

FutureCom™ S/FTP 800/23, Outdoor, Category 7, PE, Fca 4P, Black

CORNING

Part Number:
CCXSDB-F0047-C001-L7

FutureCom™ S/FTP 800/23, PE Outdoor Cable: twisted pair, twisted pair, foil shielded pair(PIMF) and braid shield, covered by an overall screen in PE jacket, spec. up to 1000MHz, AWG 23, PE acc. to IEC 61156-5 EN 50288-4-1, Cat.7 acc. ISO/IEC11801, Fca

Features and Benefits

S/FTP 800/23 copper cable specified up to 1000 MHz

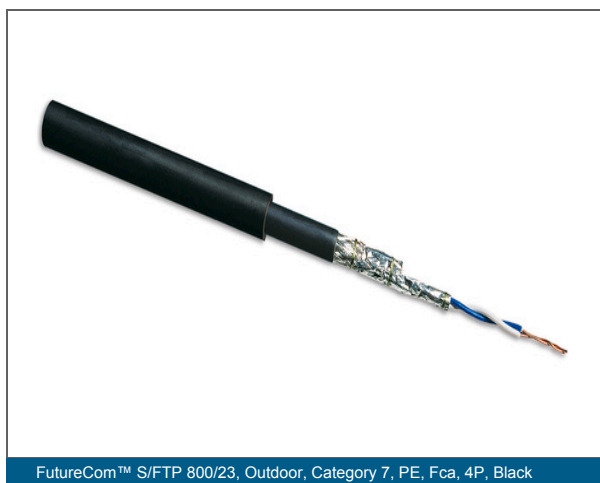
Fulfills all requirements of category 7 according to EN 50288-4-1 and IEC 61156-5

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 to IEEE 802.3af, IEEE 802.3at, 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
Halogen-free	Yes

General Specifications	
Environment	Outdoor
Category	7
Cable Type	S/FTP
Bandwidth	1000 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
Pair screen	Al-laminated foil around each pair
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black

Mechanical Specifications	
Fire Load	2980 MJ/m

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Mechanical Specifications

Nominal Outer Diameter	11.7 mm x 7.9 mm
Min. Bend Radius Installation	8x Cable-Ø (over flat side)
Maximum Tensile Strength	400 N

Electrical Characteristics

Conductor resistance unbalance	1 %
Delay skew	9 ns/100 m
Max. loop resistance	154 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	85 dB

Ordering Information

Product Number	CCXSDB-F0047-C001-L7
Length	1000 m
Weight	126 kg
Weight	126 kg/km
Packing Type	Drum

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	IEC 61156-5; EN 50288-4-1, ISO/IEC 11801 Ed. 2.2; EN 50173-1, TIA/EIA 568-C.2; IEC 60304
Design and Test Criteria	Compliant with PoE / PoE++ IEEE 802.3af, IEEE 802.3at and IEEE 802.3btIEEE 802.3 an 1000 Base-T

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Standards	
Smoke density	Low Smoke to IEC 61034
Halogen content test	Zero Halogen to IEC 60754-1
Level of corrosion	Non-corrosive according to IEC 60754-2

Electrical Characteristics								
Frequency [MHz]	1	4	10	100	300	600	800	1000
Attenuation according to Standard [db/100m]	2.0		5.7	18.5	33.3	48.9		
Typical attenuation [db/100m]	1.8	3.4	5.0	16.9	30.7	43.0	51.0	58.0
NEXT according to Standard [db/100m]	80.0		80.0	72.4	65.3	60.8		
Typical NEXT Values [db/100m]	102.0	102.0	102.0	102.0	95.0	92.0	90.0	80.0
ACR-N according to Standard [db/100m]	78.0		74.3	53.9	32.0	11.9		
Typical ACR-N Values [db/100m]	100.2	98.6	87.0	85.1	64.3	49.0	39.0	22.0



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