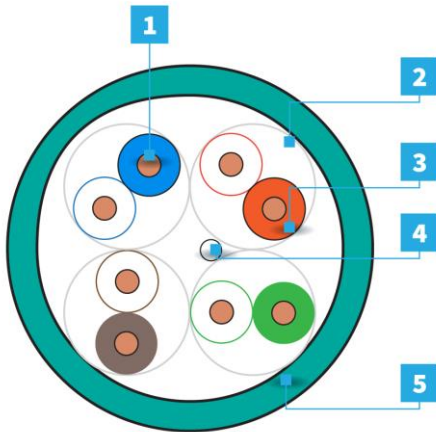


Type:	Installation cable	13.07.2017
	U/FTP Cat.6 _A 4PR LSZH 500 MHz	REV: 0
Ref:	XR100.126 XR100.127	D

Installation cable Cat.6_A U/FTP 4PR LSZH CPR Class D_{CA} 500 MHz



CONSTRUCTION:

- 1 – Conductor**
Material: solid bare annealed copper.
Nominal diameter: 23 AWG.
- 2 – Insulation**
Material: polyolefin.
Nominal diameter: 1.3 mm.
- 3 – stranded wires**
Pair: 2, twisted insulated conductors.
Number of pairs: 4, all twisted together.
Individual screen: aluminum / polyester tape
- 4 – Drain wire:** solid tinned annealed copper.
- 5 – Outer sheath**
Material: LSZH.
Color: turquoise (RAL 6027)

STANDARDS

ISO/IEC 11801
EN 50173
IEC 61156-5
EN 50288-10-1
IEC 60332-1-2
IEC 60754-1/2
IEC 61034-1/2

SUPPORTED APPLICATIONS

10BASE-T (IEEE 802.3)
100BASE-T (IEEE 802.3)
1000BASE-T (Gigabit Ethernet)
10GBASE-T (10Gigabit Ethernet)
100 Mbps TP-PMD (ANSI X3T9.5)
4/16 Mbps TOKEN RING (IEEE 802.5)
PoE/PoE+

ORDERING

XR100.126 – Reel 500m
XR100.127 – Reel 1000m

MECHANICAL CHARACTERISTICS

Bending radius in operation	≥28	mm
Min. bending radius during installation	≥56	mm
Max. pulling tension	≤95	N
Nominal weight	47,8	kg/km
Nom. outer diameter	6.8	mm
Nom. wire diameter	23	AWG

ELECTRICAL CHARACTERISTICS @ 20°C

DC Resistance:	150	Ω/km
Nom. Mutual Capacity @1kHz	42	pF/m
NVP:	79	%
Mean input Impedance:	100 ± 5 @ 100MHz	Ω
Delay Skew:	5	ns/100m
Segregation class	c	-
Coupling Attenuation (CA):	>55	dB

TEMPERATURE CHARACTERISTICS

Storage Temperature	-20 to +60	°C
Operating Temperature	-20 to +60	°C
During installation	0 to +50	°C

ENVIRONMENTAL CHARACTERISTICS

Jacket material	LSZH
Flammability	Acc. to IEC 60332-1-2, IEC 60754-1/2; IEC 61034-1/2
Calorific value	EN50575; D_{CA}-s2,d1,a1 ; DoP 0009D 0.55 MJ/m

Important notice

Buyer and/or user of this product has to make sure before using this product that it is suitable for the intended use. All questions of liability relating to this product are subject – in accordance with the prevailing – to the Term of Sale of the selling Fibrain subsidiary.

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TRANSMISSION CHARACTERISTICS

Frequency	Attenuation	NEXT	PS-NEXT	ELFEXT ACR-F	PS-ELFEXT PSACR-F	ACR	PS-ACR	RL
MHz	dB/100m (max.)	dB (min.)	dB (min.)	dB/100m (min.)	dB/100m (min.)	dB/100m (min.)	dB/100m (min.)	dB/100m (min.)
1*	2.1	93.0	90.0	96.0	93.0	91.0	88.0	26.0
4	3.8	93.0	90.0	96.0	93.0	89.0	86.0	28.0
10	5.9	93.0	90.0	96.0	93.0	87.0	84.0	30.0
100	19.0	93.0	90.0	74.0	71.0	73.0	70.0	30.0
250	30.0	83.0	80.0	56.0	53.0	53.0	50.0	27.0
500	43.0	75.0	72.0	33.0	30.0	32.0	29.0	21.0

* Typical values. For information only

CABLE MARKING

FIBRAINDATA CABLE CAT6A U/FTP 4PR 23 AWG 500MHZ NVP 79% LSZH CPR CLASS Dca ISO/IEC11801 EN50173 ANSI/TIA/568-C.2 JJJJ XR100.12P OFRRRRRR . XXXXX M

Where

YYYY: production year
P: 6 for 500m reel, 7 for 1000 reel
ZZZZ: batch number
Seq number: length

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