

FutureCom™ S/FTP 550/23, Category 6A, LSZH™/FRNC, Cca 4P, blue

CORNING

Part Number:
CCXEDB-DC047-C001-L7

FutureCom™ S/FTP 550/23, LSOH-3 Cable: twisted pair, foil shielded pair(PIMF) and braid shield, spec. up to 550MHz, AWG 23, LSZH flame-retardant acc. to IEC60332-3-24, Blue, Cat.6A acc. ISO/IEC11801, FRNC, Cca -s1a, d1, a1

Features and Benefits

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

Fulfills all requirements of category 6A according to EN 50288-10-1 and IEC 61156-5

Ensures high system margins according ISO/IEC 11801 Ed.2.2 (2011) and EN 50173-1

Suitable for 10 Gigabit Ethernet according to IEEE 802.3an

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

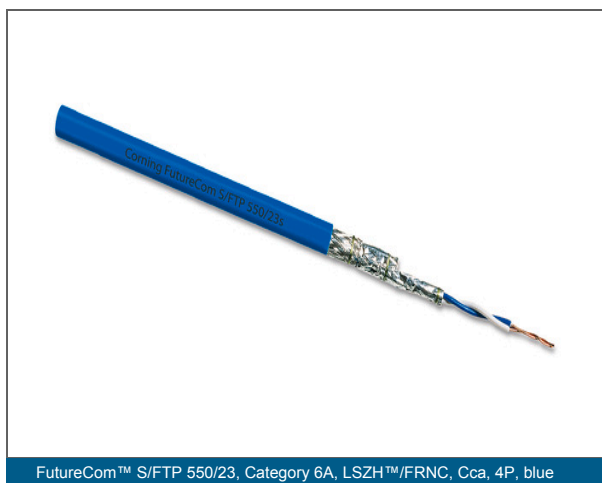
Overall shielding with tinned copper wire braiding

Flame retardant according to IEC 60332-1 and IEC 60332-3-24, 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)

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



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Specifications

Environmental Conditions

Temperature range, installation	0 °C to 50 °C
Temperature range, operation	-20 °C to 60 °C

General Specifications

Environment	Indoor
Category	6A
Cable type	S/FTP
Bandwidth	550 MHz
Halogen-free	Yes
Construction	Simplex, 4P
Reaction to fire	Cca, s1a, 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 colour	Blue

Mechanical Characteristics

Fire load	482 MJ/m
Nominal outer diameter	7.4 mm
Min. bend radius installation	8x Cable-Ø (over flat side)
Maximum tensile strength	145 N

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Electrical Characteristics

Conductor resistance unbalance	1 %
Delay skew	9 ns/100 m
Max. loop resistance	165 MΩ*km
Propagation delay	425 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)	79 %
Coupling attenuation	85 dB

Ordering Information

Product Number	CCXEDB-DC047-C001-L7
Length	1000 m
Weight	59 kg
Weight	59 kg/km
Packing type	Drum

Standards

Flame propagation test	Flame retardant according to IEC 60332-3-24 and EN 50266-2-4
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	IEEE 802.3 an 1000 Base-TCompliant with PoE / PoE++ IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt
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	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	94.7	63.2	92.4	90.4	83.4	77.7	62.3	41.1	34.4



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