Everon® Copper Datacom F/UTP 550/24, Category 6A, LSZH/FRNC, B2ca 4P, green

Part Number:
UU009175728

The Everon® Copper Datacom F/UTP 550/24 cable is designed up to 550MHz and its transmission characteristics exceed Category 6A specifications according to EN50288-10-1 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 realisation of CE-compatible networks.

Features and Benefits

F/UTP 550/24 cable designed up to 550 MHz

Fulfils all requirements of category 6A EN50288-10-1 and IEC 61156-5

Suitable for Classe D to EA 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

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	6A
Cable type	F/UTP
Halogen-free	Yes
Construction	Simplex, 4P
Reaction to fire	B2ca, s1a, d0, a1
Legacy Part Number	VOL6AFL4500
Brand	Everon®

Standards	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	IEC 61156-6; EN 50288-5-2, 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

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

Cable Design	
Conductor	Copper Wire, AWG 24/1
Conductor insulation	Solid PE

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CORNING

Cable Design	
Twisting	2 cores to a pair
Outer jacket material	LSZH/FRNC
Outer jacket colour	Green

Mechanical Characteristics	
Fire load	630 MJ/km
Nominal outer diameter	7.5 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	10 mΩ
Propagation velocity at >10 MHz (NVP*c)	69 %
Coupling attenuation	55 dB
Segregation Class	c
Insulation Resistance	> 5000 MΩ*km

Dimensions	
Weight	495 kg

Equinsa Networking

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CORNING

Ordering Information

Product Number	UU009175728
Packaging method	Drum
Units per delivery	1/1

Electrical Characteristics

Frequency [MHz]	4	10	20	63	100	250	500	550
Attenuation according to Standard [db/100m]	3.8	5.9	8.4	15.0	19.1	31.1	45.3	
Typical attenuation [db/100m]	3.6	5.5	7.9	14.5	18.5	30.0	43.0	50.0
NEXT according to Standard [db/100m]	66.3	60.3	55.8	48.4	45.3	39.3	34.8	
Typical NEXT Values [db/100m]	71.0	65.0	61.0	53.0	50.0	44.0	40.0	39.0
ACR-N according to Standard [db/100m]	62.5	54.4	47.4	33.4	26.2	8.3	-10.4	
Typical ACR-N Values [db/100m]	78.0	70.0	64.0	54.0	50.0	45.0	40.0	39.0

RoHS COMPLIANT

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