

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 copper cable specified up to 200 MHz

Fulfills all requirements of category 5e according to EN 50288-2-1 and IEC 61156-5

Ensures high system margins according ISO/IEC 11801 Ed.2.2 (2011) and EN 50173-1 series (2011)

Twisted pair, surrounded by an overall metallic foil shield

LSZH Jacket, CPR Eca

Satisfies Class B + interference radiation as well as immunity standards (EN 55022 and EN 55024)

Supports Power over Ethernet (PoE / PoE+) according IEEE 802.3at

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CORNING

Specifications

Environmental Conditions

Temperature range, installation	0 °C to 50 °C
Temperature range, operation	-20 °C to 60 °C

General Specifications

Environment	Indoor
Category	5E
Cable type	F/UTP
Bandwidth	200 MHz
Halogen-free	Yes
Construction	Simplex, 4P
Reaction to fire	Eca
Legacy Part Number	VOL5EFL4500
Brand	Everon™

Cable Design

Conductor	Copper Wire, AWG 24/1
Conductor insulation	Solid PE
Twisting	2 cores to a pair
Outer jacket material	LSZH™/FRNC
Outer jacket colour	Green

Mechanical Characteristics

Fire load	460 MJ/km
Nominal outer diameter	6.1 mm
Min. bend radius installation	8x Cable-Ø

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Mechanical Characteristics

Maximum tensile strength	80 N
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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
Insulation Resistance	> 5000 MΩ*km

Ordering Information

Product Number	UU008049510
Length	500 m
Weight	39 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 50288-2-1, 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
Flame propagation test	IEC 60332-1
Smoke density	IEC 61034-2

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Standards

Halogen content test	Zero Halogen to IEC 60754-1
Level of corrosion	Non-corrosive according to IEC 60754-2

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



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