

FutureCom™ U/FTP 250/23, Category 6, LSZH™/FRNC, Cca 4P, Blue

CORNING

Part Number:
CCXERA-BC047-C001-L7

FutureCom™ U/FTP 250/23, LSZH Cable: twisted pair, foil shielded pair, surrounded by LSOH Jacket, spec. up to 250MHz, AWG 23, LSZH Jacket, Cat.6 acc. ISO/IEC11801, Cca-s1,d1,a1

Features and Benefits

U/FTP 250/23 copper cable specified up to 250 MHz

Fulfills all requirements of category 6 according to EN 50288-5-1 and IEC 61156-5

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

Twisted pair, foil shielded pair, surrounded by a LSZH Jacket, CPR Cca-s1,d1,a1

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

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



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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	6
Cable type	U/FTP
Bandwidth	250 MHz
Halogen-free	Yes
Construction	Simplex, 4P
Reaction to fire	Cca, s1, d1, a1

Cable Design

Conductor	Copper Wire, AWG 23
Conductor insulation	Halogen-free foam-skin material
Twisting	2 cores to a pair
Pair screen	Al-laminated foil around each pair
Outer jacket material	LSZH™/FRNC
Outer jacket colour	Blue

Mechanical Characteristics

Fire load	498 MJ/m
Nominal outer diameter	6.4 mm
Min. bend radius installation	8x Cable-Ø (over flat side)
Maximum tensile strength	100 N

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Electrical Characteristics

Conductor resistance unbalance	1 %
Delay skew	8 ns/100 m
Max. loop resistance	170 MΩ*km
Propagation delay	430 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)	78 %
Coupling attenuation	60 dB

Ordering Information

Product Number	CCXERA-BC047-C001-L7
Length	1000 m
Weight	42.74 kg
Packing type	Drum

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	IEC 61156-5; EN 50288-5-1, ISO/IEC 11801 Ed. 2.2; EN 50173-1, ANSI/TIA -568-C-2; IEC60304
Design And Test Criteria	Compliant with PoE / PoE++ IEEE 802.3af, IEEE 802.3at and IEEE 802.3btIEEE 802.3 an 1000 Base-T
Flame propagation test	Flame retardant according to IEC 60332-1-2 (single cable)
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	250
Attenuation according to Standard [db/100m]	3.8	6.0			19.9	33.0
Typical attenuation [db/100m]	3.8	6.0	8.5	15.5	19.9	33.0
NEXT according to Standard [db/100m]		59.3			44.3	38.3
Typical NEXT Values [db/100m]	65.3	59.3	54.8	47.4	44.3	38.3
ACR-N according to Standard		53.3			24.4	5.3
Typical ACR-N Values [db/100m]	61.4	53.3	46.3	31.9	24.4	5.3



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