Everon™ Copper Datacom F/UTP 450/24, Category 6, LSZH™/FRNC, B2ca 4P, Green

Part Number:
UU009175389

The Everon™ Copper Datacom F/UTP 450/24 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. 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 450/24 cable designed up to 450 MHz

Fulfils all requirements of category 6 EN50288-5-1 and IEC 61156-5

Suitable for Classe D to E according to ISO/IEC 11801. EN50173 and 10 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

Certified by a vendor-independent and impartial test lab

Low smoke and halogen-free (LSZH)

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

Length marking on jacket

B2ca-s1a,d0,a1

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Specifications

General Specifications	
Environment	Indoor
Category	6
Cable Type	F/UTP
Bandwidth	450 MHz
Halogen-free	Yes
Construction	Simplex, 4P
Reaction to fire	B2ca, s1a, d0, a1
Legacy Part Number	VOL6FL4500
Brand	Everon™

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
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
Temperature Range, Operation	-20 °C to 60 °C

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CORNING

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 Color	Green

Mechanical Specifications	
Fire Load	690 MJ/km
Nominal Outer Diameter	7.3 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 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	UU009175389
Length	500 m

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CORNING

Ordering Information	
Weight	53 kg
Packing Type	Drum
Units per Delivery	1/1

Electrical Characteristics								
Frequency [MHz]	4	10	20	63	100	250	300	450
Attenuation according to Standard [db/ 100m]	3.83	6.0	8.53	15.48	19.92	3.02		46.22
Typical attenuation [db/ 100m]	3.6	5.7	8.3	14.8	19.0	31.0	34.0	43.0
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]	71.0	65.0	61.0	53.0	50.0	44.0	43.0	40.0
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]	67.5	59.3	52.7	38.2	31.0	13.0	9.0	

RoHS COMPLIANT

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