

FutureCom™ S/FTP 800/23, Category 7 4P, LSZH™-3, green, Cca -s1a, d1, a1, (VOL10SFL41000)

CORNING

Part Number: MCXEDB-FC047-V004-L7

FutureCom™ S/FTP 800/23, 4P, LSOH-3
Cable: twisted pair, foilshielded pair(PIMF) and braid shield, spec. up to 1000MHz, AWG 23, 4 pairs, LSOH flame-retardant acc. to IEC60332-3-24, Green, Cat.7 acc. ISO/IEC11801, FRNC, Cca -s1a, d1, a1

Features and Benefits

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

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

Ensures high system margins according ISO/IEC 11801 Ed.2.2 (2011) and EN 50173-1

Suitable for 10 Gigabit Ethernet according to IEEE 802.3 an

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 and IEC 60332-3-24, EN 13501-6 and EN 50575 as well as non-corrosive according to IEC 60754-2 (NC)

Low smoke according to IEC 61034-2 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 802.3b

Specifications

General Specifications	
Construction	Simplex
Reaction to fire	Cca -s1a, d1, a1
Environment	Indoor
Category	7
Cable type	S/FTP
Bandwidth	1000 MHz
Halogen-free	Yes

FutureCom™ S/FTP 800/23, Category 7 4P, LSZH™-3, green, Cca -s1a, d1, a1, (VOL10SFL41000)

CORNING

Mechanical Characteristics

Fire load	561 MJ/m
Nominal outer diameter	7.8 mm
Maximum tensile strength	154 N
Min. bend radius installation	8x Cable-Ø (over flat side)

Ordering Information

Length	1000 m
Weight	64 kg/km
Packing type	Drum

Environmental Conditions

Temperature range, installation	0 °C to 50 °C (32 °F to 122 °F)
Temperature range, operation	-20 °C to 60 °C (-4 °F to 140 °F)

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™-3
Outer jacket colour	Green

Electrical Characteristics

Conductor resistance unbalance	1 %
Delay skew	9 ns/100 m
Max. loop resistance	154 Ω/km

FutureCom™ S/FTP 800/23, Category 7 4P, LSZH™-3, green, Cca -s1a, d1, a1, (VOL10SFL41000)

CORNING

Electrical Characteristics

Propagation delay ≥ 10 MHz	425 ns/m
Voltage rating	Less than 75 V d.c max and less than 50 V a.c max
Insulation resistance	5000 M Ω *km
Surface transfer impedance	10 m Ω
Propagation velocity at >10 MHz (NVP*c)	79 %
Coupling attenuation	85 dB

Standards

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

Electrical Characteristics

Frequency [MHz]	1	4	10	100	300	600	800	1000
Attenuation according to Standard [db/100m]	2	-	5.7	18.5	33.3	48.9	-	-
Typical attenuation [db/100m]	1.8	3.4	5	16.9	30.7	43	51	58
NEXT according to Standard [db/100m]	80	-	80	72.4	65.3	60.8	-	-
Typical NEXT Values [db/100m]	102	102	102	102	95	92	90	80
ACR-N according to Standard [db/100m]	78	-	74.3	53.9	32	11.9	-	-
Typical ACR-N Values [db/100m]	100.2	98.6	87	85.1	64.3	49	39	22



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

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. © 2020 Corning Optical Communications. All rights reserved.