

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

CORNING

**Part Number:**  
**CCXEDR-D0047-C003-L7**

FutureCom™ S/FTP 550/23s, LSOH-1 Cable: twisted pair, foil shielded pair(PIMF) and braid shield, spec. up to 550MHz, AWG 23s, LSOH-1 acc. to IEC60332-1, Cat.6A acc. ISO/IEC11801, FRNC, Dca -s1, d1, a1

## Features and Benefits

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

Fulfils all requirements of category 6A according to standards EN 50288-10-1 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 802.3an

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

Overall shielding with tinned copper wire braiding

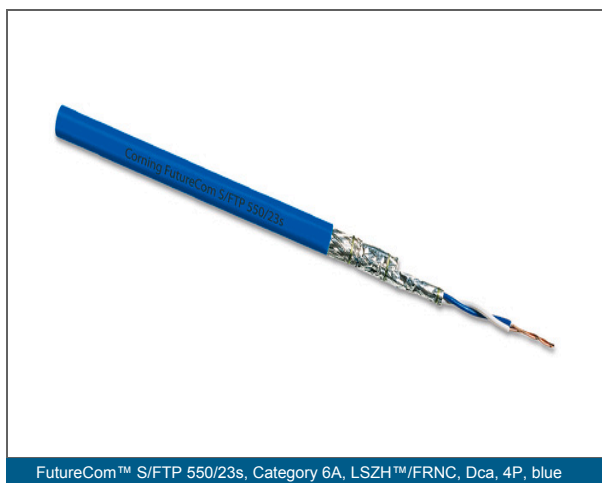
Flame retardant according to IEC 60332-1, EN 13501-6 and EN 50575 as well as non-corrosive according to IEC 60754-2 (NC)

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

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



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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	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	500 MJ/m
Nominal Outer Diameter	7 mm
Min. Bend Radius Installation	8x Cable-Ø (over flat side)
Maximum Tensile Strength	113 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	80 dB

## Ordering Information

Product Number	CCXEDR-D0047-C003-L7
Length	1000 m
Weight	48 kg
Weight	48 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, 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
Flame propagation test	Flame retardant according to IEC 60332-1-2 (single cable)
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	93.2	92.4	90.4	83.4	77.7	62.3	41.1	34.4



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