

FutureCom™ F/UTP 300/24 FRNC, blue

Category 5e, 1000 m

CORNING

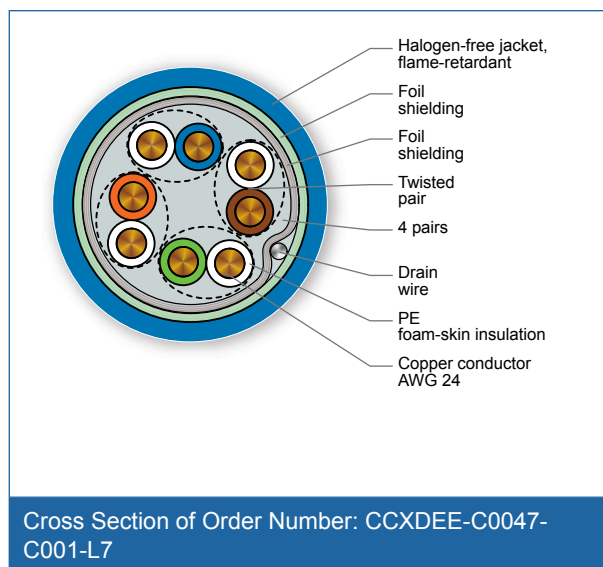
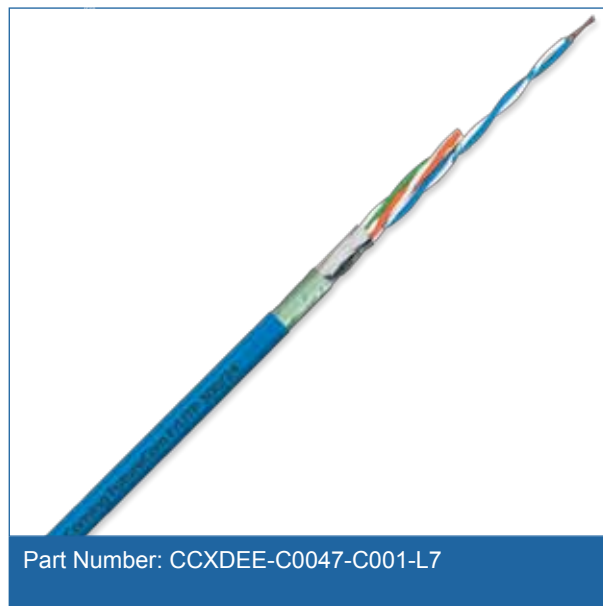
The FutureCom™ F/UTP 300/24 cable is designed for applications up to 300 MHz and its transmission characteristics exceed Category 5 (2002) and category 5e (TIA/EIA 568-A-5) specifications.

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 foil shielded (F/UTP). 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

- F/UTP 300/24 cable specified up to 300 MHz
- Outstanding electrical characteristics
- Stranded Pairs
- Double foil shielding and additional copper wire
- Streamlined design
- Lightweight
- Low skew between the pairs
- Halogen-free (LSZH)
- Flame retardant according to IEC 60332-3-24 and EN 50266-2-4
- Non-corrosive according to IEC 60754-2 (FRNC) and EN 50267



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Specifications

General Specifications	
Environment	Indoor
Cable Type	F/UTP
Category	5/ 5 _e
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
Area/range of application	Dry and dump rooms
Min. Bend Radius Operation	≥ 18 mm (for 2x (4x2...) over flat side)
Min. Bend Radius Installation	≥ 50 mm (for 2x (4x2...) over flat side)
Copper conductor	AWG 24
Fire Load	0.46 MJ/m
Maximum Tensile Strength	82 N
Nominal Outer Diameter	6.1 mm

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Electrical characteristics (at 20°C)

Largest resistance margin	1 %
Insulation resistance	> 5000 MΩ x km
Impedance Z_o at 0.064 MHz	125 Ω +/- 20%
Impedance Z_o at 1-100 MHz	100 Ω +/- 15%
Surface transfer impedance	< 10 mΩ/m at 10 MHz
Unbalance to ground dB/ref. length = 1000 m	> 46 dB at 64 kHz
Unbalance to ground dB/ref. length = 100 m	> 40 dB at 1 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
Coupling Attenuation	75 dB

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]*	2.1	6.3	8.0	9.0	11.4	16.5	21.3	-	-
Typical attenuation [dB/100 m]*	2.1	6.1	7.6	8.5	10.5	15.1	19.3	31.5	34.1
NEXT according to standard [dB/100 m]*	65.3	50.3	47.2	45.8	42.9	38.4	35.3	-	-
Typical NEXT values [dB/100 m]*	77.0	62.0	59.0	57.0	54.0	50.0	46.0	38.5	35.0
PSNEXT according to standard [dB/100 m]*	62.3	47.3	44.2	42.8	39.9	35.4	32.3	-	-
Typical PSNEXT values [dB/100 m]*	75.0	60.0	57.0	55.0	52.0	48.0	44.0	36.5	33.0
ACR-F according to standard [dB/100 m]*	63.8	43.8	39.7	37.8	33.9	27.9	23.8	-	-
Typical ACR-F values [dB/100 m]*	72.0	60.0	54.0	52.0	48.0	40.0	34.0	22.1	17.0
PSACR-F according to standard [dB/100 m]*	60.8	40.8	36.7	34.8	30.9	24.9	20.8	-	-
Typical PSACR-F values [dB/100 m]*	70.0	58.0	52.0	50.0	46.0	38.0	32.0	20.1	15.0
ACR-N according to Standard [dB/100 m]*	63.2	44.0	39.2	36.8	31.5	21.9	14.0	-	-
Typical ACR-N values [dB/100 m]*	74.9	55.9	51.4	48.5	43.5	34.9	26.7	7.0	0.9

Chemical characteristics

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

Part Number	CCXDEE-C0047-C001-L7
Product Description	FutureCom™ F/UTP 300/24, FRNC, 1000 m
Weight	40 kg/km
Length	1,000 m



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