

FutureCom™ F/UTP 300/24 PE, black

Category 5e, 500 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.

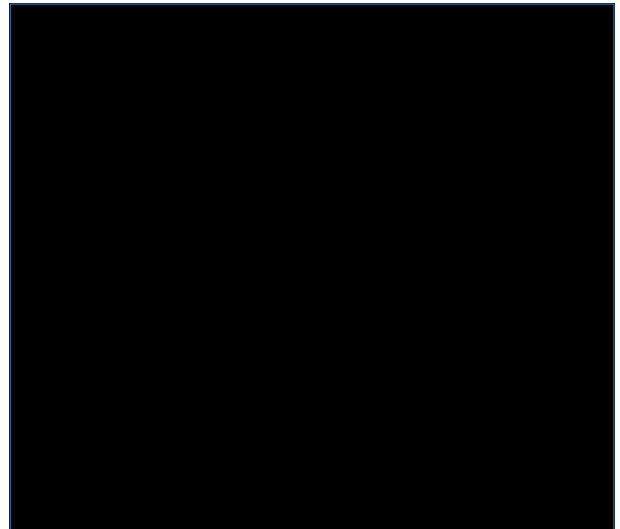
The improved operating temperature of up to -60 °C enables direct laying in the ground in the most adverse conditions.

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



Part Number: CCXDAE-C0047-C001-L6

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

Halogen-free jacket,
flame-retardant
Foil
shielding
Foil
shielding
Twisted
pair
4 shielded
pairs
Drain
wire
PE
foam-skin insulation
Copper conductor
AWG 23

Specifications

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

FutureCom™ F/UTP 300/24 PE, black

Category 5e, 500 m

CORNING

Temperature Range

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

Cable design

No. of pairs	4
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	93 N
Nominal outer diameter	6.2 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
Coupling attenuation	> 55 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]*	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

FutureCom™ F/UTP 300/24 PE, black

Category 5e, 500 m

CORNING

Electrical characteristics (at 20°C)

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
------	---

Ordering Information

Part Number	CCXDAE-C0047-C001-L6
Product Description	FutureCom™ F/UTP 300/24 PE, 500 m
EAN Code	4042673182856
Weight	36 kg/km
Length	500 m

Shipping Information

Maximum delivery length	500 m
Packing type	Drum



Corning Optical Communications GmbH & Co. KG · Leipziger Strasse 121 · 10117 Berlin, GERMANY
00 800 2676 4641 · FAX: +49 30 5303 2335 · www.corning.com/opcomm/emea

A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/emea/trademarks. Corning Optical Communications is ISO 9001 and ISO 14001 certified. © 2015 Corning Optical Communications. All rights reserved.