

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

CORNING

Part Number:
CCXEDB-DC047-C001-L6

FutureCom™ S/FTP 550/23, LSOH-3 Cable: twisted pair, foil shielded pair(PIMF) and braid shield, spec. up to 550MHz, AWG 23, LSZH flame-retardant acc. to IEC60332-3-24, Blue, Cat.6A acc. ISO/IEC11801, FRNC, Cca -s1a, d1, a1

Features and Benefits

S/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

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 and IEC 60332-3-24, 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



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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 | Cca, s1a, 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 | 482 MJ/m |
| Nominal Outer Diameter | 7.4 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 | 10 mΩ |
| Propagation Velocity at >10 MHz (NVP*c) | 79 % |
| Coupling Attenuation | 85 dB |

Ordering Information

| | |
|--------------|----------|
| Length | 500 m |
| Weight | 59 kg |
| Weight | 59 kg/km |
| Packing Type | Drum |

Standards

| | |
|--------------------------|--|
| Flame propagation test | Flame retardant according to IEC 60332-3-24 and EN 50266-2-4 |
| 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 | IEEE 802.3 an 1000 Base-T Compliant with PoE / PoE++ IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt |
| 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 | | | | | | | | | | |
| 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 | | | | | | | | | | |
| 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 | | | | | | | | | | |
| 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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