

FutureCom™ F/FTP 450/23, Category 6, LSZH™/FRNC, Dca 4P, Blue

CORNING

Part Number:
CCXDDA-D0047-C001-L7

FutureCom™ F/FTP 450/23, LSZH Cable: twisted pair,
Each pair is individually foil shielded covered by an
overall screen in LSZH jacket, spec. up to 450MHz,
AWG 23, LSZH acc. to IEC60332-3 Cat.6 acc. ISO/
IEC11801, Dca-s1,d1,a1

Features and Benefits

F/FTP 450/24 copper cable specified up to 450 MHz

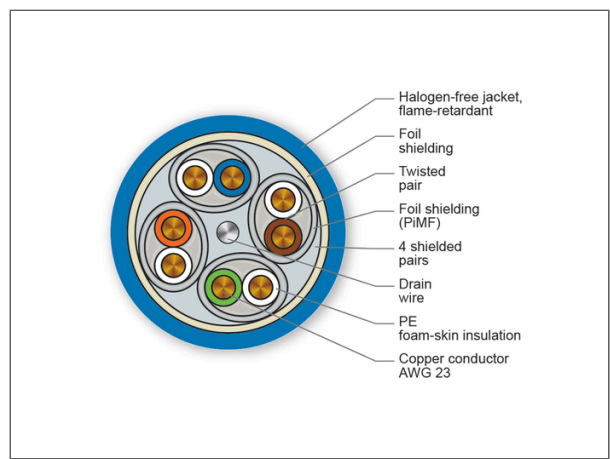
Fulfills all requirements of category 6 according to EN 50288-6-1 and IEC 61156-5

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

Each pair is individually foil shielded covered by an overall screen in LSZH jacket, CPR Dca-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 75 °C

General Specifications

Environment	Indoor
Category	6
Cable type	F/FTP
Bandwidth	450 MHz
Halogen-free	Yes
Construction	Simplex, 4P
Reaction to fire	Dca, s1, d1, a1

Cable Design

Conductor	Copper Wire, AWG 23
Conductor insulation	Halogen-free foam-skin material
Twisting	2 cores to a pair
Outer jacket material	LSZH™/FRNC
Outer jacket colour	Blue

Mechanical Characteristics

Fire load	511 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	2 %
Delay skew	40 ns/100 m
Max. loop resistance	190 MΩ*km
Propagation delay	520 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	70 dB

Ordering Information

Length	1000 m
Weight	43.42 kg
Weight	48 kg/km
Packing type	Drum

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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

Electrical Characteristics

Frequency [MHz]	1	10	16	20	31	63	100	250	450
Attenuation according to Standard									
Typical attenuation [db/100m]	1.8	5.3	6.8	7.6	9.6	13.6	17.3	27.7	38.0

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Electrical Characteristics

NEXT according to Standard									
Typical NEXT Values [db/100m]	100.0	100.0	100.0	100.0	100.0	97.0	95.0	90.0	85.0
ACR-N according to Standard									
Typical ACR-N Values [db/100m]	98.2	94.7	93.2	92.4	82.4	82.4	77.7	62.3	47.0



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