

FutureCom™ F/UTP 300/24, Category 5e, LSZH™, Eca 4P, Blue

CORNING

Part Number:
CCXDEE-C0047-C001-L7

FutureCom™ F/UTP 300/24, LSZH Cable: twisted pair, surrounded by an overall metallic foil shield, spec. up to 200MHz, AWG 24, LSZH Jacket, Cat.5e acc. ISO/IEC11801, Eca

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

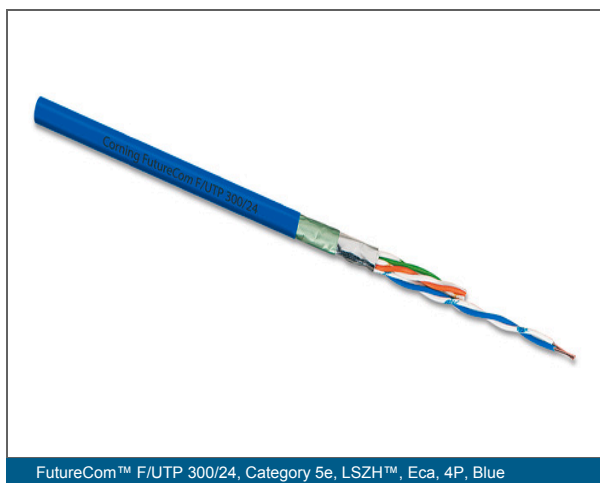
Ensures high system margins according ISO/IEC 11801 Ed.2.2 (2011) and EN 50173-1 series (2011)

Twisted pair, surrounded by an overall metallic foil shield

LSZH Jacket, CPR Eca

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



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Specifications

Environmental Conditions

Temperature Range, Installation	0 °C to 50 °C
Temperature Range, Operation	-20 °C to 60 °C

General Specifications

Environment	Indoor
Category	5e
Cable Type	F/UTP
Bandwidth	300 MHz
Halogen-free	Yes
Construction	Simplex, 4P
Reaction to fire	Eca

Cable Design

Conductor	Copper Wire, AWG 24
Conductor Insulation	Solid PE
Twisting	2 cores to a pair
Outer Jacket Material	LSZH™
Outer Jacket Color	Blue

Mechanical Specifications

Fire Load	460 MJ/m
Nominal Outer Diameter	6.1 mm
Min. Bend Radius Installation	8x Cable-Ø (over flat side)
Maximum Tensile Strength	80 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	10 mΩ
Propagation Velocity at >10 MHz (NVP*c)	69 %
Coupling Attenuation	55 dB

Ordering Information

Product Number	CCXDEE-C0047-C001-L7
Length	1000 m
Weight	39 kg
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, ANSI/TIA -568-C-2; IEC60304
Design and Test Criteria	IEEE 802.3 an 1000 Base-TCompliant with PoE / PoE++ IEEE 802.3af, IEEE 802.3at
Flame propagation test	Flame retardant according to IEC 60332-1-2 (single cable) and IEC 60332-3-24 (bunch of cables)
Smoke density	Low Smoke to IEC 61034
Halogen content test	Zero Halogen to IEC 60754-1
Level of corrosion	Non-corrosive according to IEC 60754-2

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Electrical Characteristics

Frequency [MHz]	4	10	20	63	100	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	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	37.0
ACR-N according to Standard [db/100m]	52.2	43.8	36.5	21.4	13.3	
Typical ACR-N Values [db/100m]	59.2	51.0	43.5	29.8	22.5	9.0



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