

# FutureCom™ F/FTP 450/23, Outdoor , Category 6, PE, Fca 4P, Black

CORNING

**Part Number:**  
**CCXDAA-D0047-C001-L7**

FutureCom™ F/FTP 450/23, PE Outdoor Cable:  
twisted pair, Each pair is individually foil shielded covered by an overall screen in PE jacket, spec. up to 450MHz, AWG 23, PE acc. to IEC 61156-5 EN 50288-5-1, Cat.6 acc. ISO/IEC11801,Fca

## Features and Benefits

F/FTP 450/23 copper cable specified up to 450 MHz

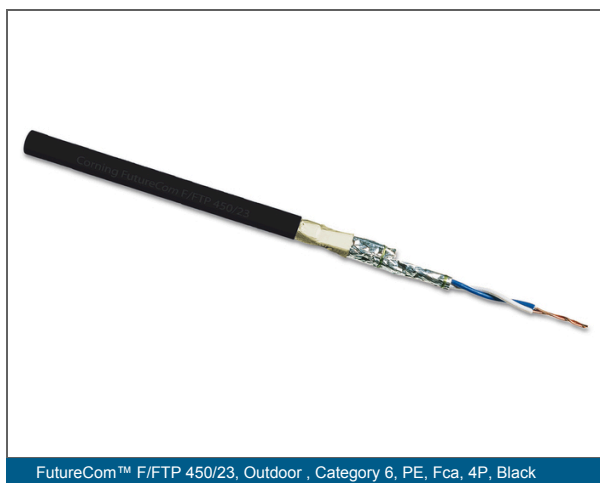
Fulfills all requirements of category 6 according to EN 50288-5-1 and IEC 61156-5

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

General Specifications	
Environment	Outdoor
Category	6
Cable Type	F/FTP
Bandwidth	450 MHz
Halogen-free	Yes
Construction	Simplex, 4P
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	910 MJ/m
Nominal Outer Diameter	6.4 mm
Min. Bend Radius Installation	8x Cable-Ø (over flat side)
Maximum Tensile Strength	101 N

Electrical Characteristics	
Conductor resistance unbalance	1 %
Delay skew	40 ns/100 m

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## Electrical Characteristics

Max. loop resistance	165 MΩ*km
Propagation delay	520 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)	78 %
Coupling Attenuation	70 dB

## Ordering Information

Product Number	CCXDAA-D0047-C001-L7
Length	1000 m
Weight	37.94 kg
Weight	48 kg/km
Packing Type	Drum

## Environmental Conditions

Temperature Range, Installation	0 °C to 50 °C
Temperature Range, Operation	-20 °C to 75 °C

## 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	Compliant with PoE / PoE++ IEEE 802.3af, IEEE 802.3at and IEEE 802.3btIEEE 802.3 an 1000 Base-T

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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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