

# Everon™ Copper Datacom F/UTP 300/24, Outdoor, Category 5e, PE, Fca 4P, Black

CORNING

**Part Number:**  
**CCXDAE-C0047-C001-L7**

The Everon™ Copper Datacom F/UTP 300/24 cable is designed up to 300MHz and its transmission characteristics exceed Category 5e specifications according to EN50288-2-1 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 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 unshielded (F/UTP). 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/UTP 300/24 cable designed up to 300 MHz

Fulfils all requirements of category 5e EN50288-2-1 and IEC 61156-5

Suitable for Classe D to Da according to ISO/IEC 11801. EN50173 and 1 Gigabit Ethernet according to IEEE 802.3an

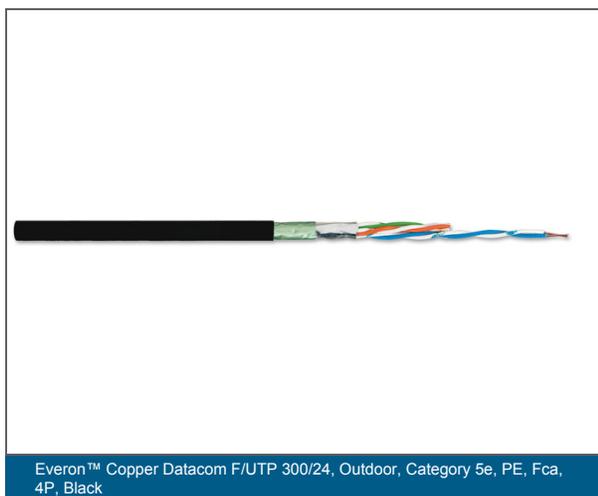
Tested and approved for Power over Ethernet applications (PoE/PoE+/4PPoE) according to IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt up to 90W

PE Outdoor jacket Low smoke and halogen-free (LSZH)

Overall shielding with with a Allaminated foil and each twisted pair unshielded (F/UTP)

Length marking on jacket

Fca



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## Specifications

### General Specifications

Environment	Outdoor
Category	5e
Cable Type	F/UTP
Bandwidth	300 MHz
Halogen-free	Yes
Radial watertight	Yes
Construction	Simplex, 4P
UV resistant	Yes
Reaction to fire	Fca
Brand	Everon™

### Standards

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

### Environmental Conditions

Temperature Range, Installation	0 °C to 50 °C
Temperature Range, Operation	-40 °C to 60 °C

### Cable Design

Conductor	Copper Wire, AWG 24/1
Conductor Insulation	Solid PE
Twisting	2 cores to a pair

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## Cable Design

Outer Jacket Material	PE
Outer Jacket Color	Black

## Mechanical Specifications

Fire Load	390 MJ/km
Nominal Outer Diameter	6.2 mm
Min. Bend Radius Installation	8x Cable-Ø
Maximum Tensile Strength	93 N

## Electrical Characteristics

Conductor resistance unbalance	2 %
Delay skew	45 ns/100 m
Max. loop resistance	190 Ω/km
Propagation delay	545 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)	69 %
Coupling Attenuation	55 dB
Segregation Class	c
Insulation Resistance	> 5000 MΩ*km

## Ordering Information

Product Number	CCXDAE-C0047-C001-L7
Length	1000 m
Weight	36 kg
Packing Type	Drum
Units per Delivery	1/1

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Electrical Characteristics							
Frequency [MHz]	4	10	20	63	100	155	200
Attenuation according to Standard [db/100m]	4.1	6.5	9.3	17.0	22.0		
Typical attenuation [db/100m]	3.8	6.0	8.5	15.2	19.5	25.0	28.0
NEXT according to Standard [db/100m]	56.3	50.3	45.8	38.4	35.3		
Typical NEXT Values [db/100m]	63.0	57.0	52.0	45.0	42.0	39.0	37.0
ACR-N according to Standard [db/100m]	56.3	50.3	45.8	38.4	35.3		
Typical ACR-N Values [db/100m]	59.2	51.0	43.5	29.0	22.5	14.0	9.0



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