FutureCom™ F/UTP 300/24 FRNC, blue Category 5e, 1000 m

Part Number:
CCXDEE-C0047-C001-L7

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 realization of CE-compatible networks.

Features and Benefits

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

Lightweight

Low skew between the pairs

Halogen-free (LSZH™)

Flame retardant according to IEC 60332-1 and EN 50266-2-4 (FR), EN 13501-6, non-corrosive according to IEC 60754-2 (NC) and EN 50267

Low smoke according to IEC 61034 and EN 50268

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Specifications

General Specifications	
Environment	Indoor
Category	5/5e
Bandwidth	300 MHz
Halogen-free	Yes
Area/Range of Application	Dry and damp rooms
Reaction to fire	Eca

Cable Design	
Conductor	Copper Wire, AWG 24
Conductor Insulation	Halogen-free foam-skin material
Twisting	2 cores to a pair
Outer Jacket Material	LSZH™/FRNC
Outer Jacket Color	Blue

Mechanical Specifications	
Fire Load	0.46 MJ/m
Nominal Outer Diameter	6.1 mm
Min. Bend Radius Installation	8x Cable-Ø (over flat side)
Maximum Tensile Strength	82 N

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Electrical Characteristics	
Conductor resistance unbalance	1 %
Delay skew	7 ns/100 m
Propagation delay ≥10 MHz	4.5 ns/m
Voltage rating	Less than 75 V d.c max and less than 50 V a.c max
Surface transfer impedance	10 mΩ
Impedance Zo at 1-100 MHz	100 Ω ± 15%
Coupling Attenuation	75 dB
Impedance Z0 at 0.064 MHz	125 Ω ± 20%

Standards	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Flame Test Method	Flame retardant according to IEC 60332-1-2 (single cable) Reaction to fire according to EN 13501-6

Electrical Characteristics									
Frequency [MHz]	1	10	16	20	31	62	100	250	300
Attenuation according to Standard [db/100m]	2.1	6.3	8.0	9.0	11.4	16.5	21.3		
Typical attenuation [db/100m]	2.1	6.1	7.6	8.5	10.5	15.1	19.3	31.5	34.1
NEXT according to Standard [db/100m]	65.3	50.3	47.2	45.8	42.9	38.4	35.3		
Typical NEXT Values [db/100m]	77.0	62.0	59.0	57.0	54.0	50.0	46.0	38.5	35.0
ACR-N according to Standard [db/100m]	63.2	44.0	39.2	36.8	31.5	21.9	14.0		
Typical ACR-N Values [db/100m]	74.9	55.9	51.4	48.5	43.5	34.9	26.7	7.0	0.9

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Corning Optical Communications GmbH & Co. KG • Lelpziger Strasse 121 • 10117 Berlin, Germany
+00 800 2675 4641 • FAX: +49 30 5303 2335 • www.corning.com/opcomm/emea