

FutureCom™ S/FTP 2000/22, blue Category 8.2, 1000 m

CORNING

Part Number:
CCXFCB-ND047-C001-L7

The FutureCom™ copper data cables with high -density braiding are especially interference -resistant and therefore particularly suitable for deployment in environments of increased electromagnetic interferences, such as data centres and manufacturing areas as well as recommended for high quality conscious customers.

Transmission of 40GbE/s are supported.

Features and Benefits

S/FTP 2000/22 cable specified up to 2000 MHz

Fulfills all requirements according to standards EN 50288-12-1, IEC 61156-9, EN 50173-1 and ISO/IEC 11801

Each twisted pair is shielded with metal foil (PIMF)

Wire colour coding: white/blue, white/orange, white/green, white/brown

Complete shielding with tinned copper braid shield (coverage approx. 60%)

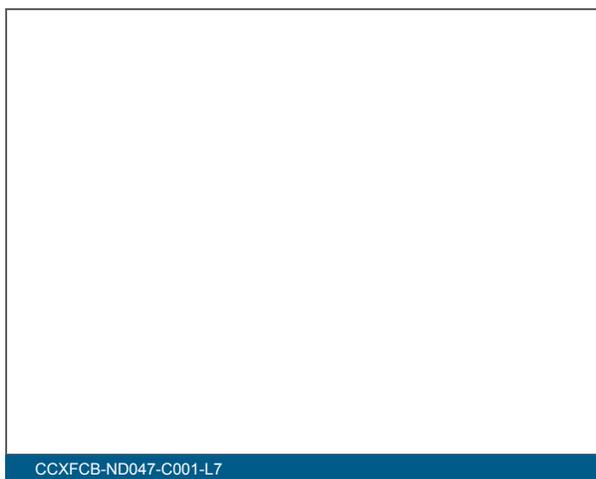
Streamlined design, lightweight

Low skew between the pairs

Flame retardant according to IEC 60332-3-24 and EN 13501-6, non-corrosive according to IEC 60754-2 (NC) and IEC 61034

Low smoke according to IEC 61034 and EN 50268; halogen-free (LSZH™)

No development of toxic gases in case of fire



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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 | 8.2 |
| Cable type | S/FTP |
| Bandwidth | 2000 MHz |
| Halogen-free | Yes |
| Construction | Simplex, 4P |
| Reaction to fire | Dca, s2, d2, a1 |

Cable Design

| | |
|-----------------------|------------------------------------|
| Conductor | 22 AWG |
| 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 colour | Blue |

Mechanical Characteristics

| | |
|-------------------------------|-----------------------------|
| Fire load | 0.54 MJ/m |
| Nominal outer diameter | 7.9 mm |
| Min. bend radius installation | 8x Cable-Ø (over flat side) |

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| Mechanical Characteristics | |
|----------------------------|-----------------------------|
| Min. bend radius operation | 3x Cable-Ø (over flat side) |
| Maximum tensile strength | 140 N |

| Electrical Characteristics | |
|---|---|
| Conductor resistance unbalance | 1 % |
| Delay skew | 6 ns/100 m |
| Max. loop resistance | 130 Ω/km |
| Propagation delay | 20 ns/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 | 2 mΩ |
| Propagation velocity at >10 MHz (NVP*c) | 0.73 |
| Coupling attenuation | 85 dB |

| Ordering Information | |
|-------------------------|----------------------|
| Product Number | CCXFCB-ND047-C001-L7 |
| Maximum delivery length | 1000 m |
| Weight | 67 kg/km |
| Packing type | Drum |

| Standards | |
|------------------------|--|
| Flame propagation test | Flame retardant according to IEC 60332-3-24 and EN 50266-2-4 |

| Electrical Characteristics | | | | | | | | | | | |
|---|-----|-----|-----|------|------|------|------|------|------|------|------|
| Frequency [MHz] | 1 | 4 | 10 | 100 | 300 | 600 | 1000 | 1200 | 1500 | 1600 | 2000 |
| Attenuation according to Standard [db/100m] | 2.1 | 3.8 | 5.8 | 19.0 | 32.7 | 47.1 | 61.9 | 68.4 | 77.2 | 80.0 | 90.5 |

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| Electrical Characteristics | | | | | | | | | | | |
|---------------------------------------|-------|-------|-------|-------|------|------|------|------|-------|-------|-------|
| Typical attenuation [db/100m] | 1.9 | 3.5 | 5.0 | 18.0 | 29.0 | 46.0 | 58.0 | 64.0 | 75.0 | 76.0 | 83.0 |
| NEXT according to Standard [db/100m] | 78.0 | 78.0 | 78.0 | 75.4 | 68.2 | 64.0 | 60.4 | 59.0 | 57.8 | 57.3 | 55.9 |
| Typical NEXT Values [db/100m] | 105.0 | 102.0 | 102.0 | 100.0 | 97.0 | 96.0 | 89.0 | 87.0 | 83.0 | 78.0 | 75.0 |
| ACR-N according to Standard [db/100m] | 76.0 | 74.3 | 72.2 | 56.9 | 35.6 | 16.6 | -1.5 | -9.2 | -19.0 | -23.0 | -35.0 |
| Typical ACR-N Values [db/100m] | 103.0 | 99.0 | 97.0 | 82.0 | 68.0 | 50.0 | 31.0 | 23.0 | 8.0 | 2.0 | -8.0 |



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