

FutureCom™ F/FTP 550/23, blue Category 6A, 500 m



CORNING

Part Number: CCXEDA-D0087-C001-L6

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	Duplex, 8P
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	1.2 MJ/m
Nominal Outer Diameter	7.3 mm 15.6 mm
Min. Bend Radius Installation	8x Cable-Ø
Maximum Tensile Strength	190 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	99 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 Non-corrosive according to IEC 60754-2 Low smoke according to IEC 61034

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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