV resistant)
- Low skew between the pairs
- Halogen-free (LSZH™)
- Non-corrosive according to IEC 60754-2 (FRNC) and EN 50267
- Low smoke according to IEC 61034 and EN 50268
- Can be directly buried



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Specifications

General Specifications	
Environment	Outdoor
Cable type	S/FTP
Category	7
Bandwidth	1000 MHz
Halogen-free	No

Temperature Range	
Installation and assembly	0 °C to 50 °C
Operation	-20 °C to 60 °C

Cable Design	
No. of pairs	4
Outer jacket material	Polyethylene (PE)
Outer jacket colour	Black

Mechanical Characteristics	
Conductor Insulation	Halogen-free foam-skin material
Min. Bend Radius Operation	≥ 35 mm
Min. Bend Radius Installation	≥ 60 mm
Copper conductor	AWG 23
Fire Load	2.98 MJ/m
Maximum Tensile Strength	400 N
Nominal Outer Diameter	11.7 mm

Electrical characteristics (at 20°C)	
Conductor resistance unbalance	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

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Electrical characteristics (at 20°C)

Coupling attenuation	88 dB
Max. loop resistance	130 Ω/km
Voltage rating	less than 75 V d.c max and less than 50 V a.c max

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]*	78.0	-	74.3	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 2011/65/EU
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Ordering Information

Part Number	CCXSDB-F0047-C001-L7
Product Description	FutureCom™ S/FTP 800/23 with Diffusion Barrier, black, 1000 m
EAN Code	4042673117667
Weight	126 kg/km
Length	1,000 m

Shipping Information

Maximum delivery length	1,000 m
Packing type	Drum

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The CORNING logo is a blue square with the word "CORNING" in white, uppercase, sans-serif font centered inside.

Notes



**Corning Optical Communications GmbH & Co. KG · Leipziger Strasse 121 · 10117 Berlin, GERMANY
00 800 2676 4641 · FAX: +49 30 5303 2335 · www.corning.com/opcomm/emea**

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