

# FutureCom™ S/FTP 800/23, blue

Category 7, 1000 m

CORNING

The FutureCom™ S/FTP 800/23 cable is designed for applications up to 800 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.

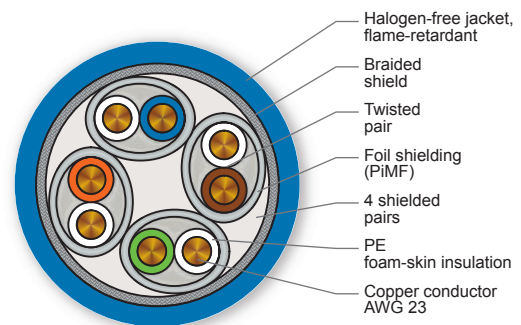
The FutureCom S/FTP 800/23 cable is also available in a triplex version. The compact construction allows flat as well as folded installation.

## Features

- S/FTP 800/23 cable specified up to 800 MHz
- Outstanding electrical characteristics
- Each twisted pair is shielded with metal foil (PiMF)
- Wire colour coding: white/blue, white/orange, white/green, white/brown
- Full copper braid shield
- Complete shielding with tinned copper braid shield (coverage approx. 60 %)
- Streamlined design
- Lightweight
- Low skew between the pairs
- Halogen-free (LSZH)



Part Number: CCXEDB-F0047-C001-L7



Cross Section of Order Number: CCXEDB-F0047-C001-L7

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## Specifications

### General Specifications

Environment	Indoor
Cable Type	S/FTP
Category	7
Bandwidth	800 MHz
Halogen-free	Yes

### 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	LSZH/FRNC
Outer jacket colour	Blue

### 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	0.62 MJ/m
Maximum Tensile Strength	154 N
Nominal Outer Diameter	7.5 mm

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## 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
Coupling Attenuation	88 dB
Max. loop resistance	130 Ω/km

## Electrical characteristics (at 20°C)

Frequency [MHz]*	1	10	16	20	31.25	62.5	100	300	600	800
Attenuation according to standard [dB/100 m]*	2.0	5.7	7.2	8.1	10.1	14.5	18.5	33.3	48.9	-
Typical attenuation [dB/100 m]*	1.7	5.0	6.5	7.3	9.2	13.2	16.9	30.7	44.0	53.0
NEXT according to standard [dB/100 m]*	80.0	80.0	80.0	80.0	80.0	75.1	72.4	65.3	60.8	-
Typical NEXT values [dB/100 m]*	>100	>100	>100	>100	>100	>100	99.0	95.0	91.0	87.0
PSNEXT according to standard [dB/100 m]*	77.0	77.0	77.0	77.0	77.0	72.5	69.4	62.3	57.8	-
Typical PSNEXT values [dB/100 m]*	98.0	98.0	98.0	98.0	98.0	98.0	97.0	93.0	89.0	85.0
ACR-F according to standard [dB/100 m]*	80.0	74.0	69.9	68.0	64.1	58.1	54.0	44.5	38.4	-
Typical ACR-F values [dB/100 m]*	93.0	93.0	93.0	93.0	90.0	86.0	83.0	68.0	51.0	-
PSACR-F according to standard [dB/100 m]*	77.0	71.0	66.9	65.0	61.1	55.1	51.0	41.5	35.4	-
Typical PSACR-F values [dB/100 m]*	91.0	91.0	91.0	91.0	88.0	84.0	81.0	66.0	49.0	-
ACR-N according to Standard [dB/100 m]*	78.0	74.3	72.8	71.9	69.9	60.6	53.9	32.0	11.9	-
Typical ACR-N values [dB/100 m]*	98.3	95.0	93.5	92.7	90.8	86.8	82.1	64.3	47.0	34.0

## Chemical characteristics

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

Part Number	CCXEDB-F0047-C001-L7
Product Description	FutureCom™ S/FTP 800/23, 1000 m
Weight	61 kg/km
Length	1,000 m

## Shipping Information

Maximum delivery length	1,000 m
Packing type	drum



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