

FutureCom™ S/FTP 1000/23, Category 7A, LSZH™/FRNC, Dca 4P, Blue

CORNING

Part Number:
CCXEDB-I0047-C001-L7

FutureCom™ S/FTP 1000/23, 4P, LSOH-3 Cable:
twisted pair, foilshielded pair (PIMF) and braid shield,
spec. up to 1200MHz, AWG 23, LSZH flame-retardant
acc. to IEC60332-3 and IEC60332-1, Cat.7A acc.
to ISO/IEC11801, FRNC, Dca,s1,d1,a1

Features and Benefits

S/FTP 1000/23 cable specified up to 1200 MHz

Fulfills all requirements of category 7A according to
standards EN 50288-9 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/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)

Certified by a vendor-independent and impartial test lab
(GHMT AG)

Supports Power over Ethernet (PoE / PoE+ / PoE++)



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Specifications

Environmental Conditions

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

General Specifications

Environment	Indoor
Category	7A
Cable Type	S/FTP
Bandwidth	1200 MHz
Halogen-free	Yes
Construction	Simplex, 4P
Reaction to fire	Dca - s1, d1, a1

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
Outer Jacket Material	LSZH™/FRNC
Outer Jacket Color	Blue

Mechanical Specifications

Fire Load	620 MJ/m
Nominal Outer Diameter	7.5 mm
Min. Bend Radius Installation	8x Cable-Ø (over flat side)
Maximum Tensile Strength	154 N

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Electrical Characteristics

Conductor resistance unbalance	1 %
Delay skew	12 ns/100 m
Max. loop resistance	135 MΩ*km
Propagation delay	439 ns/100 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	10 mΩ
Propagation Velocity at >10 MHz (NVP*c)	76 %
Coupling Attenuation	85 dB

Ordering Information

Length	1000 m
Weight	61 kg
Weight	61 kg/km
Packing Type	Drum

Standards

Flame propagation test	Flame retardant according to IEC 60332-3-24
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	IEC 61156-5; EN 50288-9-1, ISO/IEC 11801 Ed. 2.2; EN 50173-1, ANSI/TIA -568-C-2; IEC60304
Design and Test Criteria	Compliant with PoE / PoE++ IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt IEEE 802.3 an 1000 Base-T
Smoke density	Low Smoke to IEC 61034
Halogen content test	Zero Halogen to IEC 60754-1
Level of corrosion	Non-corrosive according to IEC 60754-2

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Electrical Characteristics

Frequency [MHz]	1	4	10	100	300	600	1000	1200
Attenuation according to Standard								
Typical attenuation [db/100m]	1.7	3.3	5.0	16.7	29.5	42.0	56.0	62.0
NEXT according to Standard								
Typical NEXT Values [db/100m]	105.0	105.0	105.0	105.0	100.0	95.0	88.0	85.0
ACR-N according to Standard								
Typical ACR-N Values [db/100m]	103.3	101.7	100.0	88.3	70.5	53.0	32.0	23.0



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