

FutureCom™ F/FTP 450/23, blue Category 6, 1000 m



Part Number:
CCXDDA-D0047-C001-L7

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 realization of CE-compatible networks.

Features and Benefits

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

Supports Power over Ethernet (PoE / PoE+ / PoE++) according IEEE 802.3bt



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Specifications

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

Cable Design	
Conductor Insulation	Halogen-free foam-skin material
Outer Jacket Material	LSZH™/FRNC
Outer Jacket Color	Blue

Mechanical Specifications	
Fire Load	0.57 MJ/m
Nominal Outer Diameter	7.2 mm
Min. Bend Radius Installation	8x Cable-Ø (over flat side)
Maximum Tensile Strength	101 N

Electrical Characteristics	
Conductor resistance unbalance	1 %
Delay skew	4 ns/100 m
Max. loop resistance	165 Ω/km
Voltage rating	Less than 75 V d.c max and less than 50 V a.c max
Insulation Resistance	5000 MΩ*km

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Electrical Characteristics

Surface transfer impedance	100 mΩ
Coupling Attenuation	70 dB

Ordering Information

Weight	48 kg/km
Packing Type	Drum

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Flame Test Method	Flame retardant according to IEC 60332-3-24 and EN 50266-2-4 Reaction to fire according to EN 13501-6

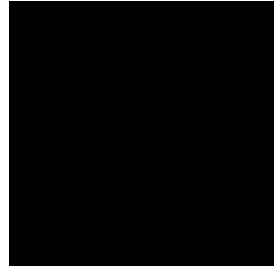
Environmental Conditions

Temperature Range, Installation	0 °C to 50 °C
Temperature Range, Operation	-20 °C to 60 °C

Electrical Characteristics

Frequency [MHz]	1	10	16	20	31	62	100	250	450
Attenuation according to Standard [db/100m]	2.1	6.0	7.6	8.5	10.8	15.5	19.9	33.0	
Typical attenuation [db/100m]	1.8	5.3	6.8	7.6	9.6	13.6	17.3	27.7	38.0
NEXT according to Standard [db/100m]	66.0	59.3	56.2	54.8	51.9	47.4	44.3	38.3	
Typical NEXT Values [db/100m]	100.0	100.0	100.0	100.0	100.0	97.0	95.0	90.0	85.0
ACR-N according to Standard [db/100m]	63.9	53.3	48.6	46.3	41.1	31.9	24.4	5.3	
Typical ACR-N Values [db/100m]	98.2	94.7	93.2	92.4	90.4	82.4	77.7	62.3	47.0

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