

# FutureCom™ F/FTP 550/23, blue

Category 6<sub>A</sub>, 250 m

CORNING

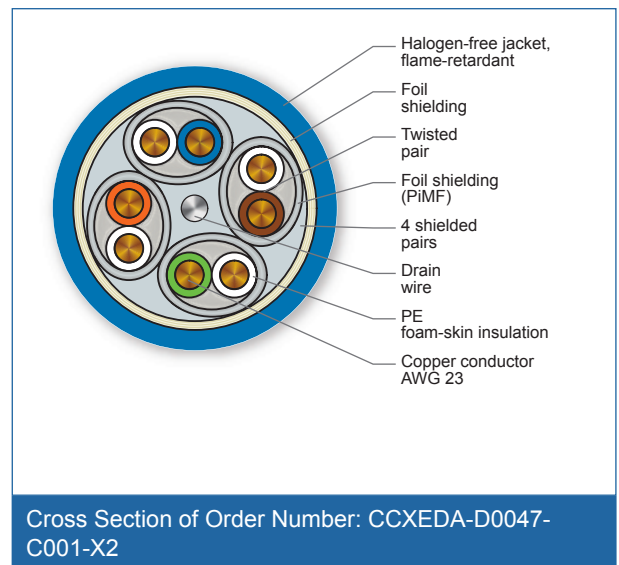
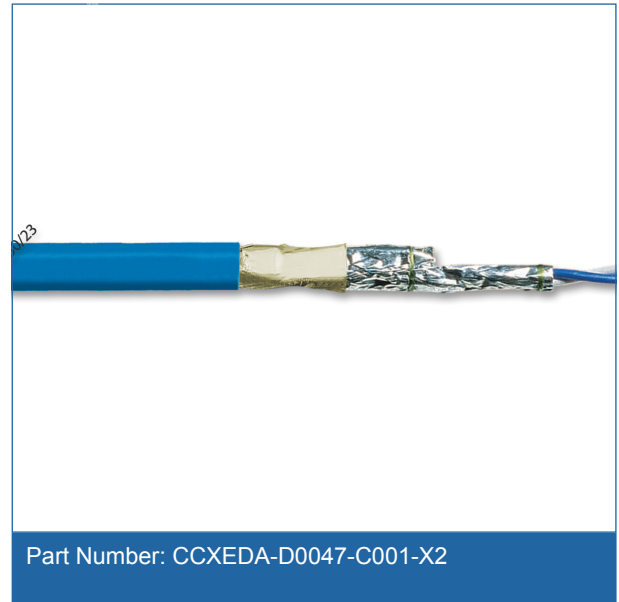
The FutureCom™ F/FTP 550/23 cable is tested up to 550 MHz and provides transmission performance meeting Category 6A specifications EN 50288, IEC 61156-5 and „Cat. 6 augmented“ in compliance with TIA/EIA 568.

Outstanding system headroom of the complete cabling system in compliance with ISO/IEC 11801 Edition 2.2. and EN 50173. Outstanding performance for the transmission of digital data signals for future coming applications up to 10GbE in compliance with the current Class EA (ISO/IEC 11801) and IEEE 802.3an standard. FutureCom™ cables are low skew products, i.e. the difference in propagation delay between the individual pairs is very low. This is increasingly being requested for Gigabit Ethernet. The suitability of the cable for high-bit-rate transmission systems ensures a high degree of future proofing. Additional features are the slim design and low weight of the cables. Each pair is individually shielded with foil (FTP). The twisted pairs are additionally enclosed in an overall shielded foil (F/FTP) to provide superior shielding performance.

The cable thus exceeds the requirements for EN 55022 Class B emission and EN 55024 immunity, enabling networks to be built which are compliant with the standards on electromagnetic compatibility.

## Features

- F/FTP 550/23 cable specified up to 550 MHz
- Fulfills the requirements of the standards IEC 61156-5 Ed.2
- Outstanding electrical characteristics
- Each twisted pair is individually shielded with a metal foil (PIMF) and a common foil
- Low propagation delay and low delay skew between the pairs
- Halogen-free (LSZH™)
- Flame retardant according to IEC 60332-3-24 and EN 50266-2-4
- Non-corrosive according to IEC 60754-2 (FRNC) and EN 50267
- Low smoke according to IEC 61034 and EN 50268



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## Specifications

General Specifications	
Environment	Indoor
Cable Type	F/FTP
Category	6 <sub>A</sub>
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
Area/range of application	Dry and damp rooms
Min. Bend Radius Operation	≥ 3x Cable-Ø
Min. Bend Radius Installation	≥ 8x Cable-Ø
Maximum Tensile Strength	101 N
Nominal Outer Diameter	7.3 mm
Fire Load	0.62 MJ/m
Copper conductor	AWG 23

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## Electrical characteristics (at 20°C)

Largest resistance margin	1 %
Insulation Resistance	> 5000 MΩ x km
Impedance $Z_0$ at 0.064 MHz	125 Ω +/- 20%
Impedance $Z_0$ at 1-100 MHz	100 Ω +/- 15%
Surface transfer impedance	< 100 mΩ/m at 10 MHz
Propagation velocity at >10 MHz (NVP*c)	0.78 °C
Propagation delay ≥10 MHz	4.2 ns/m
Delay skew	40 ns/100 m
Coupling Attenuation	> 70 dB
Max. loop resistance	165 Ω/km

## Electrical characteristics (at 20°C)

Frequency [MHz]*	1	10	16	20	31.25	62.5	100	250	500	550
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	CCXEDA-D0047-C001-X2
Product Description	FutureCom™ F/FTP 550/23, 250 m
Weight	49 kg/km
Length	250 m

## Shipping Information

Packing type	Reelex Box
Maximum Delivery Length	250 m



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