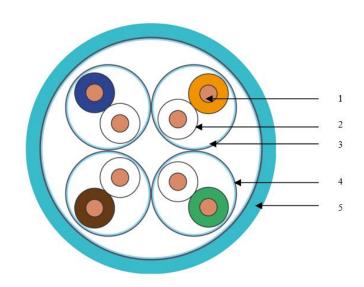


Type:	Installation cable	09.06.2020
	S/FTP Cat.6 <sub>A</sub> 4PR LSFRZH 650 MHz	REV: 0
Ref:	XR1431048130	Р

# Installation cable Cat.6A S/FTP 4PR LSFRZH CPR Class B2CA 650 MHz





#### **CONSTRUCTION:**

1 - Conductor

Material: solid bare annealed copper.

23 AWG. Nominal diameter:

2 - Insulation

Material: Foam skin polyethylene.

Nominal diameter:

1.38 mm.

stranded wires

Pair: 2, twisted insulated conductors.

Number of pairs: 3 - Individual screen:

4, all twisted together. aluminum / polyester tape.

aluminum / polyester tape

4- Screen:

5 - Outer sheath

**LSFRZH** 

Material:

Turquoise (RAL 6027) Color:

XR1431048130- Reel 500m

**Standards** SUPPORTED APPLICATIONS Ordering

ISO/IEC 11801 100BASE-T 1000BASE-T EN 50173 2,5GBase-T IEC 61156-5 EN 50288-10-1 5GBase-T IEC 60332-3-24 10GBASE-T

Power over Ethernet IEC 60754-1/2

IEC 61034-1/2

# **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	64,1	kg/km
Copper content	36	kg/km
Outer diameter	7.4	mm
Wire diameter	23	AWG

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## **ELECTRICAL CHARACTERISTICS @ 20°C**

Loop resistance	160	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	8	mΩ/m
@ 10 MHz	8	mΩ/m
@ 30 MHz	10	mΩ/m
Segregation classification acc. EN 50174-2:	D	-
Min coupling attenuation	85	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 640 MJ/km

Jacket material LSFRZH acc:

IEC 60332-3-24, IEC 60754-1/2, IEC 61034-1/2

Euroclass acc. CPR (EN 50575) B2ca s1a d1 a1; DoP 00124P

### 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	44,8	85	82	40	37	61	58	22
650,0	45,2	82	80	36	32	57	55	21

## **CABLE MARKING**

FIBRAINDATA CABLE CAT6A S/FTP 4PR 23 AWG 650MHZ NVP 79% LSFRZH CPR CLASS B2ca ISO/IEC11801 EN50173 ANSI/TIA/568.2-D JJJJ XR1431048130 OFRRRRR . XXXXX M

Where

JJJJ: production year OFRRRRR: manufacturer order

XXXXX: length

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