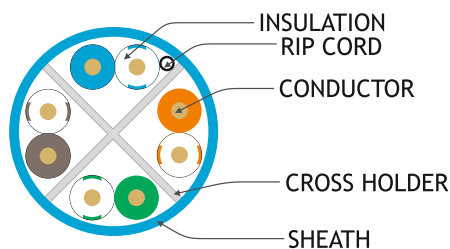


Category 6 cabling U/UTP LSZH coating



01

Cable 500 MHz LSZH sheath U/UTP Category 6

FIBRAIN DATA Structural Cabling Quick Series, fully satisfies the requirements of cat 6 (class E) in accordance with standard ISO/IEC 11801 2nd edition: 2002. Also all components of the transmission line complete ROHS 2002/95/WE Directive.

Electrical and constructional parameters:		
Parameter:		
Resistance (max) Ohm/100m (328 ft) @ 20 °C		8,90
Capacity (max) nF/100m (328ft) @ 1 kHz		5,60
Nominal velocity of propagation NVP (% speed of light)		68
Impedance (Ohm)		(min-max)
Value for:	1,0 - 100 MHz	85-115
	100 - 350 MHz	78-122
	350 - 500 MHz	68-132
Coefficient of delay (max) (ns @ 10 MHz)		518
Delay skew (max) (ns/100 m)		35
Diameter (mm)		6,1
Weigh(kg/km)		42
Minimal bending radius (mm)		24,5
Temperature of installation (°C)		-20/+50
Temperature of operation (°C)		-10/+60
Calorific value (MJ/m)		0.446

Construction:

- Conductor - 23 AWG (0,574 mm)
- Insulation: polyolefine
- Number of wires: 4 pairs twisted together
- Blue jacket - LSZH material according to norm IEC 60332-1

Application:

- Supports full and half duplex application
- Digital and analogue video transmission
- 16 Mbps Token Ring
- 100 Mbps TP-PMOD
- 100 BASE-T (IEEE 802.3)
- 1000 BASE-T (Gigabit Ethernet)
- 155/622 Mbps ATM
- 1.2 Gbps ATM

Norms:

- IEC 60332-1, PN-EN 50265-2-1
- LSZH: PN-EN 50268-1
- PN-EN 50267-2-1, PN-EN 50266-2-4
- ANSI/TIA/EIA 568-B.2-1 (Cat.6)
- ISO/IEC 11801 : 2002, EN 50173 : 2002

Cable marking:

Below information is printed on each meter of the cable:

- **Supplier:** FIBRAIN DATA
- **Cable Type:** U/UTP 4PR23AWG CAT.6 500 MHz
- **Jacket type:** LSZH
- **Norms:** IEC 60332-1 ISO/IEC 11801 AND EN 50173 AND ANSI/TIA/EIA 568-B-2.1
- **Year of production:** XXXX
- **ID number:** XXXX
- **Length marking in meters**



Frequency Mhz:	Attenuation Max dB/100 m:	NEXT	PS-NEXT	ACR-F dB/100 m(min):	PS-ACR-F	Return Loss
1	1,8	76,7	73,7	73,0	73,0	---
10	6,5	69,2	66,2	61,0	58,0	34,4
16	8,2	67,6	64,6	56,9	53,9	33,8
31,25	9,9	65,4	62,4	51,1	48,1	33,3
62,5	14,1	61,9	58,9	45,1	42,1	33,0
100	18,0	58,9	55,9	41,0	38,0	32,1
155	22,7	56,0	53,0	37,2	34,2	31,5
250	29,2	52,9	49,9	33,0	30,0	30,4
350	35,1	50,7	47,7	30,1	27,1	---
500	43,0	48,4	45,4	27,0	24,0	---

XQ 100.105 FIBRAIN DATA Quick U/UTP Cat. 6 500 MHz drum 305 m jacket LSZH blue colour

XQ 100.106 drum 500 m.
XQ 100.107 drum 1000 m.