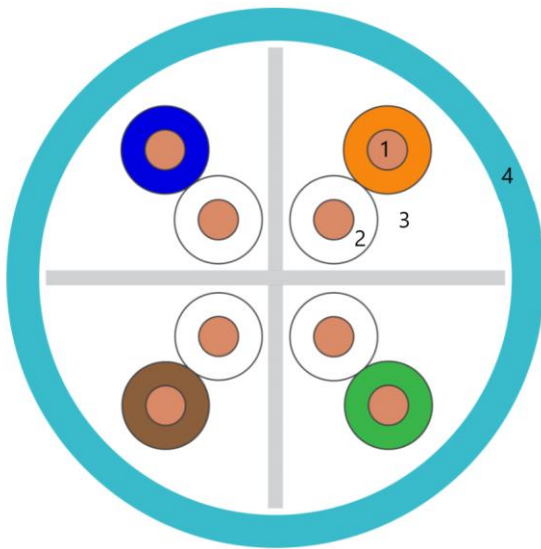


## Installation cable Cat.6 U/UTP 4PR LSFRZH CPR Class B2<sub>CA</sub> 400 MHz



### CONSTRUCTION

<b>1. Conductor</b>	
Material	solid bare copper wire
Wire gauge	AWG 23 (0,56 mm)
<b>2. Insulation</b>	
Material	Polyethylene, Ø 1.0 mm nom
<b>3. Twisting</b>	
Pair	2, twisted insulated conductors
Number of pairs	4, all twisted together
<b>4. Outer sheath</b>	
Material	LSFRZH
Color	Pastel blue (RAL 5024)

### STANDARDS

ISO/IEC 11801  
EN 50173  
IEC 61156-5  
EN 50288-6-1  
IEC 60332-3-24  
IEC 60754-1/2  
IEC 61034-1/2

### SUPPORTED APPLICATIONS

100BASE-T  
1000BASE-T  
Power over Ethernet (PoE/PoE+)

### ORDERING

XQ1021048130 – Reel 500m

### MECHANICAL CHARACTERISTICS

PARAMETER	VALUE	UNIT
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	46	kg/km
Copper content	20,5	kg/km
Outer diameter	6,1	mm
Wire diameter	23	AWG

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### ELECTRICAL CHARACTERISTICS @ 20°C

PARAMETER	VALUE	UNIT
DC loop resistance	≤ 154 Ω /km	Ω /km
Resistance unbalance	≤ 2%	%
Insulation resistance @500 V	≥ 5000 MΩ *km	MΩ *km
Capacitance @800 Hz	Nom. 48 nF/km	nF/km
Capacitance unbalance (pair to ground)	≤ 1500 pF/km	pF/km
Mean impedance 100 MHz	100 ± 5 Ω	Ω
Nominal velocity of propagation	Approx. 67 %	%
Nominal propagation delay	535	ns/100m
Nominal delay skew	20	ns/100m
Test voltage (DC, 1 min)	1000	1000 V
Segregation classification acc. EN 50174-2	B	
Min coupling attenuation	40	dB

### ENVIRONMENTAL CHARACTERISTICS

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

### FIRE REACTION

PARAMETER	VALUE	UNIT
Fire load	527	MJ/km
Jacket material	LSFRZH acc: IEC 60332-3-24, IEC 60754-1/2; IEC 61034-1/2	
CPR Euroclass	B2 <sub>CA</sub> -s1,d1,a1; DoP 0016P	

### NOMINAL TRANSMISSION CHARACTERISTICS

FREQ.	ATT	NEXT	PS-NEXT	ACR	PS-ACR	ELFEXT	PS-ELFEXT	RL
[MHz]	[dB/100m]	[dB]	[dB]	[dB/100m]	[dB/100m]	[dB/100m]	[dB/100m]	[dB]
1	1.9	78	75	76.1	73.1	82	80	29
4	3.8	69	66	65.2	62.2	70	68	23
10	6.0	63	60	57.0	54.0	62	60	25
16	7.6	60	57	52.3	49.3	58	56	25
20	8.5	59	56	50.0	47.0	56	54	25
31.2	10.7	56	53	45.0	42.0	52	50	23,6
62.5	15.1	51	48	36.0	33.0	46	44	21,5
100	19.1	48	45	28.9	25.9	42	40	20,1
125	21.3	47	44	25.2	22.2	40	38	19,5
155.5	23.8	45	42	21.3	18.3	38	36	18,8
175	25.3	44	41	19.1	16.1	37	35	18,4
200	27.0	44	41	16.5	13.5	36	34	18
250	32.0	42	39	10.0	7.0	34	32	17,3
300	36.1	41	38	4.8	1.8	32	30	-
400	41.7	39	36	-2.7	-5.7	30	28	-

### CABLE MARKING

**FIBRAINDATA CABLE CAT6 U/UTP 4PR 23 AWG 400MHZ NVP 67% LSFRZH CPR CLASS B2CA ISO/IEC11801 EN50173 ANSI/TIA/568.2-D JJJJ XQ1021046312 OFRRRRRR . XXXXX M**

Where

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

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