

Everon® Copper Datacom F/FTP 450/23, Outdoor , Category 6, PE, Fca 4P, Black

CORNING

Part Number:
CCXDAA-D0047-C001-L7

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 FutureCom 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

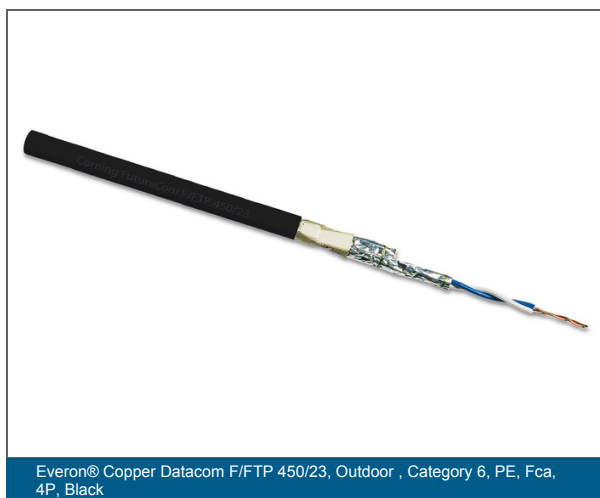
Tested and approved for Power over Ethernet applications (PoE/PoE+/4PPoE) according to IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt up to 90W

PE Outdoor jacket 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

Fca



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Specifications

General Specifications	
Environment	Outdoor
Category	6
Cable Type	F/FTP
Halogen-free	Yes
Construction	Simplex, 4P
Reaction to fire	Fca
Legacy Part Number	CCXDAA-D0047-C001-L7
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; IEC60304
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

Environmental Conditions	
Halogen-free	Yes
Temperature Range, Installation	0 °C to 50 °C
Temperature Range, Operation	-60 °C to 60 °C

Cable Design	
Conductor	Copper Wire, AWG 23/1
Conductor Insulation	Halogen-free foam-skin material
Twisting	2 cores to a pair
Pair screen	Al-laminated foil around each pair

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Cable Design

Outer Jacket Material	PE
Outer Jacket Color	Black

Mechanical Specifications

Fire Load	910 MJ/km
Nominal Outer Diameter	6.4 mm
Min. Bend Radius Installation	8x Cable-Ø
Min. Bend Radius Operation	3x Cable-Ø (over flat side)
Maximum Tensile Strength	101 N

Electrical Characteristics

Conductor resistance unbalance	1 %
Delay skew	40 ns/100 m
Max. loop resistance	165 Ω/km
Propagation delay	520 ns/100 m
Voltage rating	Less than 75 V DC max and less than 50 V AC max
Surface transfer impedance	100 mΩ
Propagation Velocity at >10 MHz (NVP*c)	78 %
Coupling Attenuation	70 dB
Segregation Class	c
Insulation Resistance	> 5000 MΩ*km

Dimensions

Length	0 mm
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Ordering Information

Product Number	CCXDAA-D0047-C001-L7
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Ordering Information

Cable Length	1000 m
Packaging Method	Drum
Units per Delivery	1/1

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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