

FutureCom™ S/FTP 800/23s, Category 7, LSZH™/FRNC, Dca 4P, Blue

CORNING

Part Number:
CCXEDR-F0047-C001-L7

FutureCom™ S/FTP 800/23s, LSOH-1 Cable: twisted pair, foil shielded pair (PIMF) and braid shield, spec. up to 1000MHz, AWG 23s, LSZH acc. to IEC60332-1, Cat.7 acc. ISO/IEC11801, FRNC, Dca -s2, d1, a1

Features and Benefits

S/FTP 800/23s copper cable specified up to 1000 MHz

Fulfills all requirements of category 7 according to standards EN 50288-4-1 and IEC 61156-5

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

Suitable for 10 Gigabit Ethernet according to IEEE 802.3an

Each twisted pair is individually shielded with a Al-laminated foil around each pair (PIMF)

Overall shielding with tinned copper wire braiding

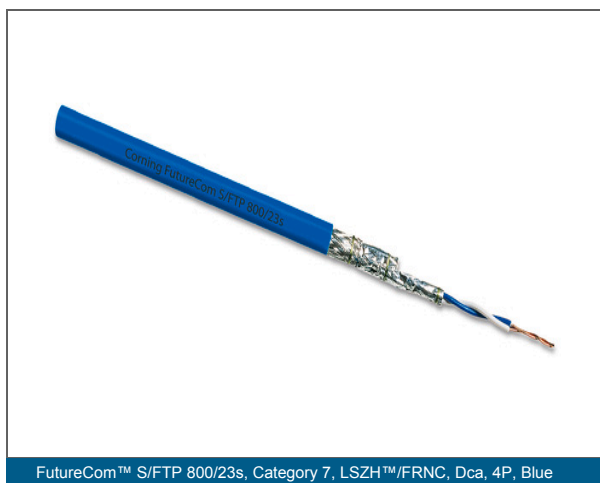
Flame retardant according to IEC 60332-1, EN 13501-6 and EN 50575 as well as non-corrosive according to IEC 60754-2 (NC)

Low smoke according to IEC 61034 and EN 50268; halogen-free (ZH/OH), no development of toxic gases in case of fire

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	7
Cable Type	S/FTP
Bandwidth	1000 MHz
Halogen-free	Yes
Construction	Simplex, 4P
Reaction to fire	Dca - s2, d1, a1

Cable Design

Conductor	Copper Wire, AWG 23/1
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 Color	Blue

Mechanical Specifications

Fire Load	620 MJ/m
Nominal Outer Diameter	7.3 mm
Min. Bend Radius Installation	8x Cable-Ø (over flat side)
Maximum Tensile Strength	154 N

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Electrical Characteristics

Conductor resistance unbalance	1 %
Delay skew	9 ns/100 m
Max. loop resistance	154 MΩ*km
Propagation delay	425 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)	79 %
Coupling Attenuation	80 dB

Ordering Information

Product Number	CCXEDR-F0047-C001-L7
Length	1000 m
Weight	52 kg
Weight	52 kg/km
Packing Type	Drum

Standards

Flame propagation test	Flame retardant according to IEC 60332-1-2 (single cable)
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	IEC 61156-5; EN 50288-4-1, 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
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]	1	4	10	100	300	600	800	1000
Attenuation according to Standard [db/100m]	2.0		5.7	18.5	33.3			
Typical attenuation [db/100m]	1.8	3.4	5.0	16.9	30.7	43.0	51.0	58.0
NEXT according to Standard [db/100m]	80.0		80.0	72.4	65.3			
Typical NEXT Values [db/100m]	102.0	102.0	102.0	102.0	95.0	92.0	90.0	80.0
ACR-N according to Standard [db/100m]	78.0		74.3	53.9	32.0			
Typical ACR-N Values [db/100m]	100.2	98.6	87.0	85.1	64.3	49.0	39.0	22.0



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