FutureCom™ F/FTP 450/23, blue

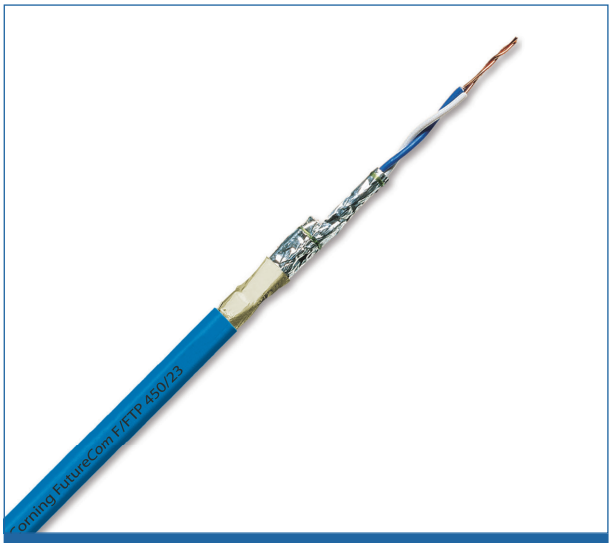
Category 6, 500 m

The FutureCom™ F/FTP 450/23 cable is designed for applications up to 450 MHz and its transmission characteristics exceed Category 6 specifications according to EN 50288-5-1, IEC 61156-5 and TIA/EIA 568.

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 copper data cable.

Due to the very low delay skew between the pairs these FutureCom cables are especially suitable for Gigabit Ethernet. The cable has a streamlined construction and low weight.

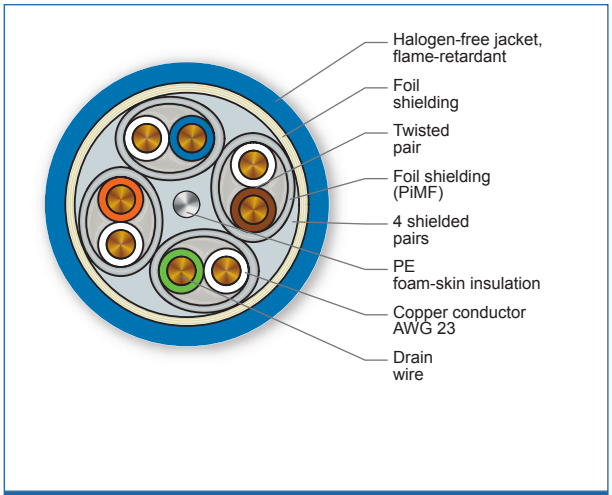
Each pair is individually foil shielded, which guarantees outstanding shielding characteristics. The cable satisfies Class B interference radiation standards according to EN 55022, as well as immunity according to EN 55024, which enables the realisation of CE-compatible networks.



Part Number: CCXDDA-D0047-C001-L6

Features

- F/FTP 450/23 cable specified up to 450 MHz
- Outstanding electrical characteristics
- Each twisted pair is shielded with metal foil (PIMF)
- Streamlined design, lightweight
- Lightweight
- Low skew between the pairs
- Halogen-free (LSZH™)
- 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



Cross Section of Order Number: CCXDDA-D0047-C001-L6

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

FutureCom™ F/FTP 450/23, blue

Category 6, 500 m

CORNING

Specifications

General Specifications	
Environment	Indoor
Cable type	F/FTP
Category	6
Bandwidth	450 MHz
Reaction to fire	Dca, s2,d2,a1
Halogen-free	Yes
Product category	Core product

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	≥ 22 mm (for 2x (4x2...) over flat side)
Min. Bend Radius Installation	≥ 60 mm (for 2x (4x2...) over flat side)
Copper conductor	AWG 23
Fire Load	0.57 MJ/m
Maximum Tensile Strength	101 N
Nominal Outer Diameter	7.2 mm

Electrical characteristics (at 20°C)	
Conductor resistance unbalance	1 %
Insulation Resistance	> 5000 MΩ*km
Surface transfer impedance	< 100 mΩ/m at 10 MHz
Delay skew	4 ns/100 m

FutureCom™ F/FTP 450/23, blue

Category 6, 500 m

CORNING

Electrical characteristics (at 20°C)	
Coupling attenuation	> 70 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	31.25	62.5	100	250
Attenuation according to Standard [dB/100 m]*	2.1	6.0	7.6	8.5	10.8	15.5	19.9	33.0
Typical attenuation [dB/100 m]*	1.8	5.3	6.8	7.6	9.6	13.6	17.3	27.7
NEXT according to Standard [dB/100 m]*	66.0	59.3	56.2	54.8	51.9	47.4	44.3	38.3
Typical NEXT Values [dB/100 m]*	100	100	100	100	100	97.0	95.0	90.0
ACR-N according to Standard [dB/100 m]*	63.9	53.3	48.6	46.3	41.1	31.9	24.4	5.3
Typical ACR-N Values [dB/100 m]*	98.2	94.7	93.2	92.4	90.4	82.4	77.7	62.3

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU

Ordering Information

Part Number	CCXDDA-D0047-C001-L6
Product Description	FutureCom™ F/FTP 450/23, Dca,s2,d2,a1, 500 m
EAN Code	4042673072157
Weight	48 kg/km
Length	500 m

Shipping Information

Maximum delivery length	500 m
Packing type	Drum

FutureCom™ F/FTP 450/23, blue

Category 6, 500 m

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Notes

RoHS COMPLIANT

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