

FutureCom™ S/FTP 1000/23s, blue Category 7A, 1000 m

CORNING

Part Number:

CCXEDR-I0047-C001-L7

The FutureCom S/FTP 1000/23s is a product with additional, continuous quality monitoring under the Premium Verification Program (PVP) of the independent GHMT AG.

Features and Benefits

S/FTP 1000/23s copper cable specified up to 1200 MHz

Fulfills all requirements of category 7A according to standards EN 50288-9 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) and a Copper braid, tinned

Overall shielding with tinned copper wire braiding

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)

Flame retardant according to IEC 60332-1 and IEC 60332-3, EN 13501-6 and EN 50575 as well as non-corrosive according to IEC 60754-2 (NC)

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

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Specifications

General Specifications

Environment	Indoor
Category	7A
Bandwidth	1200 MHz
Halogen-free	Yes
Construction	Simplex, 4P
Product Category	Core Product / Fastship
Reaction to fire	Dca, s2, d2, a1
Cable Type	S/FTP

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
Overall screen	Copper braid, tinned
Outer Jacket Material	LSZH™/FRNC
Outer Jacket Color	Blue

Mechanical Specifications

Fire Load	0.56 MJ/m
Nominal Outer Diameter	7.3 mm

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Mechanical Specifications

Min. Bend Radius Installation	8x Cable-Ø (over flat side)
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Maximum Tensile Strength	154 N
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Electrical Characteristics

Conductor resistance unbalance	1 %
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Delay skew	12 ns/100 m
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Max. loop resistance	135 Ω/km
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Propagation delay ≥10 MHz	4.39 ns/m
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Propagation Velocity at >10 MHz (NVP*c)	0.76
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Coupling Attenuation	85 dB
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Insulation Resistance	5000 MΩ*km
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Surface transfer impedance	10 mΩ
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Ordering Information

Weight	55 kg/km
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Packing Type	Drum
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Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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Approvals and Listings	Compliant with IEC 11801 and EN 50173 Compliant with EN 50173-1 and EN 50288 Compliant with ISO/IEC 1180 and IEC 60332 Compliant with IEC 60754, IEC 60754-2, IEC 61034 and IEC 61156
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Standards

Flame Test Method	Flame retardant according to IEC 60332-1-2 (single cable), IEC 60332-3-24 (bunch of cables) Reaction to fire according to EN 50575 and EN 13501-6 Non-corrosive according to IEC 60754-2
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Environmental Conditions

Temperature Range, Installation 0 °C (32 °F)

Temperature Range, Operation -20 °C - 60 °C (-4 °F - 140 °F)

Electrical Characteristics

Frequency [MHz]	1	4	10	100	300	600	800	1000	1200
Attenuation according to Standard [db/100m]	2.1	3.7	5.8	18.5	32.7	47.1	47.1	61.9	
Typical attenuation [db/100m]	1.7	3.3	5.0	16.7	29.5	42.0	50.3	56.0	62.0
NEXT according to Standard [db/100m]	78.0	78.0	78.0	72.4	65.2	60.7	60.7	57.4	
Typical NEXT Values [db/100m]	105.0	105.0	105.0	105.0	100.0	95.0	93.0	88.0	85.0
ACR-N according to Standard [db/100m]	75.9	74.3	72.2	53.9	32.6	13.6	13.6	-4.5	
Typical ACR-N Values [db/100m]	103.3	101.7	100.0	88.3	70.5	53.0	42.7	32.0	23.0



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