

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



CORNING

Part Number:
UU009175397

The Everon™ Copper Datacom U/UTP 450/24 cable is designed up to 450MHz and its transmission characteristics exceed Category 6 specifications according to EN50288-6-1 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. Unshielded cable (U/UTP).

Features and Benefits

U/UTP 450/24 copper cable specified up to 200 MHz

Fulfills all requirements of category 6 according to EN 50288-6-1 and IEC 61156-5

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

Twisted pair, covered by a LSZH Jacket, CPR B2ca-s1a,d0,a1

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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Specifications

Environmental Conditions

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

General Specifications

Environment	Indoor
Category	6
Cable type	U/UTP
Bandwidth	450 MHz
Halogen-free	Yes
Construction	Simplex, 4P
Reaction to fire	B2ca, s1a, d0, a1
Legacy Part Number	VOL6UL4500
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	440 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	40 ns/100 m
Max. loop resistance	190 Ω/km
Propagation delay	520 ns/100 m
Voltage rating	Less than 75 V d.c max and less than 50 V a.c max
Propagation velocity at >10 MHz (NVP*c)	69 %
Coupling attenuation	40 dB
Insulation Resistance	> 5000 MΩ*km

Ordering Information

Product Number	UU009175397
Length	500 m
Weight	36 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 50288-6-1, 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

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Standards

Level of corrosion	Non-corrosive according to IEC 60754-2
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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]	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	14.0	9.0



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