

Everon™ Copper Datacom F/FTP 550/23, Outdoor, Category 6A, PE, Fca 4P, Black

CORNING

Part Number:

CCXEAA-D0047-C001-L7

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 FutureCom 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 realization of CE-compatible networks.

Features and Benefits

F/FTP 550/23 copper cable specified up to 550 MHz

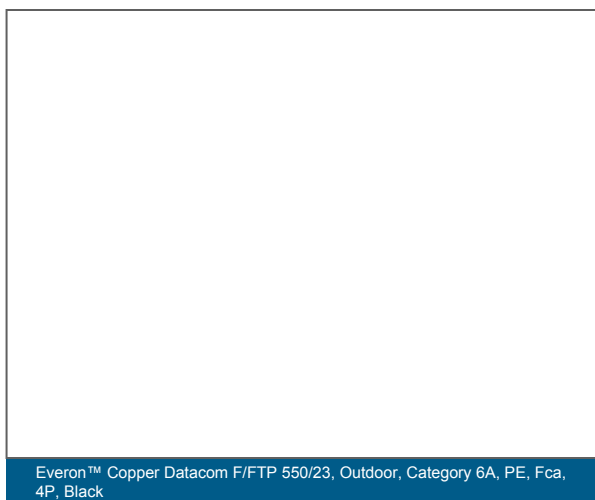
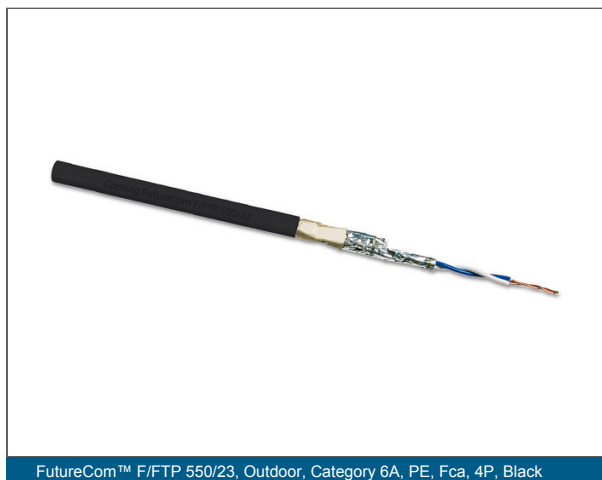
Fulfills all requirements of category 6A according to EN 50288-10-1 and IEC 61156-5

Ensures high system margins according ISO/IEC 11801 Ed.2.2 (2011) and EN 50173-1 series (2011)

Each pair is individually foil shielded covered by an overall screen in PE jacket, Fca

Satisfies Class B + interference radiation as well as immunity standards (EN 55022 and EN 55024)

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



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Specifications

Environmental Conditions

Temperature range, installation	0 °C to 50 °C
Temperature range, operation	-40 °C to 60 °C

General Specifications

Environment	Outdoor
Category	6A
Cable type	F/FTP
Bandwidth	550 MHz
Halogen-free	Yes
Radial watertight	Yes
Construction	Simplex, 4P
UV resistant	Yes
Reaction to fire	Fca
Brand	Everon™

Cable Design

Conductor	Copper Wire, AWG 23/1
Conductor insulation	Halogen-free foam-skin material
Twisting	2 cores to a pair
Outer jacket material	PE
Outer jacket colour	Black

Mechanical Characteristics

Fire load	970 MJ/km
Nominal outer diameter	7.5 mm

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Mechanical Characteristics	
Min. bend radius installation	8x 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
Propagation velocity at >10 MHz (NVP*c)	79 %
Coupling attenuation	70 dB
Insulation Resistance	> 5000 MΩ*km

Ordering Information	
Product Number	CCXEAA-D0047-C001-L7
Length	1000 m
Weight	49 kg
Packing type	Drum
Units per delivery	1/1

Standards	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	IEC 61156-5; EN 50288-10-1, 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
Smoke density	IEC 61034-2

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Standards

Halogen content test	Zero Halogen to IEC 60754-1
Level of corrosion	Non-corrosive according to IEC 60754-2

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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