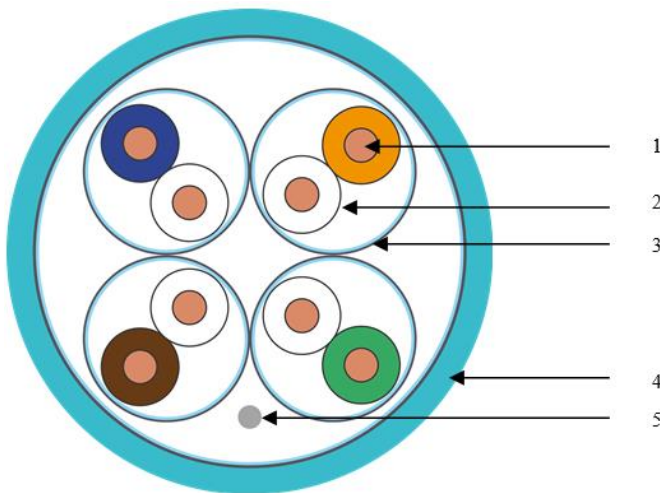


## Installation cable Cat.6 U/FTP 4PR LSZH CPR Class D<sub>CA</sub> 400 MHz



### CONSTRUCTION:

- 1 – Conductor**  
Material: solid bare annealed copper.  
Nominal diameter: 23 AWG.
- 2 – Insulation**  
Material: Foam skin polyethylene.  
Nominal diameter: 1.40 mm.  
**stranded wires**
- Pair: 2, twisted insulated conductors.  
Number of pairs: 4, all twisted together.
- 3 – Individual screen:** aluminum / polyester tape.
- 4 – Outer sheath**  
Material: LSZH.  
Color: Blue (RAL 5015)
- 5 – Drain wire** tinplated copper wire

### Standards

ISO/IEC 11801  
EN 50173  
IEC 61156-5  
EN 50288-6-1  
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

**XQ1221046320**– 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	100	N
Weight	47,5	kg/km
Copper content	22,5	kg/km
Outer diameter	6.9	mm
Wire diameter	23	AWG

### ELECTRICAL CHARACTERISTICS @ 20°C

Max loop resistance	176	Ω/km
Mutual capacitance	43	nF/km
Nominal velocity of propagation NVP	79	%
Max delay skew	15	ns/100m
Mean characteristic impedance @ 100 MHz	100 ± 5	Ω
Max Transfer impedance @ 1 MHz	50	mΩ/m

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@ 10 MHz	100	mΩ/m
@ 30 MHz	200	mΩ/m
Segregation classification acc. EN 50174-2:	C	-
Min coupling attenuation	55	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	570	MJ/km
Jacket material	LSZH acc: IEC 60332-1-2, IEC 60754-1/2; IEC 61034-1/2	
Euroclass acc. CPR (EN 50575)	<b>Dca-s2,d1,a1; DoP 0013P</b>	

### 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
16,0	6,8	100	97	93	90	93	90	30
20,0	7,7	100	97	92	89	91	88	30
31,2	9,6	100	97	90	87	87	84	30
62,5	13,7	100	97	86	83	81	78	30
100,0	17,4	100	97	83	80	77	74	30
125,0	19,5	95	92	75	72	75	72	26
155,5	21,9	94	91	72	69	73	70	26
175,0	23,3	93	90	70	67	72	69	25
200,0	25,0	92	89	67	64	71	68	25
250,0	28,1	90	87	62	59	69	66	24
300,0	30,9	89	86	58	55	67	64	24
400,0	41,0	82	79	40	37	61	58	21

### CABLE MARKING

**FIBRAIN DATA CABLE CAT6A U/FTP 4PR 23 AWG 400MHZ NVP 79% LSZH CPR CLASS Dca ISO/IEC11801 EN50173 ANSI/TIA/568-C.2 JJJJ XQ1221046320 OFRRRRRR . XXXXX M**

Where

**JJJJ:** production year  
**OFRRRRRR:** manufacturer order  
**XXXXX:** length

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