

# FutureCom™ F/FTP 550/23, Category 6A, LSZH™/FRNC, Dca 4P, Blue

CORNING

**Part Number:**  
**CCXEDA-D0047-C001-L6**

FutureCom™ F/FTP 550/23, LSOH-3 Cable: twisted pair, Each pair is individually foil shielded covered by an overall screen in LSOH-3 jacket, spec. up to 550MHz, AWG 23, LSOH-3 acc. to IEC 60332-3-24, Cat.6A acc. ISO/IEC11801, Dca -s1, d1, a1

## Features and Benefits

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

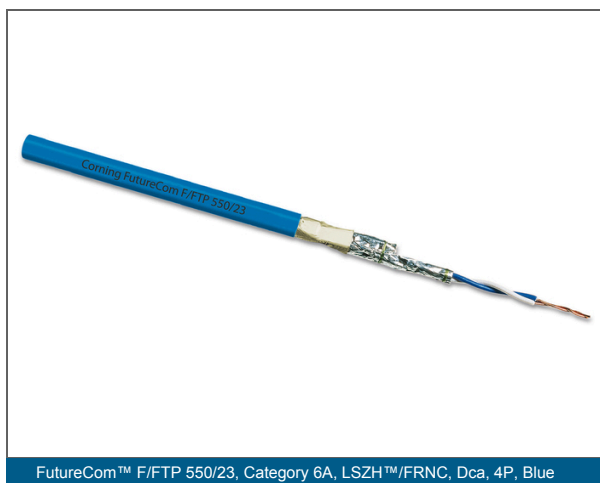
Fulfills all requirements of category 6A according to EN 50288-10-1 and IEC 61156-5

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

Each pair is individually foil shielded covered by an overall screen in LSOH-3 jacket, CPR Dca-s1,d1,a1

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	F/FTP
Bandwidth	550 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 colour	Blue

### Mechanical Characteristics

Fire load	620 MJ/m
Nominal outer diameter	7.3 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	100 mΩ
Propagation velocity at >10 MHz (NVP*c)	79 %
Coupling attenuation	70 dB

## Ordering Information

Product Number	CCXEDA-D0047-C001-L6
Length	500 m
Weight	49 kg
Weight	49 kg/km
Packing type	Drum

## Standards

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, TIA/EIA 568-C.2; IEC 60304
Design And Test Criteria	IEEE 802.3 an 1000 Base-T Compliant with PoE / PoE++ IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt
Flame propagation test	Flame retardant according to IEC 60332-1-2 (single cable) and IEC 60332-3-24 (bunch of cables)
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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