Everon® Copper Datacom F/UTP 300/24, Category 5e, LSZH™/FRNC, Eca 4P, Green

Part Number:
UU008049510

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. 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

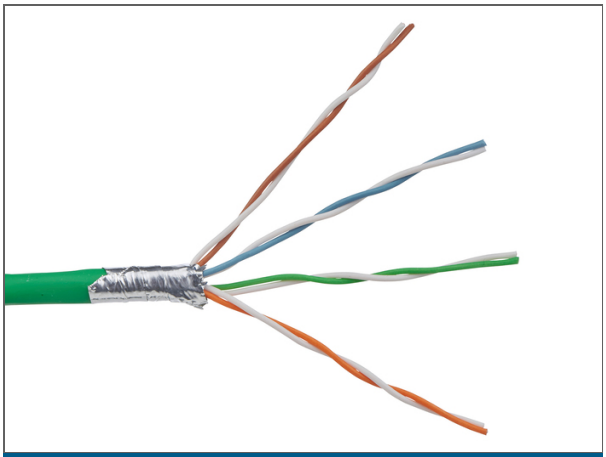
Tested and approved for Power over Ethernet applications (PoE/PoE+/4PPoE) according to IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt up to 90W

Low smoke and halogen-free (LSZH)

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

Length marking on jacket

Eca



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Specifications

General Specifications	
Category	5e
Cable Type	F/UTP
Halogen-free	Yes
Construction	Simplex, 4P
Reaction to Fire	Eca
Legacy Part Number	VOL5EFL4500
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, IEC 60304
Design and Test Criteria	1000 Base-T IEEE 802.3 an; PoE / PoE++ IEEE 802.3af, IEEE 802.3at
Flame propagation test	IEC 60332-1
Smoke density	IEC 61034-2
Halogen content test	Zero Halogen to IEC 60754-1
Level of corrosion	Non-corrosive according to IEC 60754-2

Environmental Conditions	
Temperature Range, Installation	0 °C to 50 °C (32 °F to 122 °F)
Temperature Range, Operation	-20 °C to 60 °C (-4 °F to 140 °F)

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

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CORNING

Cable Design	
Outer Jacket Material	LSZH/FRNC
Outer Jacket Color	Green

Mechanical Specifications	
Fire Load	460 MJ/km
Nominal Outer Diameter	6.1 mm
Min. Bend Radius Installation	8x Cable-Ø
Maximum Tensile Strength	80 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 DC max and less than 50 V AC max
Propagation Velocity at >10 MHz (NVP*c)	69 %
Coupling Attenuation	55 dB
Segregation Class	c
Insulation Resistance	> 5000 MΩ*km

Dimensions	
Weight	39 kg

Ordering Information	
Product Number	UU008049510
Cable Length	500 m
Packaging Method	Drum

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CORNING

Ordering Information	
Units per Delivery	1/1

Electrical Characteristics						
Frequency [MHz]	4	10	20	63	100	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	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	37.0
ACR-N according to Standard [db/100m]	52.2	43.8	36.5	21.4	13.3	
Typical ACR-N Values [db/100m]	59.2	51.0	43.5	29.8	22.5	9.0

RoHS COMPLIANT

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