

FutureCom™ S/FTP 1200/22, blue Category 7A+, 1000 m



Part Number: CCXFCB-L0047-C001-L7

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 1200/22 copper cable specified up to 1400 MHz

Fulfils all requirements of Cat.7A+ according to EN 50288-9-1, IEC 61156-5 and IEC 61156-7

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 shielded with aluminum 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/OH), 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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CORNING

Specifications

General Specifications

Environment	Indoor
Category	7A+
Bandwidth	1400 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 22
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	0.66 MJ/m
Nominal Outer Diameter	7.7 mm

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Mechanical Specifications

Min. Bend Radius Installation	8x Cable-Ø (over flat side)
Maximum Tensile Strength	179 N

Electrical Characteristics

Conductor resistance unbalance	1 %
Delay skew	6 ns/100 m
Max. loop resistance	118 Ω/km
Propagation delay ≥10 MHz	4.2 ns/m
Voltage rating	Less than 75 V d.c max and less than 50 V a.c max
Insulation Resistance	5000 MΩ*km
Surface transfer impedance	2 mΩ
Propagation Velocity at >10 MHz (NVP*c)	0.77
Coupling Attenuation	90 dB

Ordering Information

Weight	66 kg/km
Packing Type	Drum

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Flame Test Method	Flame retardant according to IEC 60332-3-24 and EN 50266-2-4 Reaction to fire according to EN 13501-6

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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	600	1000	1200	1400
Attenuation according to Standard		3.5	5.4	17.5	31.5	46.3	62.0	69.0	
Typical attenuation [db/100m]	1.7	3.5	4.5	15.4	28.3	40.2	52.1	57.1	61.3
NEXT according to Standard		78.0	78.0	76.0	69.0	64.0	61.0	60.0	
Typical NEXT Values [db/100m]	105.0	105.0	105.0	105.0	102.0	97.0	90.0	87.0	83.0
ACR-N according to Standard		74.5	72.6	58.5	37.5	17.7			
Typical ACR-N Values [db/100m]	103.3	101.8	100.5	89.6	73.7	56.8	37.9	29.9	21.7



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