

Everon® Copper Datacom U/FTP 250/23, Category 6, LSZH/FRNC, Cca 4P, Blue



Part Number:
CCXERA-BC047-C001-L6

The Everon® Copper Datacom U/FTP 250/23 cable is designed up to 250MHz 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. Due to the very low delay skew between the pairs these Everon® cables are especially suitable for Gigabit Ethernet. The cable has a streamlined construction and low weight. Each twisted pair is individually shielded with a Allaminated foil (U/FTP). 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

U/FTP 250/23 cable designed up to 250 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

Flame retardant and non corrosive (FRNC), Low smoke and halogen-free (LSZH)

Each twisted pair is individually shielded with a Allaminated foil (U/FTP)

Length marking on jacket

Cca-s1,d1,a1

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CORNING

Specifications

General Specifications

Environment	Indoor
Category	6
Cable type	U/FTP
Halogen-free	Yes
Construction	Simplex, 4P
Reaction to fire	Cca, s1, d1, a1
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, IEEE 802.3bt
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 23/1
Conductor insulation	Halogen-free foam-skin material
Twisting	2 cores to a pair
Pair screen	Al-laminated foil around each pair

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Cable Design

Outer jacket material	LSZH/FRNC
Outer jacket colour	Blue

Mechanical Characteristics

Fire load	498 MJ/km
Nominal outer diameter	6.4 mm
Min. bend radius installation	8x Cable-Ø
Maximum tensile strength	100 N

Electrical Characteristics

Conductor resistance unbalance	1 %
Delay skew	8 ns/100 m
Max. loop resistance	170 Ω/km
Propagation delay	430 ns/100 m
Voltage rating	Less than 75 V DC max and less than 50 V ACC max
Surface transfer impedance	100 mΩ
Propagation velocity at >10 MHz (NVP*c)	78 %
Coupling attenuation	60 dB
Segregation Class	c
Insulation Resistance	> 5000 MΩ*km

Ordering Information

Product Number	CCXERA-BC047-C001-L6
Cable length	500 m
Packaging method	Drum
Units per delivery	1/1

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Electrical Characteristics						
Frequency [MHz]	4	10	20	63	100	250
Attenuation according to Standard [db/100m]	3.8	6.0			19.9	33.0
Typical attenuation [db/100m]	3.8	6.0	8.5	15.5	19.9	33.0
NEXT according to Standard [db/100m]		59.3			44.3	38.3
Typical NEXT Values [db/100m]	65.3	59.3	54.8	47.4	44.3	38.3
ACR-N according to Standard		53.3			24.4	5.3
Typical ACR-N Values [db/100m]	61.4	53.3	46.3	31.9	24.4	5.3



Corning Optical Communications GmbH & Co. KG • Leipziger Strasse 121 • 10117 Berlin, Germany
+00 800 2675 4641 • FAX: • www.corning.com/opcomm/emea