

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



CORNING

Part Number:
DE010024359

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 450 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 LSOH Jacket, CPR Dca-s2,d2,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	Dca, s2, d2, a1
Legacy Part Number	VOL6UL41000
Brand	Everon™

Cable Design

Conductor	Copper Wire, AWG 24/1
Conductor insulation	Halogen-free foam-skin material
Twisting	2 cores to a pair
Outer jacket material	LSZH™/FRNC
Outer jacket colour	Green

Mechanical Characteristics

Fire load	553 MJ/km
Nominal outer diameter	5.4 mm
Min. bend radius installation	8x Cable-Ø

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Mechanical Characteristics

Maximum tensile strength	100 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)	67 %
Coupling attenuation	40 dB
Insulation Resistance	> 5000 MΩ*km

Ordering Information

Product Number	DE010024359
Length	1000 m
Weight	32.41 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

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	33.02		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	



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