

FutureCom™ S/FTP 550/23, blue, Cca,s1,d1,a1

Category 6_A, 1000 m

CORNING

The FutureCom™ S/FTP 550/23 cable is designed for applications up to 550 MHz and its transmission characteristics exceed Category 6_A specifications according to EN 50288-10-1 and IEC 61156-5

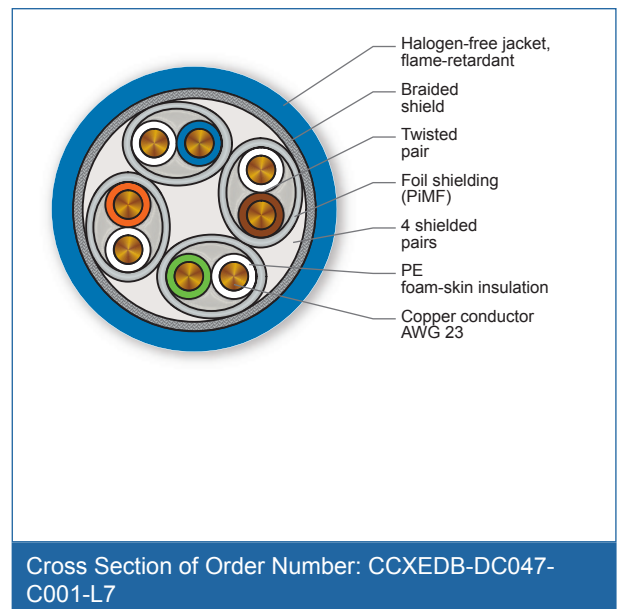
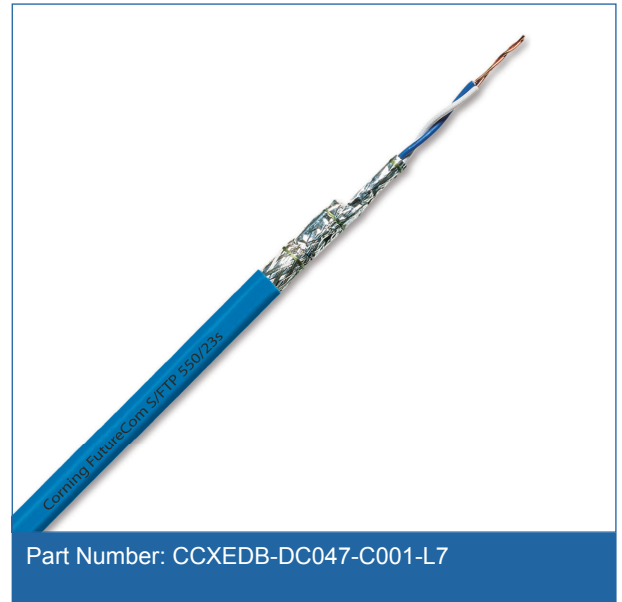
High system margins for the complete link according to ISO/IEC 11801 (Edition 2.2: 2011) and EN 50173 (Series) will be achieved by using corresponding hardware together with this high-end copper cable.

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 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 550/23 cable specified up to 550 MHz
- Fulfils all requirements of category 6_A according to standards EN 50288-4-1 and IEC 61156-5
- Ensures high system margins according to ISO/IEC 11801 Ed.2.2 (2011) and EN 50173 Series (2011)
- Suitable for 10 Gigabit Ethernet according to IEEE 802.3an
- Supports Power over Ethernet (PoE/PoE+)
- Each twisted pair is shielded with metal foil (PiMF), low skew between the pairs
- Overall shielding with tinned copper wire braiding
- Flame retardant according to IEC 60332-3-24 and EN 50266-2-4 (FR), EN 13501-6, non-corrosive according to IEC 60754-2 (NC) and EN 50267
- Low smoke according to IEC 61034 and EN 50268; halogen-free (ZH/OH), no development of toxic gases in case of fire
- Satisfies Class B interference radiation as well as immunity standards (EN 55022 and EN 55024)



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Standards

Approvals and Listings	Flame retardant according to IEC 60332-3-24 and EN 50266-2-4
	Reaction to fire according to EN 13501-6

Specifications

General Specifications	
Environment	Indoor
Cable type	S/FTP
Category	6 _A
Bandwidth	550 MHz
Halogen-free	Yes
Reaction to fire	Cca,s1,d1,a1
Product category	Core product / Fastship

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
Conductor Insulation	Halogen-free foam-skin material
Conductor	Copper Wire, AWG 23

Mechanical Characteristics	
Min. Bend Radius Operation	3x Cable-Ø (over flat side)
Min. Bend Radius Installation	8x Cable-Ø (over flat side)
Fire Load	0.482 MJ/m
Maximum Tensile Strength	145 N
Nominal Outer Diameter	7.5 mm

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Electrical characteristics (at 20°C)

Conductor resistance unbalance	1 %
Insulation Resistance	> 5000 MΩ*km
Surface transfer impedance	< 5 mΩ 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	165 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	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
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 2011/65/EU
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Ordering Information

Part Number	CCXEDB-DC047-C001-L7
Product Description	FutureCom™ S/FTP 550/23, Cca,s1,d1,a1, 1000 m
EAN Code	4059496300701
Weight	59 kg/km
Length	1,000 m

Shipping Information

Maximum delivery length	1,000 m
Packing type	Drum

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Notes



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