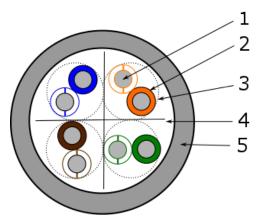


Type:	Installation cable	14.07.2017
	U/UTP Cat.6 4PR PVC 500 MHz	REV: 0
Ref:	XQ100.101	
	XQ100.102	G
	XQ100.103	

Installation cable Cat.6 U/UTP 4PR PVC CPR Class E_{CA} 500 MHz



CONSTRUCTION:

1 - Conductor

Material: solid bare annealed copper.

Nominal diameter: 23 AWG.

2 - Insulation

Material: polyolefin. Nominal diameter: 1.0 mm.

3 - stranded wires

Pair:

2, twisted insulated conductors.

4, all twisted together.

Number of pairs: 4 – Cross separator

5 - Outer sheath

Material: PVC.

ORDERING

Color: grey (RAL 7035)

XQ100.101 - Box 305m

XQ100.102 - Reel 500m

XQ100.103 - Reel 1000m

STANDARDS SUPPORTED APPLICATIONS

ISO/IEC 11801 10BASE-T (IEEE 802.3)
EN 50173 100BASE-T (IEEE 802.3)
TIA 568 C.2 1000BASE-T (Gigabit Ethernet)
IEC 61156-5 100BASE-VG-AnyLAN
EN 50288-3-1 100 Mbps TP-PMD (ANSI X3T9)

EN 50288-3-1 100 Mbps TP-PMD (ANSI X3T9.5) IEC 60332-1-2 4/16 Mbps TOKEN RING (IEEE 802.5)

55/155 Mbps ATM

MECHANICAL CHARACTERISTICS

Min. bending radius in operation	25	mm
Min. bending radius during installation	45	mm
Max. pulling tension	95	N
Nominal weight	36.3	kg/km
Nom. outer diameter	5.4	mm
Nom wire diameter	24	AWG

ELECTRICAL CHARACTERISTICS @ 20°C

93.8	Ω/km
56	nF/km
68	%
100 ± 5 @ 100MHz	Ω
max. 518	ns
max. 40	ns/100m
b	-
80	V DC
3.3	A/mm ²
	56 68 100 ± 5 @ 100MHz max. 518 max. 40 b

TEMPERATURE CHARACTERISTICS

Storage Temperature	-20 to +70	°C
Operating Temperature	-20 to +70	°C
During installation	-5° to +50	°C

ENVIRONMENTAL CHARACTERISTICS

Jacket material PVC

Flammability Acc. to IEC 60332-1-2 EN50575; Eca DWU 0005

Calorific value 0,52 MJ/m

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TRANSMISSION CHARACTERISCTICS

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	2.0	75.3	72.3	68.0	65.0	73.2	70.2	20.0
4	3.8	66.3	63.3	58.0	55.0	62.5	59.5	23.0
8	5.2	61.8	58.8	51.9	48.9	56.5	53.5	24.5
10	5.9	60.3	57.3	50.0	47.0	54.4	51.4	25.0
16	7.4	57.2	54.2	45.9	42.9	49.9	46.9	25.0
25	9.2	54.3	51.3	42.0	39.0	45.0	42.0	24.3
31.25	10.3	52.9	49.9	40.1	37.1	42.6	39.6	23.6
62.5	14.5	48.4	45.4	34.1	31.1	33.8	30.8	21.5
100	18.4	45.3	42.3	30.0	27.0	26.9	23.9	20.1
155	22.9	42.4	39.4	26.2	23.2	19.5	16.5	18.8
200	26.1	40.8	37.8	24.0	21.0	14.7	11.7	18.0
250	29.2	39.3	36.3	22.0	19.0	10.1	7.1	17.3
300*	32.0	38.1	35.1	20.5	17.5	6.1	3.1	17.3
350*	34.7	37.1	34.1	19.1	16.1	2.5	1.0	17.3
500*	48.9	34.8	31.8	16.0	13.0	0.0		15.0

^{*} For information only

CABLE MARKING

FIBRAINDATA CABLE CAT6 U/UTP 4PR 23 AWG 500MHZ NVP 68% PVC CPR CLASS Eca ISO/IEC11801 EN50173 ANSI/TIA/568-C.2 JJJJ XQ100.10P OFRRRRR . XXXXX M

Where

JJJJ: production year

P: 1 for 305m box, 2 for 500m reel, 3 for 1000m reel

OFRRRRR: manufacturer order

XXXXX: length

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