

Everon® Copper Datacom F/FTP 550/23, Category 6A, LSZH/FRNC, Dca 4P, Blue

CORNING

Part Number:
CCXEDA-D0047-C001-L6

The Everon® Copper Datacom F/FTP 550/23 cable is designed up to 550MHz and its transmission characteristics exceed Category 6A specifications according to EN50288-10-1 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 and also for transmission of digital data for future applications up to 10 Gigabit Ethernet according to IEEE 802.3an. 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 realisation of CE-compatible networks.

Features and Benefits

F/FTP 550/23 cable designed up to 550 MHz

Fulfils all requirements of category 6A EN50288-10-1 and IEC 61156-5

Suitable for Classe D to EA 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

Certified by a vendor-independent and impartial test lab

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

Environment	Indoor
Category	6A
Cable type	F/FTP
Halogen-free	Yes
Area/range of application	Dry and damp rooms
Construction	Simplex, 4P
Reaction to fire	Dca, s1, d1, a1
Legacy Part Number	CCXEDA-D0047-C001-L6
Brand	Everon®

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	IEC 61156-6; EN 50288-5-2, ISO/IEC 11801 Ed. 2.2; EN 50173-1, ANSI/TIA -568-C-2; IEC60304
Design And Test Criteria	1000 Base-T IEEE 802.3 an; PoE / PoE++ IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt
Flame propagation test	IEC 60332-1; IEC 60332-3-24
Smoke density	IEC 61034-2
Halogen content test	Zero Halogen to IEC 60754-1

Environmental Conditions

Halogen-free	Yes
Temperature range, installation	0 °C to 50 °C
Temperature range, operation	-20 °C to 60 °C

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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
Outer jacket material	LSZH/FRNC
Outer jacket colour	Blue

Mechanical Characteristics

Fire load	620 MJ/km
Nominal outer diameter	7.3 mm
Min. bend radius installation	8x Cable-Ø
Min. bend radius operation	≥ 3x Cable-Ø
Maximum tensile strength	145 N

Electrical Characteristics

Conductor resistance unbalance	1 %
Delay skew	9 ns/100 m
Max. loop resistance	165 Ω/km
Propagation delay	425 ns/100 m
Voltage rating	Less than 75 V d.c max and less than 50 V a.c max
Surface transfer impedance	100 mΩ
Impedance Zo at 1-100 MHz	100 Ω ± 15%
Propagation velocity at >10 MHz (NVP*c)	79 %
Coupling attenuation	70 dB
Segregation Class	c
Insulation Resistance	> 5000 MΩ*km

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Dimensions

Width	500 m
Weight	49 kg

Ordering Information

Product Number	CCXEDA-D0047-C001-L6
Packaging method	Drum
Units per delivery	1/1

Electrical Characteristics

Frequency [MHz]	1	10	16	20	31	63	100	250	500	550
Attenuation according to Standard [db/100m]	2.1	5.9	7.5	8.4	10.5	15.0	19.1	31.1	45.3	
Typical attenuation [db/100m]	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/100m]	75.3	60.3	57.2	55.8	52.9	48.4	45.3	39.3	34.8	
Typical NEXT Values [db/100m]	100.0	100.0	100.0	100.0	100.0	97.0	95.0	90.0	83.0	77.0
ACR-N according to Standard [db/100m]	73.2	54.4	49.8	47.4	42.4	33.4	26.2	8.3	-10.4	
Typical ACR-N Values [db/100m]	98.2	94.7	63.2	92.4	90.4	83.4	77.7	62.3	41.1	34.4

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