Everon™ Copper Datacom S/FTP 550/23, Category 6A, LSZH™/FRNC, B2ca 4P, Blue

Part Number:
CCXEDB-DB047-C001-L7

The Everon™ Copper Datacom S/FTP 550/23 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. Due to the very low delay skew between the pairs these FutureCom cables are especially suitable for Gigabit Ethernet and also for transmission of digital data for future applications up to 10 Gigabit Ethernet according to IEEE 802.3an. The cable has a streamlined construction and low weight. Overall shielding with tinned copper wire braiding and each twisted pair is individually shielded with a Allaminated foil (S/FTP). The cable satisfies Class B interference radiation standards according to EN 55022, as well as immunity according to EN 55024, which enables the realization of CE-compatible networks.

Features and Benefits

S/FTP 550/23 cable specified up to 550 MHz

Fulfils all requirements of category 6A according to standards EN 50288-4-1 and IEC 61156-5

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

Suitable for 10 Gigabit Ethernet according to IEEE 802.3an

Each twisted pair is shielded with metal foil (PIMF), low skew between the pairs

Overall shielding with tinned copper wire braiding

Flame retardant according to IEC 60332-3-24 and EN 50266-2-4 (FR), EN 13501-6, non-corrosive according to IEC 60754-2 (NC) and EN 50267

Low smoke according to IEC 61034 and EN 50268; halogen-free (ZH/0H), no development of toxic gases in case of fire

Satisfies Class B interference radiation as well as immunity standards (EN 55022 and EN 55024)

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Specifications

General Specifications	
Environment	Indoor
Category	6A
Cable type	S/FTP
Bandwidth	550 MHz
Halogen-free	Yes
Construction	Simplex, 4P
Reaction to fire	B2ca, s1a, d1,a1
Brand	Everon™

Standards	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	IEC 61156-5; EN 50288-10-1, 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; IEC 60332-3-24
Smoke density	IEC 61034-2
Halogen content test	Zero Halogen to IEC 60754-1
Level of corrosion	Non-corrosive according to IEC 60754-2

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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CORNING

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
Outer jacket material	LSZH™/FRNC
Outer jacket colour	Blue

Mechanical Characteristics	
Fire load	495 MJ/km
Nominal outer diameter	7.5 mm
Min. bend radius installation	8x Cable-Ø
Maximum tensile strength	145 N

Electrical Characteristics	
Conductor resistance unbalance	1 %
Delay skew	9 ns/100 m
Max. loop resistance	165 Ω/km
Propagation delay	425 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)	79 %
Coupling attenuation	85 dB
Segregation Class	d
Insulation Resistance	> 5000 MΩ*km

Ordering Information	
Product Number	CCXEDB-DB047-C001-L7

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CORNING

Ordering Information	
Length	1000 m
Weight	62 kg
Packing type	Drum
Units per delivery	1/1

Electrical Characteristics										
Frequency [MHz]	1	10	16	20	31	63	100	250	500	550
Attenuation according to Standard [db/100m]	2.1	5.9	7.5	8.4	10.5	15.0	19.1	31.1	45.3	
Typical attenuation [db/100m]	1.8	5.3	6.8	7.6	9.6	13.6	17.3	27.7	41.9	42.6
NEXT according to Standard [db/100m]	75.3	60.3	57.2	55.8	52.9	48.4	45.3	39.3	34.8	
Typical NEXT Values [db/100m]	100.0	100.0	100.0	100.0	100.0	97.0	95.0	90.0	83.0	77.0
ACR-N according to Standard [db/100m]	73.2	54.4	49.8	47.4	42.4	33.4	26.2	8.3	-10.4	
Typical ACR-N Values [db/100m]	98.2	92.4	63.2	92.4	90.4	83.4	77.7	62.3	41.1	34.4

RoHS COMPLIANT

Corning Optical Communications GmbH & Co. KG • Lelpziger Strasse 121 • 10117 Berlin, Germany
+00 800 2675 4641 • FAX: +49 30 5303 2335 • www.corning.com/opcomm/emea