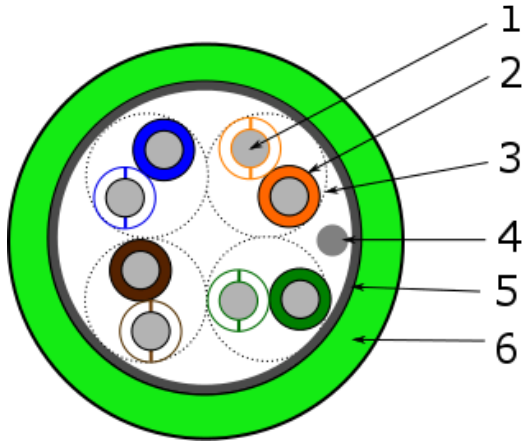


Type:	Installation cable	14.07.2017
	F/UTP Cat.5 4PR LSZH 200 MHz	REV: 0
Ref:	XE100.115 XE100.116 XE100.117	G

Installation cable Cat.5 F/UTP 4PR LSZH CPR Class D_{CA} 200 MHz



CONSTRUCTION:

- 1 – Conductor**
Material: solid bare annealed copper.
Nominal diameter: 24 AWG.
- 2 – Insulation**
Material: polyolefin.
Nominal diameter: 1.0 mm.
- 3 – stranded wires**
Pair: 2, twisted insulated conductors.
Number of pairs: 4, all twisted together.
- 4 – Drain wire:** solid tinned annealed copper.
- 5 – Screen:** aluminum / polyester tape.
- 6 – Outer sheath**
Material: LSZH.
Color: green (RAL 6018)

STANDARDS

ISO/IEC 11801
EN 50173
IEC 61156-5
EN 50288-2-1
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

XE100.115 – Box 305m
XE100.116 – Reel 500m
XE100.117 – Reel 1000m

MECHANICAL CHARACTERISTICS

Min. bending radius in operation	25	mm
Min. bending radius during installation	45	mm
Max. pulling tension	80	N
Nominal weight	35.0	kg/km
Nom. outer diameter	5.6	mm
Nom. wire diameter	24	AWG

ELECTRICAL CHARACTERISTICS @ 20°C

Max. DC Resistance:	95.0	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	c	-
Max.operating voltage (V dc):	80	V DC
Max. DC intensity per conductor	3.3	A/mm ²

TEMPERATURE CHARACTERISTICS

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

ENVIRONMENTAL CHARACTERISTICS

Jacket material	LSZH
Flammability	Acc. to IEC 60332-1-2; IEC 60754-1/2; IEC 61034-1/2 EN50575; D _{CA} -s2,d2,a1; DoP 0004
Calorific value	0,445 MJ/m

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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*	2.1	65.3	62.3	64.0	61.0	63.2	60.3	20.0
4	4.0	56.3	53.3	52.0	49.0	52.3	49.3	23.0
8	5.6	51.8	48.8	45.9	42.9	46.1	43.1	24.5
10	6.3	50.3	47.3	44.0	41.0	44.0	41.0	25.0
16	8.0	47.2	44.2	39.9	36.9	39.2	36.2	25.0
25	10.1	44.3	41.3	36.0	33.0	34.2	31.2	24.3
31.25	11.4	42.9	39.9	34.1	31.1	31.5	28.5	23.6
62.5	16.5	38.4	35.4	28.1	25.1	21.9	18.9	21.5
100	21.3	35.3	32.3	24.0	21.0	14.0	11.0	20.1
125*	24.1	33.8	30.8	22.1	19.1	9.7	6.7	19.4
155*	27.2	32.4	29.4	20.2	17.2	5.2	2.2	18.8
200*	31.4	30.8	27.8	18.0	15.0	---	---	18.0

* For information only

CABLE MARKING

FIBRAIN DATA CABLE CAT5E F/UTP 4PR 24 AWG 200MHZ NVP 68% LSZH CPR CLASS Eca ISO/IEC11801 EN50173 ANSI/TIA/568-C.2 JJJJ XE100.11P OFRRRRRRR . XXXXX M

Where

JJJJ: production year
P: 5 for 305m box, 6 for 500m reel, 7 for 1000 reel
OFRRRRRRR: manufacturer order
XXXXX: length