

FutureCom™ F/UTP 300/24 PE, black

Category 5e, 1000 m

CORNING

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

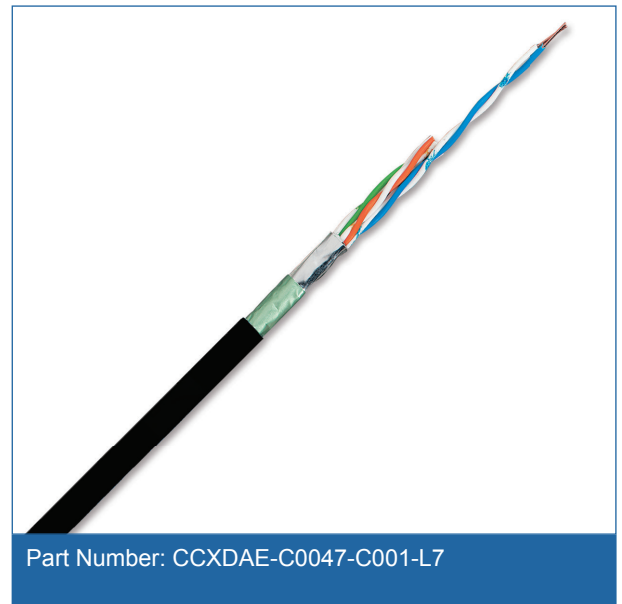
The improved operating temperature of up to -60 °C enables direct laying in the ground in the most adverse conditions.

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 PE outdoor 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
- PE jacket, halogen-free
- Common core foil shielded



Cross Section of Order Number: CCXDAE-C0047-C001-L7

PE outer jacket
Foil shielding
Foil shielding
Twisted pair
4 pairs
Drain wire
PE foam-skin insulation
Copper conductor AWG 24

Specifications

General Specifications	
Environment	Outdoor
Cable type	F/UTP
Category	5/ 5 _e
Bandwidth	300 MHz
Halogen-free	Yes

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Temperature Range

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

Cable Design

No. of pairs	4
Outer jacket material	Polyethylene (PE)
Outer jacket colour	Black

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	0.72 MJ/m
Maximum Tensile Strength	82 N
Nominal Outer Diameter	6.2 mm

Electrical characteristics (at 20°C)

Conductor resistance unbalance	1 %
Insulation Resistance	> 5000 MΩ*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
Coupling attenuation	> 55 dB
Max. loop resistance	185 Ω/km
Voltage rating	less than 75 V d.c max and less than 50 V a.c max

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	-	-

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Electrical characteristics (at 20°C)

Typical NEXT Values [dB/100 m]*	77.0	62.0	59.0	57.0	54.0	50.0	46.0	38.5	35.0
ACR-N according to Standard [dB/100 m]*	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 2011/65/EU
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Ordering Information

Part Number	CCXDAE-C0047-C001-L7
Product Description	FutureCom™ F/UTP 300/24 PE, 1000 m
EAN Code	4042673202820
Weight	36 kg/km
Length	1,000 m

Shipping Information

Maximum delivery length	1,000 m
Packing type	Drum



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