

# FutureCom™ F/UTP 300/24, Outdoor, Category 5e, PE, Fca 4P, Black

CORNING

**Part Number:**  
**CCXDAE-C0047-C001-L6**

FutureCom™ F/UTP 300/24, PE Outdoor Cable: twisted pair covered by an overall screen in PE jacket, spec. up to 200MHz, AWG 24, PE acc. to IEC 61156-5 EN 50288-2-1, Cat.5e acc. ISO/IEC11801, Fca

## Features and Benefits

F/UTP 300/24 copper cable specified up to 200 MHz

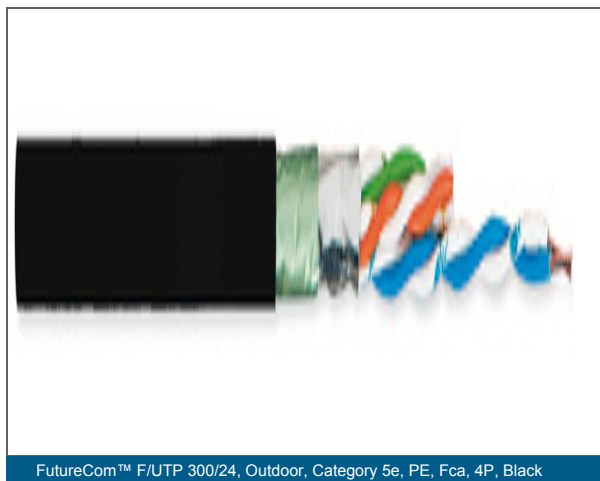
Fulfills all requirements of category 5e according to EN 50288-2-1 and IEC 61156-5

Ensures high system margins according ISO/IEC 11801 Ed.2.2 (2011) and EN 50173-1 series (2011)

Satisfies Class B + interference radiation as well as immunity standards (EN 55022 and EN 55024)

Supports Power over Ethernet (PoE / PoE+) according IEEE 802.3at

Each pair is individually foil shielded covered by an overall screen in PE jacket, Fca



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## Specifications

### Environmental Conditions

Temperature Range, Installation	0 °C to 50 °C
Temperature Range, Operation	-40 °C to 60 °C

### General Specifications

Environment	Outdoor
Category	5e
Cable Type	F/UTP
Bandwidth	300 MHz
Halogen-free	Yes
Radial watertight	Yes
Construction	Simplex, 4P
UV resistant	Yes
Reaction to fire	Fca

### Cable Design

Conductor	Copper Wire, AWG 24
Conductor Insulation	Solid PE
Twisting	2 cores to a pair
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black

### Mechanical Specifications

Fire Load	390 MJ/m
Nominal Outer Diameter	6.2 mm
Min. Bend Radius Installation	8x Cable-Ø (over flat side)

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## Mechanical Specifications

Maximum Tensile Strength	93 N
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## Electrical Characteristics

Conductor resistance unbalance	2 %
Delay skew	45 ns/100 m
Max. loop resistance	190 MΩ*km
Propagation delay	545 ns/100 m
Voltage rating	Less than 75 V d.c max and less than 50 V a.c max
Insulation Resistance	5000 MΩ*km
Surface transfer impedance	100 mΩ
Propagation Velocity at >10 MHz (NVP*c)	69 %
Coupling Attenuation	55 dB

## Ordering Information

Product Number	CCXDAE-C0047-C001-L6
Length	500 m
Weight	36 kg
Weight	36 kg/km
Packing Type	Drum

## Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	IEC 61156-5; EN 50288-2-1, ISO/IEC 11801 Ed. 2.2; EN 50173-1, TIA/EIA 568-C.2; IEC 60304
Design and Test Criteria	IEEE 802.3 an 1000 Base-T Compliant with PoE / PoE++ IEEE 802.3af, IEEE 802.3at

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Electrical Characteristics							
Frequency [MHz]	4	10	20	63	100	155	200
Attenuation according to Standard [db/100m]	4.1	6.5	9.3	17.0	22.0		
Typical attenuation [db/100m]	3.8	6.0	8.5	15.2	19.5	25.0	28.0
NEXT according to Standard [db/100m]	56.3	50.3	45.8	38.4	35.3		
Typical NEXT Values [db/100m]	63.0	57.0	52.0	45.0	42.0	39.0	37.0
ACR-N according to Standard [db/100m]	56.3	50.3	45.8	38.4	35.3		
Typical ACR-N Values [db/100m]	59.2	51.0	43.5	29.0	22.5	14.0	9.0



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