

# FutureCom™ S/FTP 550/23s, blue Category 6A, 250 m

CORNING

## Part Number: CCXEDR-D0047-C003-X2

The particularly cost-effective FutureCom™ copper data cables with standard braiding offer solid transmission performance in typical local area applications, such as offices, retail areas, hotels and other environments without high electromagnetic interferences. In the light of the attractive price/performance ratio this cable type is interesting for cost-oriented customers.

## 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

Fulfils all requirements of category 6A according to standards EN 50288-4-1 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 shielded with metal foil (PIMF), low skew between the pairs

Overall shielding with tinned copper wire braiding

Flame retardant according to IEC 60332-1 and EN

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## Specifications

### General Specifications

Environment	Indoor
Category	6A
Bandwidth	550 MHz
Halogen-free	Yes
Construction	Simplex, 4P
Product Category	Core Product
Reaction to fire	Dca - s1, d1, a1
Cable Type	S/FTP

### 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
Overall screen	Copper braid, tinned
Outer Jacket Material	LSZH™/FRNC
Outer Jacket Color	Blue

### Mechanical Specifications

Fire Load	0.5 MJ/m
Nominal Outer Diameter	7 mm

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## Mechanical Specifications

Min. Bend Radius Installation	8x Cable-Ø (over flat side)
Maximum Tensile Strength	113 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 impedence	10 mΩ
Propagation Velocity at >10 MHz (NVP*c)	0.79
Coupling Attenuation	80 dB

## Ordering Information

Weight	46 kg/km
Packing Type	Reelex Box

## Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Flame Test Method	Flame retardant according to IEC 60332-1 and EN 50575
Reaction to fire requirements	Reaction to fire according to EN 13501-6

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## Environmental Conditions

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

## 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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