

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

CORNING

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

The Everon™ Copper Datacom F/FTP 450/23 cable is designed up to 450MHz and its transmission characteristics exceed Category 6 specifications according to EN50288-5-1 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. 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 450/23 copper cable specified up to 450 MHz

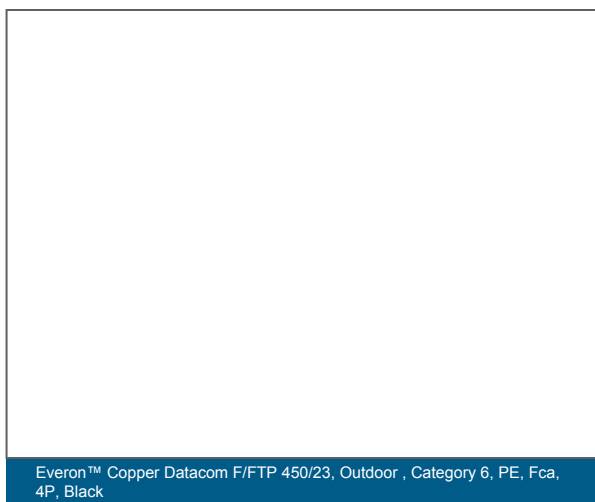
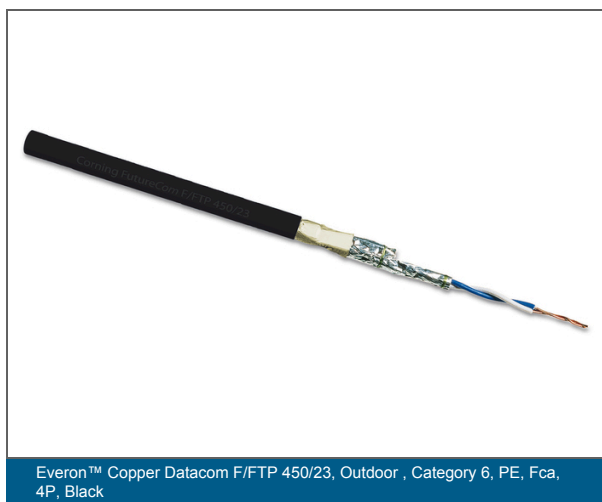
Fulfills all requirements of category 6 according to EN 50288-5-1 and IEC 61156-5

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



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

CORNING

## Specifications

### Environmental Conditions

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

### General Specifications

Environment	Outdoor
Category	6
Cable type	F/FTP
Bandwidth	450 MHz
Halogen-free	Yes
Construction	Simplex, 4P
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
Pair screen	Al-laminated foil around each pair
Outer jacket material	PE
Outer jacket colour	Black

### Mechanical Characteristics

Fire load	910 MJ/km
Nominal outer diameter	6.4 mm
Min. bend radius installation	8x Cable-Ø

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



Mechanical Characteristics	
Maximum tensile strength	101 N

Electrical Characteristics	
Conductor resistance unbalance	1 %
Delay skew	40 ns/100 m
Max. loop resistance	165 Ω/km
Propagation delay	520 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)	78 %
Coupling attenuation	70 dB
Insulation Resistance	> 5000 MΩ*km

Ordering Information	
Product Number	CCXDAA-D0047-C001-L7
Length	1000 m
Weight	37.94 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 50288-5-1, 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

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

CORNING

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



Corning Optical Communications GmbH & Co. KG • Lelpziger Strasse 121 • 10117 Berlin, Germany  
 +00 800 2675 4641 • FAX: +49 30 5303 2335 • [www.corning.com/opcomm/emea](http://www.corning.com/opcomm/emea)

A complete listing of the trademarks of Corning Optical Communications is available at [www.corning.com/opcomm/emea/trademarks](http://www.corning.com/opcomm/emea/trademarks). Corning Optical Communications is ISO 9001 and ISO 14001 certified. © 2022 Corning Optical Communications. All rights reserved.