

# FutureCom™ S/FTP 1000/23, Category 7A, LSZH™/FRNC, Cca 4P, Blue

CORNING

## Part Number: CCXEDB-IC047-C001-L7

The FutureCom™ copper data cables with high-density braiding are especially interference-resistant and therefore particularly suitable for deployment in environments of increased electromagnetic interferences, such as data centers and manufacturing areas as well as recommended for high quality conscious customers.

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

## Features and Benefits

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

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Fulfills all requirements of category 7A according to EN 50288-9-1 and IEC 61156-5

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

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Suitable for 10 Gigabit Ethernet according to IEEE 802.3an

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Each twisted pair is shielded with aluminum foil (PIMF), low skew between the pairs

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Overall shielding with tinned copper wire braiding

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Flame retardant according to IEC 60332-3-24 and EN 50266-2-4 (FR), EN 13501-6, non-corrosive according to IEC 60754-2 (NC) and EN 50267

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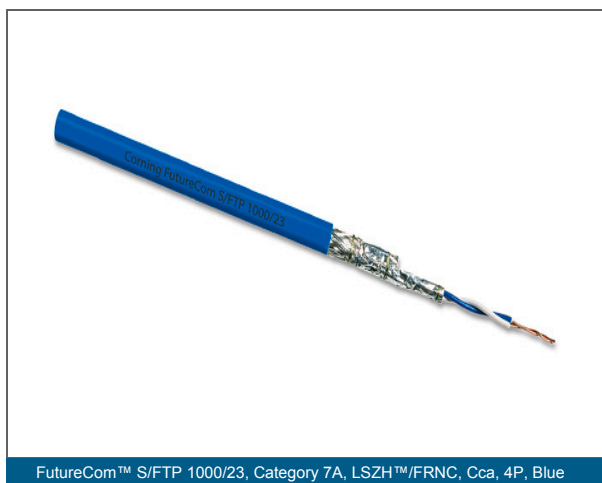
Low smoke according to IEC 61034 and EN 50268; halogen-free (ZH/OH), no development of toxic gases in case of fire

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

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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	7A
Cable type	S/FTP
Bandwidth	1200 MHz
Halogen-free	Yes
Construction	Simplex, 4P
Reaction to fire	Cca, s1a, 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	623 MJ/m
Nominal outer diameter	7.9 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	12 ns/100 m
Max. loop resistance	135 MΩ*km
Propagation delay	439 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)	76 %
Coupling attenuation	85 dB

## Ordering Information

Product Number	CCXEDB-IC047-C001-L7
Length	1000 m
Weight	65 kg
Weight	65.1 kg/km
Packing type	Drum

## Standards

Flame propagation test	Flame retardant according to IEC 60332-3-24 and EN 50266-2-4
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	IEC 61156-5; EN 50288-9-1, 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 and IEEE 802.3bt
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	1000	1200
Attenuation according to Standard [db/100m]	2.1	3.7	5.8	18.5	32.7	47.1	61.9	
Typical attenuation [db/100m]	1.7	3.3	5.0	16.7	29.5	42.0	56.0	62.0
NEXT according to Standard [db/100m]	78.0	78.0	78.0	76.0	69.0	64.0	61.0	
Typical NEXT Values [db/100m]	105.0	105.0	105.0	105.0	100.0	95.0	88.0	85.0
ACR-N according to Standard [db/100m]	75.9	74.5	72.6	58.5	37.5	17.7	-4.5	
Typical ACR-N Values [db/100m]	103.3	101.7	100.0	88.3	70.5	53.0	32.0	23.0



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