

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



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
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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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