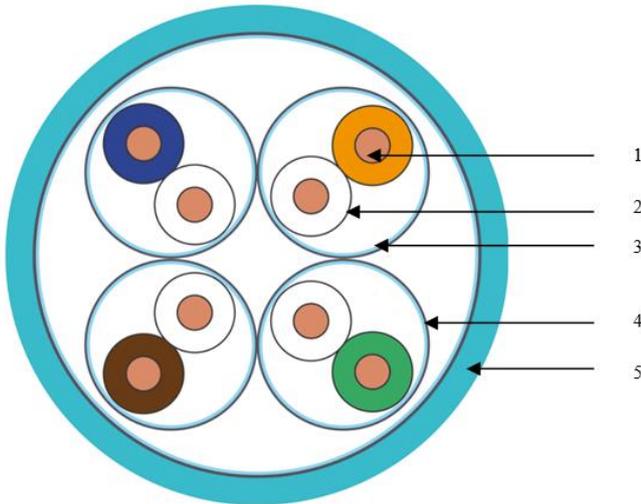


Installation cable Cat.6_A S/FTP 4PR LSFRZH CPR Class D_{CA} 500 MHz



CONSTRUCTION:

- 1 – Conductor**
Material: solid bare annealed copper.
Nominal diameter: 23 AWG.
- 2 – Insulation**
Material: Foam skin polyethylene.
Nominal diameter: 1.38 mm.
- stranded wires**
Pair: 2, twisted insulated conductors.
Number of pairs: 4, all twisted together.
- 3 – Individual screen:** aluminum / polyester tape.
- 4– Screen:** aluminum / polyester tape
- 5 – Outer sheath**
Material: LSFRZH.
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

100BASE-T
1000BASE-T
2,5GBase-T
5GBase-T
10GBASE-T
Power over Ethernet

Ordering

XR1481046321– Reel 500m

MECHANICAL CHARACTERISTICS

Min bending radius without a load	4 x D	mm
Min bending radius with a load	8 x D	mm
Max. tensile force	110	N
Weight	53,5	kg/km
Copper content	26	kg/km
Outer diameter	7.2	mm
Wire diameter	23	AWG

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ELECTRICAL CHARACTERISTICS @ 20°C

Loop resistance	165	Ω/km
Mutual capacitance	43	nF/km
Nominal velocity of propagation NVP	79	%
Max delay skew	12	ns/100m
Mean characteristic impedance @ 100MHz	100 ± 5	Ω
Max Transfer impedance @ 1 MHz	12	mΩ/m
@ 10 MHz	10	mΩ/m
@ 30 MHz	30	mΩ/m
Segregation classification acc. EN 50174-2:	D	-
Min coupling attenuation	80	dB

ENVIRONMENTAL CHARACTERISTICS

Temperature range during storage	-20 ÷ +60	°C
Temperature range during operation	-20 ÷ +60	°C
Temperature range during installation	0 ÷ +50	°C

FIRE REACTION

Fire load	580	MJ/km
Jacket material	LSFRZH acc: IEC 60332-1-2, IEC 60754-1/2; IEC 61034-1/2	
Euroclass acc. CPR (EN 50575)	Dca-s2,d1,a1; DoP 00121P	

NOMINAL TRANSMISSION CHARACTERISTICS

Frequency	Attenuation	NEXT	PS-NEXT	ACR	PS-ACR	ACR-F	PS-ACR-F	RL
MHz	dB/100m	dB	dB	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m
1,0	1,8	100	97	98	95	105	105	-
4,0	3,4	100	97	97	94	105	102	27
10,0	5,4	100	97	95	92	97	94	30
100,0	17,4	100	97	83	80	77	74	30
250,0	28,1	90	87	62	59	69	66	24
500,0	42,0	83	80	41	38	62	59	22

CABLE MARKING

FIBRAIN DATA CABLE CAT6A S/FTP 4PR 23 AWG 500MHZ NVP 79% LSFRZH CPR CLASS Dca ISO/IEC11801 EN50173 ANSI/TIA/568.2-D JJJJ YYYYYYYYYYYY OFRRRRRR . XXXXX M

Where

JJJJ: production year
OFRRRRRR: manufacturer order
XXXXX: length