

FutureCom™ U/FTP 250/23, black

Category 6, 1000 m

CORNING

The FutureCom™ U/FTP 250 AWG23 cable is designed for applications up to 250 MHz and its transmission characteristics exceed Category 6 specifications according to EN 50288-5-1, IEC 61156-5 and TIA/EIA 568. High system margins for the complete link according to ISO/IEC 11801 Ed.2.2 (2011) and EN 50173 (Series) will be achieved by using corresponding hardware together with this copper data cable. Due to the very low delay skew between the pairs these FutureCom cables are especially suitable for Gigabit Ethernet. The cable has a streamlined construction and low weight. Each pair is individually foil shielded, which guarantees outstanding shielding characteristics. The cable satisfies Class B interference radiation standards according to EN 55022, as well as immunity according to EN 55024, which enables the realisation of CE-compatible networks.

Features

- 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

Standards

Approvals and Listings Reaction to fire according to EN 13501-6

Specifications

General Specifications	
Environment	Indoor
Cable type	U/FTP
Category	6
Bandwidth	250 MHz
Reaction to fire	Dca,s2,d1,a1
Halogen-free	Yes

Temperature Range	
Installation and assembly	0 °C to 50 °C
Operation	-20 °C to 60 °C



FutureCom™ U/FTP 250/23, black

Category 6, 1000 m

CORNING

Cable Design

No. of pairs	4
Outer jacket material	LSZH™/FRNC
Outer jacket colour	Black

Mechanical Characteristics

Conductor Insulation	Halogen-free foam-skin material
Area/Range of Application	Dry and damp rooms
Min. Bend Radius Installation	≥ 60 mm
Min. Bend Radius Operation	≥ 22 mm
Maximum Tensile Strength	100 N
Nominal Outer Diameter	6.9 mm
Fire Load	0.49 MJ/m
Copper conductor	AWG 23

Electrical characteristics (at 20°C)

Conductor resistance unbalance	1 %
Insulation Resistance	> 5000 MΩ*km
Surface transfer impedance	< 100 mΩ/m at 10 MHz
Delay skew	4 ns/100 m
Max. loop resistance	170 Ω/km
Voltage rating	less than 75 V d.c max and less than 50 V a.c max
Coupling attenuation	> 60 dB

Electrical characteristics (at 20°C)

Frequency [MHz]*	1	4	10	100	250
Attenuation according to Standard [dB/100 m]*	2.1	3.8	6.0	19.9	33.0
Typical attenuation [dB/100 m]*	2.0	3.6	5.5	17.9	28.9
NEXT according to Standard [dB/100 m]*	66.0	-	59.3	44.3	38.3
Typical NEXT Values [dB/100 m]*	100	100	100	94.0	89.0
ACR-N according to Standard [dB/100 m]*	63.9	-	53.3	24.4	5.3
Typical ACR-N Values [dB/100 m]*	98	96.4	94.5	76.1	60.1

FutureCom™ U/FTP 250/23, black

Category 6, 1000 m

CORNING

Chemical Characteristics

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

Ordering Information

Part Number	CCXERA-B0047-C001-L7
Product Description	FutureCom™ U/FTP 250/23, black, Dca,s2,d1,a1, 1000 m
EAN Code	4042673607472

Shipping Information

Maximum delivery length	1,000 m
Packing type	Drum



Corning Optical Communications GmbH & Co. KG · Leipziger Strasse 121 · 10117 Berlin, GERMANY

00 800 2676 4641 · FAX: +49 30 5303 2335 · www.corning.com/opcomm/emea

A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/emea/trademarks. Corning Optical Communications is ISO 9001 and ISO 14001 certified.

© 2017 Corning Optical Communications. All rights reserved.