

FutureCom™ F/FTP 550/23, blue Category 6A, 305 m



CORNING

Part Number:
CCXEDA-D0047-C001-M4

The cable thus exceeds the requirements for EN 55022 Class B emission and EN 55024 immunity, enabling networks to be built which are compliant with the standards on electromagnetic compatibility.

Features and Benefits

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

Fullfill the requirements of the standarts IEC 61156-5; EN 50288-10-1

Outstanding electrical characteristics

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

Low propagation delay and low delay skew between the pairs

Halogen-free (LSZH™)

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 61034-2

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

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Specifications

Environmental Conditions

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

General Specifications

Environment	Indoor
Category	6A
Cable Type	F/FTP
Bandwidth	550 MHz
Halogen-free	Yes
Area/Range of Application	Dry and damp rooms
Construction	Simplex, 4P
Product Category	Core Product
Reaction to fire	Dca, s2, d2, 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

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Mechanical Specifications

Fire Load	0.62 MJ/m
Nominal Outer Diameter	7.3 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 ≥10 MHz	4.25 ns/m
Insulation Resistance	5000 MΩ*km
Surface transfer impedance	100 mΩ
Propagation Velocity at >10 MHz (NVP*c)	79 %
Coupling Attenuation	70 dB
Voltage rating	Less than 75 V d.c max and less than 50 V a.c max

Ordering Information

Weight	49 kg/km
Packing Type	Drum

Standards

RoHS Free of hazardous substances according to RoHS 2011/65/EU

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Standards

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 Low smoke according to IEC 61034
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Electrical Characteristics

Frequency [MHz]	1	10	16	20	31	62	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							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	93.2	92.4	90.4	83.4	77.7	62.3	41.1	34.4	



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