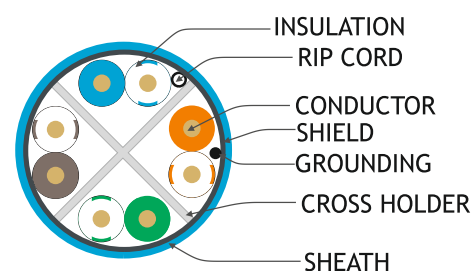


Category 6 cabling

F/UTP LSZH coating

01



Cable 350 MHz LSZH sheath

F/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)	70
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)	7,1
Weigh(kg/km)	51,3
Minimal bending radius (mm)	28,3
Temperature of installation (°C)	-10/+50
Temperature of operation (°C)	0/+50

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
- Shield: aluminum foil/ polyester around all pairs
- Grounding: cooper, galvanized drainage wire ϕ 0,4 mm

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: UNE-EN 50268-1
- UNE-EN 50267-2-1, UNE-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: F/UTP 4PR 23AWG CAT.6 350 MHz
- Jacket type: LSZH
- Norms: IEC 61156-5 ISO/IEC 11801 EN 50173
- Year of production: XXXX
- ID number: XXXX
- Length marking in meters



Frequency MHz:	Attenuation Max dB/ 100 m:	NEXT	PS-NEXT	ACR-F	PS-ACR-F	Return Loss
		dB/100 m(min):				
1	2,1	75,3	72,3	68,0	65,0	20,0
10	6,0	60,3	57,3	48,0	45,0	25,0
16	7,6	57,2	54,2	43,9	40,9	25,0
31,25	10,7	52,9	49,9	38,1	35,1	23,6
62,5	15,5	48,4	45,4	32,1	29,1	21,5
100	19,9	45,3	42,3	28,0	25,0	20,1
155	25,3	42,4	39,4	24,2	21,2	18,8
200	29,1	40,8	37,8	22,0	19,0	18,0
250	33,0	39,3	36,3	20,0	17,0	17,3

XQ 100.116 FIBRAIN DATA Quick F/UTP Cat. 6 350 MHz drum 500 m jacket LSZH blue colour

XQ 100.117 drum 1000 m.