

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



**Part Number:**  
**UU009161587**

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 cable designed up to 450 MHz

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

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Suitable for Classe D to E according to ISO/IEC 11801. EN50173 and 10 Gigabit Ethernet according to IEEE 802.3an

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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

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Certified by a vendor-independent and impartial test lab

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Low smoke and halogen-free (LSZH)

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Unshielded cable (U/UTP)

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Length marking on jacket

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Cca-s1a,d0,a1

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## Specifications

General Specifications	
Environment	Indoor
Category	6
Cable Type	U/UTP
Bandwidth	450 MHz
Halogen-free	Yes
Construction	Simplex, 4P
Reaction to fire	Cca-s1a,d0,a1
Legacy Part Number	VOL6UL4305
Brand	Everon®

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

Environmental Conditions	
Halogen-free	Yes
Temperature Range, Installation	0 °C to 50 °C
Temperature Range, Operation	-20 °C to 60 °C

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## 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	440 MJ/km
Nominal Outer Diameter	6.1 mm
Min. Bend Radius Installation	8x Cable-Ø
Maximum Tensile Strength	80 N

## 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	UU009161587
Weight	36 kg
Packing Type	Reelex Box
Units per Delivery	1/1

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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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