

FutureCom™ SF/UTP 300/24s FRNC, blue

Category 5e, 500 m

CORNING

The FutureCom™ SF/UTP 300/24 cable is designed for applications up to 300 MHz and its transmission characteristics exceed Category 5 and category 5e (TIA/EIA 568-A-5) specifications.

High system margins for the complete link according to ISO/IEC 11801 Ed.2.2 (AMD 2:2010) and EN 50173 (Series) will be achieved by using corresponding hardware together with this copper data cable.

Due to the very low delay skew between the pairs these FutureCom cables are especially suitable for Gigabit Ethernet. The cable has a streamlined construction and low weight.

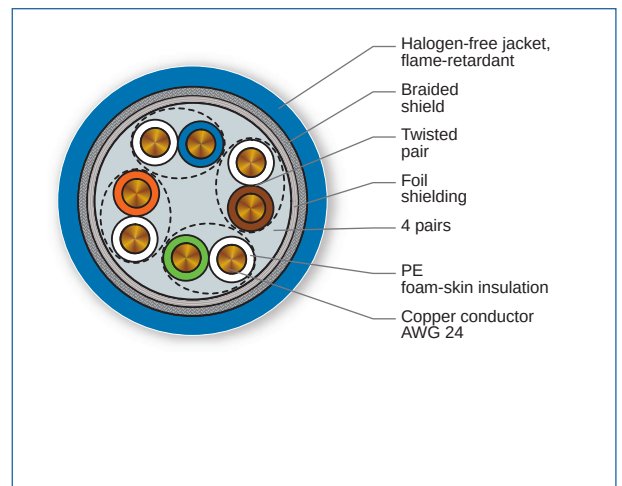
The four stranded pairs are sheathed with a foil shield (F/UTP) and additionally with a braid shield (SF/UTP), which guarantees outstanding shielding characteristics. The cable satisfies Class B interference radiation standards according to EN 55022, as well as immunity according to EN 55024, which enables the realisation of CE-compatible networks.

Features

- SF/UTP 300/24s cable specified up to 300 MHz
- Outstanding electrical characteristics
- Stranded Pairs
- Full shielding with foil shield and additional braid shield
- Streamlined design, lightweight
- Lightweight
- Low skew between the pairs
- Halogen-free (LSZH™)
- Flame retardant according to IEC 60332-1 and EN 50265-2-1
- Non-corrosive according to IEC 60754-2 (FRNC) and EN 50267



Part Number: CCXDES-C0047-C001-L6



Cross Section of Order Number: CCXDES-C0047-C001-L6

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Specifications

General Specifications

Environment	Indoor
Cable type	SF/UTP
Category	5
Bandwidth	300 MHz
Halogen-free	Yes

Temperature Range

Installation and assembly	0 °C to 50 °C
Operation	-20 °C to 60 °C

Cable design

No. of pairs	4
Outer jacket material	LSZH™/FRNC
Outer jacket colour	blue

Mechanical Characteristics

Conductor Insulation	Halogen-free foam-skin material
Min. bend radius operation	3x Cable-Ø (over flat side)
Min. bend radius installation	8x Cable-Ø (over flat side)
Copper conductor	AWG 24
Fire Load	0.39 MJ/m
Maximum Tensile Strength	82 N
Nominal outer diameter	5.8 mm

Electrical characteristics (at 20°C)

Largest resistance margin	1 %
Insulation Resistance	> 5000 MΩ x km
Surface transfer impedance	< 10 mΩ/m at 10 MHz
Propagation velocity at >10 MHz (NVP*c)	0.74 * c
Propagation delay ≥10 MHz	4.5 ns/m
Delay skew	7 ns/100 m

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Electrical characteristics (at 20°C)

Coupling attenuation	≤ 80 dB
Max. loop resistance	185 Ω/km

Electrical characteristics (at 20°C)

Frequency [MHz]*	1	10	16	20	31.25	62.5	100	250	300
Attenuation according to Standard [dB/100 m]*	3.2	6.3	8.0	9.0	11.4	16.5	21.3	-	-
Typical attenuation [dB/100 m]*	2.9	5.6	7.2	8.0	10.1	14.4	18.2	29.5	32.2
NEXT according to Standard [dB/100 m]*	65.0	50.3	47.2	45.8	42.9	38.4	35.3	-	-
Typical NEXT Values [dB/100 m]*	70.0	62.0	59.0	57.0	54.0	50.0	46.0	38.5	35.0
ACR-N according to Standard [dB/100 m]*	-	44.0	39.2	36.8	31.5	21.9	14.0	-	-
Typical ACR-N Values [dB/100 m]*	67.1	56.4	51.8	49.0	43.9	35.6	27.8	9.0	2.8

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Ordering Information

Part Number	CCXDES-C0047-C001-L6
Product Description	FutureCom™ SF/UTP 300/24s, FRNC, 500 m
Weight	38 kg/km
Length	500 m

Shipping Information

Maximum delivery length	500 m
Packing type	Drum



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