

Everon® Copper Datacom F/FTP 450/23, Category 6, LSZH/FRNC, Dca 4P, Blue

CORNING

Part Number:
CCXDDA-D0047-C001-L6

The Everon® Copper Datacom F/FTP 450/23 cable is designed up to 450MHz and its transmission characteristics exceed Category 6 specifications according to EN50288-5-1 IEC 61156-5. High system margins for the complete link according to the last version of ISO/IEC 11801 and EN 50173 (Series) will be achieved by using corresponding hardware together with this highend copper cable. Due to the very low delay skew between the pairs these Everon® cables are especially suitable for Gigabit Ethernet. The cable has a streamlined construction and low weight. Overall shielding with with a Allaminated foil and each twisted pair is individually shielded with a Allaminated foil (F/FTP). 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 designed up to 450 MHz

Fulfils all requirements of category 6 EN50288-5-1 and IEC 61156-5

Suitable for Classe D to E according to ISO/IEC 11801. EN50173 and 10 Gigabit Ethernet according to IEEE 802.3an

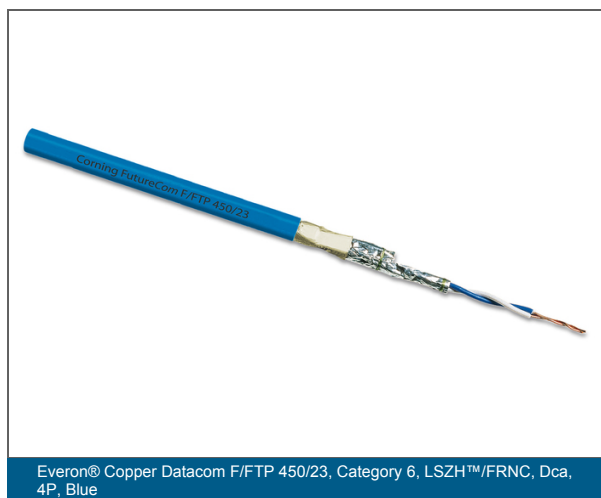
Tested and approved for Power over Ethernet applications (PoE/PoE+/4PPoE) according to IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt up to 90W

Flame retardant and non corrosive (FRNC), Low smoke and halogen-free (LSZH)

Overall shielding with with a Allaminated foil and each twisted pair is individually shielded with a Allaminated foil (F/FTP)

Length marking on jacket

Dca-s1,d1,a1



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Specifications

General Specifications

Category	6
Cable Type	F/FTP
Halogen-free	Yes
Construction	Simplex, 4P
Reaction to Fire	Dca, s1, d1, a1
Legacy Part Number	CCXDDA-D0047-C001-L6
Brand	Everon

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	IEC 61156-5, EN 50288-5-1, ISO/IEC 11801 Ed. 2.2, EN 50173-1, ANSI/TIA-568-C.2, IEC 60304
Design and Test Criteria	Tested and approved for Power over Ethernet applications (PoE/PoE+/4PPoE) according to IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt up to 90W
Flame propagation test	IEC 60332-1; IEC 60332-3-24
Smoke density	IEC 61034-2
Halogen content test	Zero Halogen to IEC 60754-1
Level of corrosion	Non-corrosive according to IEC 60754-2

Environmental Conditions

Halogen-free	Yes
Temperature Range, Installation	0 °C to 50 °C (32 °F to 122 °F)
Temperature Range, Operation	-20 °C to 60 °C (-4 °F to 140 °F)

Cable Design

Conductor	Copper Wire, AWG 23/1
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Cable Design

Conductor Insulation	Halogen-free foam-skin material
Twisting	2 cores to a pair
Outer Jacket Material	LSZH/FRNC
Outer Jacket Color	Blue

Mechanical Specifications

Fire Load	511 MJ/km
Nominal Outer Diameter	6.4 mm
Min. Bend Radius Installation	8x Cable-Ø
Min. Bend Radius Operation	≥ 22 mm for (2x (4x2) over flat side)
Maximum Tensile Strength	100 N

Electrical Characteristics

Conductor resistance unbalance	2 %
Delay skew	40 ns/100 m
Max. loop resistance	190 Ω/km
Propagation delay	520 ns/100 m
Voltage rating	Less than 75 V DC max and less than 50 V AC max
Propagation Velocity at >10 MHz (NVP*c)	78 %
Coupling Attenuation	70 dB
Segregation Class	c
Insulation Resistance	> 5000 MΩ*km

Ordering Information

Product Number	CCXDDA-D0047-C001-L6
Cable Length	500 m
Packaging Method	Drum
Units per Delivery	1/1

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Electrical Characteristics									
Frequency [MHz]	1	10	16	20	31	63	100	250	450
Attenuation according to Standard [db/100m]	3.83	6.0		8.53		15.48	19.92	33.02	46.22
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]	66.27	60.3		55.78		48.36	45.3	39.33	35.5
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]	55.96	48.0		41.98		32.08	28.0	20.04	14.94
Typical ACR-N Values [db/100m]	98.2	94.7	93.2	92.4	82.4	82.4	77.7	62.3	47.0



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