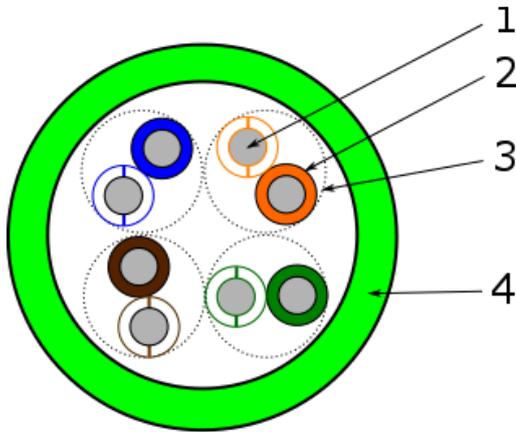


Type:	Installation cable	26.04.2016
	U/UTP Cat.5 4PR LSZH 200 MHz	REV: 0
Ref:	XE100.105 XE100.106 XE100.107	G

## Installation cable Cat.5 U/UTP 4PR LSZH CPR Class D<sub>CA</sub> 200 MHz



### CONSTRUCTION:

- 1 – Conductor**  
Material: solid bare annealed  
Nominal diameter: 24 AWG.
- 2 – Insulation**  
Material: polyolefin.  
Nominal diameter: 0.9 mm.
- 3 – stranded wires**  
Pair: 2, twisted insulated conductors.  
Number of pairs: 4, all twisted together.
- 4 – Outer sheath**  
Material: LSZH.  
Color: green (RAL 6018)



### STANDARDS

ISO/IEC 11801  
EN 50173  
TIA 568 C.2  
IEC 61156-5  
EN 50288-3-1  
IEC 60332-1-2  
IEC 60754-1/2  
IEC 61034-1/2

### SUPPORTED APPLICATIONS

10BASE-T (IEEE 802.3)  
100BASE-T (IEEE 802.3)  
1000BASE-T (Gigabit Ethernet)  
100BASE-VG-AnyLAN  
100 Mbps TP-PMD (ANSI X3T9.5)  
4/16 Mbps TOKEN RING (IEEE 802.5)  
PoE/PoE+

### ORDERING

**XE100.105** – Box 305m  
**XE100.106** – Reel 500m  
**XE100.107** – Reel 1000m

### MECHANICAL CHARACTERISTICS

Min. bending radius in operation	20	mm
Min. bending radius during installation	40	mm
Max. pulling tension	80	N
Nominal weight	29.5	kg/km
Nom. outer diameter	5.0	mm
Nom. wire diameter	24	AWG

### ELECTRICAL CHARACTERISTICS @ 20°C

Max. DC Resistance:	93.8	Ω/km
Nom. Mutual Capacity @ 1kHz	56	nF/km
NVP:	68	%
Mean input Impedance:	100 ± 5 @ 100MHz	Ω
Propagation delay @ 10MHz:	max. 518	ns
Delay Skew:	max. 40	ns/100m
Segregation class	b	-
Max. operating voltage (V dc):	80	V DC
Max. DC intensity per conductor	3.3	A/mm <sup>2</sup>

### TEMPERATURE CHARACTERISTICS

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

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## ENVIRONMENTAL CHARACTERISTICS

Jacket material	LSZH
Flammability	Acc. to IEC 60332-1-2; IEC 60754-1/2; IEC 61034-1/2 EN50575; <b>Dca-s2,d2,a1</b> ; DWU 0002
Calorific value	0,360 MJ/m

## TRANSMISSION CHARACTERISTICS

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	65.3	62.3	63.8	60.8	63.3	60.3	20.0
4	4.1	56.3	53.3	51.8	48.8	52.2	49.2	23.0
8	5.8	51.8	48.8	45.7	42.7	46.0	43.0	24.5
10	6.5	50.3	47.3	43.8	40.8	43.8	40.8	25.0
16	8.2	47.2	44.2	39.7	36.7	39.0	36.0	25.0
25	10.4	44.3	41.3	35.8	32.8	33.9	30.9	24.3
31.25	11.7	42.9	39.9	33.9	30.9	31.2	28.2	23.6
62.5	17.0	38.4	35.4	27.9	24.9	21.4	18.4	21.5
100	22.0	35.3	32.3	23.8	20.8	13.3	10.3	20.1
125*	24.9	33.8	30.8	21.9	18.9	9.0	6.0	19.4
155*	28.1	32.4	29.4	20.0	17.0	4.4	1.4	18.8
200*	32.4	30.8	27.8	17.8	14.8	---	---	18.0

\* For information only

## CABLE MARKING

FIBRAIN DATA CABLE CAT5E U/UTP 4PR 24 AWG 200MHZ NVP 68% LSZH CPR CLASS Dca ISO/IEC11801 EN50173 ANSI/TIA/568-C.2 JJJJ XE100.10P OFRRRRRR . XXXXX M

Where

<b>JJJJ:</b>	production year
<b>P:</b>	5 for 305m box, 6 for 500m reel, 7 for 1000m reel
<b>OFRRRRRR:</b>	manufacturer order
<b>XXXXX:</b>	length