

FutureCom™ S/FTP 550/23s, blue

Category 6_A, 500 m

CORNING

The FutureCom™ S/FTP 550/23s cable is designed for applications up to 550 MHz and its transmission characteristics exceed Category 6 specifications according to EN 50288-5-1, IEC 61156-5, Category 6A according to TIA/EIA 568 and IEC 61156-5 (2006).

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. The cable has a streamlined construction and low weight.

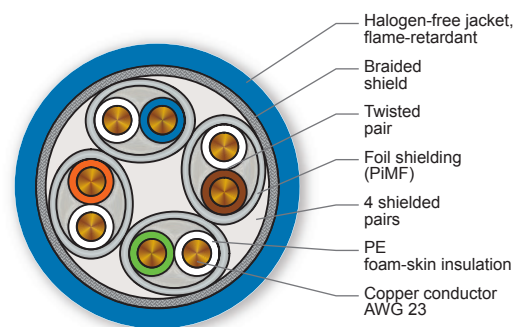
Each pair is individually foil shielded. The stranded pairs (PiMF) are also sheathed with a braid shield (S/FTP), which guarantees outstanding shielding characteristics. The cable satisfies Class B interference radiation standards according to EN 55022, as well as immunity according to EN 55024, which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

Features

- S/FTP 550/23s cable specified up to 550 MHz
- Outstanding electrical characteristics
- Each twisted pair is shielded with metal foil (PiMF)
- Wire colour coding: white/blue, white/orange, white/green, white/brown
- Complete shielding with tinned copper braid shield (coverage approx. 30 %)
- Streamlined design
- Lightweight
- Low skew between the pairs
- Halogen-free (LSZH)
- Flame retardant according to IEC 60332-1 and EN 50266-2-1



Part Number: CCXEDR-D0047-C003-L6



Cross Section of Order Number: CCXEDR-D0047-C003-L6

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Specifications

General Specifications

Environment	Indoor
Cable Type	S/FTP
Category	6 _A
Bandwidth	550 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	0.5 MJ/m
Maximum Tensile Strength	113 N
Nominal Outer Diameter	7 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	80 dB
Max. loop resistance	165 Ω/km

Electrical characteristics (at 20°C)

Frequency [MHz]*	1	10	16	20.0	31.25	62.5	100.0	250.0	500.0	550.0
Attenuation according to standard [dB/100 m]*	2.1	5.9	7.5	8.4	10.5	15.0	19.1	31.1	45.3	-
Typical attenuation [dB/100 m]*	1.8	5.3	6.8	7.6	9.6	13.6	17.3	27.7	41.9	42.6
NEXT according to standard [dB/100 m]*	75.3	60.3	57.2	55.8	52.9	48.4	45.3	39.3	34.8	-
Typical NEXT values [dB/100 m]*	>100	>100	>100	>100	>100	97.0	95.0	90.0	83.0	77.0
PSNEXT according to standard [dB/100 m]*	72.3	57.3	54.2	52.8	49.9	45.4	42.3	36.3	31.8	-
Typical PSNEXT values [dB/100 m]*	98.0	98.0	98.0	98.0	98.0	95.0	93.0	88.0	81.0	75.0
ACR-F according to standard [dB/100 m]*	68.0	48.0	43.9	42.0	38.1	32.1	28.0	20.0	14.0	-
Typical ACR-F values [dB/100 m]*	93.0	93.0	93.0	93.0	90.0	86.0	83.0	70.0	57.0	51.0
PSACR-F according to standard [dB/100 m]*	65.0	45.0	40.9	39.0	35.1	29.1	25.0	17.0	11.0	-
Typical PSACR-F values [dB/100 m]*	90.0	90.0	90.0	90.0	87.0	83.0	80.0	67.0	54.0	48.0
ACR-N according to Standard [dB/100 m]*	73.2	54.4	49.8	47.4	42.4	33.4	26.2	8.3	-10.4	-
Typical ACR-N values [dB/100 m]*	98.2	94.7	93.2	92.4	90.4	83.4	77.7	62.3	41.1	34.4

Chemical characteristics

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

Part Number	CCXEDR-D0047-C003-L6
Product Description	FutureCom™ S/FTP 550/23s FRNC, 500 m
Weight	48 kg/km
Length	500 m

Shipping Information

Maximum delivery length	500 m
Packing type	drum



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