

# 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

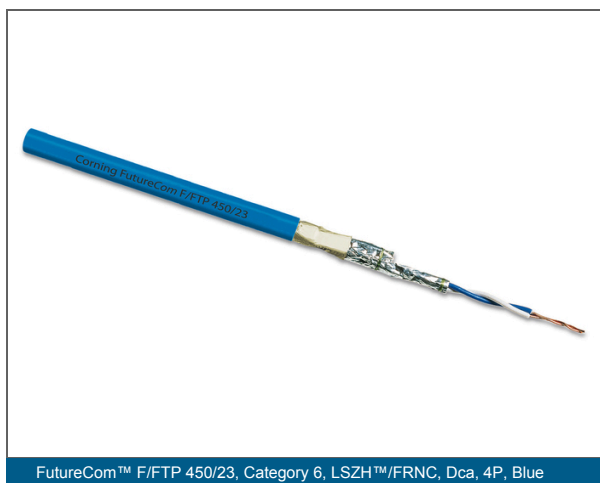
Fulfills all requirements of category 6 according to EN 50288-6-1 and IEC 61156-5

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



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

CORNING

## 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

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

CORNING

## 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

Product Number	CCXDDA-D0047-C001-L7
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
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 802.3bt/IEEE 802.3 an 1000 Base-T
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

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

CORNING

Electrical Characteristics									
Frequency [MHz]	1	10	16	20	31	63	100	250	450
Attenuation according to Standard [db/100m]	3.83	6.0		8.53		15.48	19.92	33.02	46.22
Typical attenuation [db/100m]	1.8	5.3	6.8	7.6	9.6	13.6	17.3	27.7	38.0
NEXT according to Standard [db/100m]	66.27	60.3		55.78		48.36	45.3	39.33	35.5
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 [db/100m]	55.96	48.0		41.98		32.08	28.0	20.04	14.94
Typical ACR-N Values [db/100m]	98.2	94.7	93.2	92.4	82.4	82.4	77.7	62.3	47.0



Corning Optical Communications GmbH & Co. KG • Lelpziger Strasse 121 • 10117 Berlin, Germany  
+00 800 2675 4641 • FAX: +49 30 5303 2335 • [www.corning.com/opcomm/emea](http://www.corning.com/opcomm/emea)

A complete listing of the trademarks of Corning Optical Communications is available at [www.corning.com/opcomm/emea/trademarks](http://www.corning.com/opcomm/emea/trademarks). Corning Optical Communications is ISO 9001 and ISO 14001 certified. © 2022 Corning Optical Communications. All rights reserved.