FutureCom™ S/FTP 800/23, blue Category 7, 250 m

Part Number:
CCXEDB-F0047-C001-X2

The FutureCom™ copper data cables with high-density braiding are especially interference-resistant and therefore particularly suitable for deployment in environments of increased electromagnetic interferences, such as data centers and manufacturing areas as well as recommended for high quality conscious customers.

Features and Benefits

S/FTP 800/23 copper cable specified up to 1000 MHz

Fulfills all requirements of category 7 according to 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 802.3 an

Each twisted pair is individually shielded with a Al-laminated foil around each pair (PIMF)

Overall shielding with tinned copper wire braiding

Flame retardant according to IEC 60332-1 and IEC 60332-3, EN 13501-6 and EN 50575 as well as non-corrosive according to IEC 60754-2 (NC)

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)

Supports Power over Ethernet (PoE / PoE+/ PoE++) according IEEE 802.3bt

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Specifications

General Specifications	
Environment	Indoor
Category	7
Bandwidth	1000 MHz
Halogen-free	Yes
Construction	Simplex, 4P
Product Category	Core Product / Fastship
Reaction to fire	Dca, s2, d2, a1
Cable Type	S/FTP

Cable Design	
Conductor	Copper Wire, AWG 23
Conductor Insulation	Halogen-free foam-skin material
Twisting	2 cores to a pair
Pair screen	Al-laminated foil around each pair
Overall screen	Copper braid, tinned
Outer Jacket Material	LSZH™/FRNC
Outer Jacket Color	Blue

Mechanical Specifications	
Fire Load	0.62 MJ/m
Nominal Outer Diameter	7.5 mm

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CORNING

Mechanical Specifications

Min. Bend Radius Installation	8x Cable-Ø (over flat side)
Maximum Tensile Strength	154 N

Electrical Characteristics

Conductor resistance unbalance	1 %
Delay skew	9 ns/100 m
Max. loop resistance	154 Ω/km
Propagation delay ≥10 MHz	4.25 ns/m
Coupling Attenuation	85 dB
Insulation Resistance	5000 MΩ*km
Surface transfer impedance	10 mΩ
Propagation Velocity at >10 MHz (NVP*c)	0.79

Ordering Information

Weight	61 kg/km
Packing Type	Reelex Box

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Flame Test Method	Flame retardant according to IEC 60332-1-2 (single cable), IEC 60332-3-24 (bunch of cables) Reaction to fire according to EN 50575 and EN 13501-6 Non-corrosive according to IEC 60754-2

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Environmental Conditions	
Temperature Range, Installation	0 °C - 50 °C (32 °F - 122 °F)
Temperature Range, Operation	-20 °C - 60 °C (-4 °F - 140 °F)

Electrical Characteristics							
Frequency [MHz]	1	4	10	100	300	800	1000
Attenuation according to Standard [db/100m]	2.0		5.7	18.5	33.3		
Typical attenuation [db/100m]	1.8	3.4	5.0	16.9	30.7	51.0	58.0
NEXT according to Standard [db/100m]	80.0		80.0	72.4	65.3		
Typical NEXT Values [db/100m]	102.0	102.0	102.0	102.0	95.0	90.0	80.0
ACR-N according to Standard [db/100m]	78.0		74.3	53.9	32.0		
Typical ACR-N Values [db/100m]	100.2	98.6	97.0	85.1	64.3	39.0	22.0

RoHS COMPLIANT

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