

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

CORNING

Part Number:
CCXEAA-D0047-C001-L7

FutureCom™ F/FTP 550/23, PE Outdoor Cable: twisted pair, Each pair is individually foil shielded covered by an overall screen in PE jacket, spec. up to 550MHz, AWG 23, PE acc. to IEC 61156-5 EN 50288-10-1, Cat.6A acc. ISO/IEC11801, Fca

Features and Benefits

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

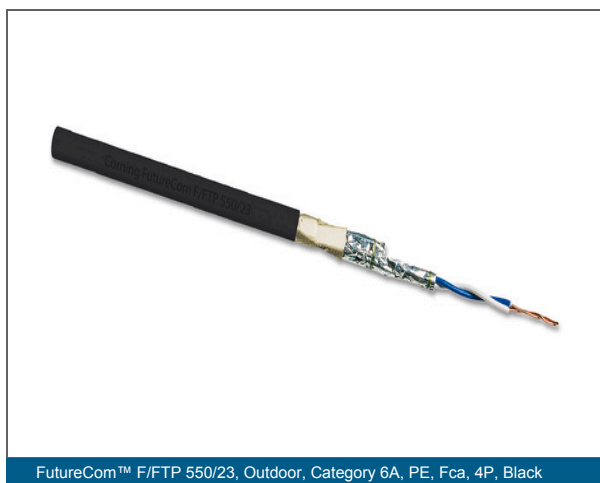
Fulfills all requirements of category 6A according to EN 50288-10-1 and IEC 61156-5

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

Cable Design	
Conductor	Copper Wire, AWG 23
Conductor Insulation	Halogen-free foam-skin material
Twisting	2 cores to a pair
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black

Mechanical Specifications	
Fire Load	970 MJ/m
Nominal Outer Diameter	7.5 mm
Min. Bend Radius Installation	8x Cable-Ø (over flat side)

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Mechanical Specifications

Maximum Tensile Strength	145 N
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Electrical Characteristics

Conductor resistance unbalance	1 %
Delay skew	9 ns/100 m
Max. loop resistance	165 MΩ*km
Propagation delay	425 ns/100 m
Voltage rating	Less than 75 V d.c max and less than 50 V a.c max
Insulation Resistance	5000 MΩ*km
Surface transfer impedance	100 mΩ
Propagation Velocity at >10 MHz (NVP*c)	79 %
Coupling Attenuation	70 dB
Impedance Z0 at 0.064 MHz	125 Ω ± 20%

Ordering Information

Product Number	CCXEAA-D0047-C001-L7
Length	1000 m
Weight	49 kg
Weight	49 kg/km
Packing Type	Drum

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, TIA/EIA 568-C.2; IEC 60304
Design and Test Criteria	IEEE 802.3 an 1000 Base-T Compliant with PoE / PoE++ IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt
Smoke density	Low Smoke to IEC 61034

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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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