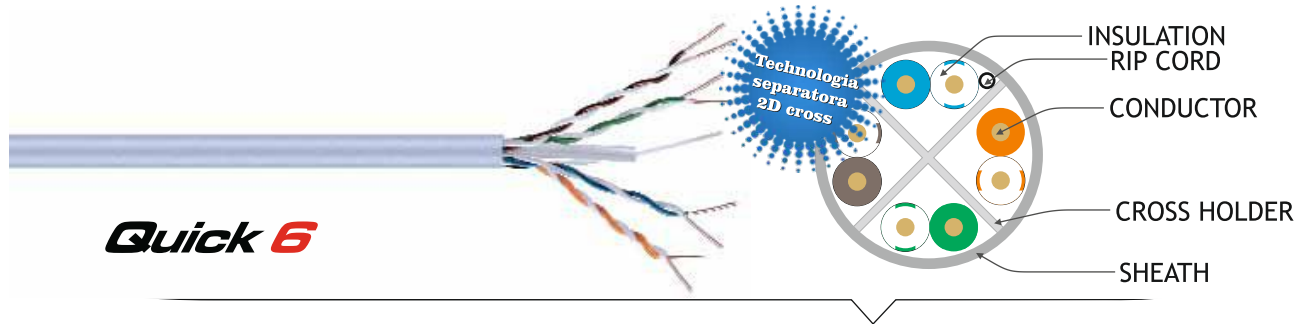


# Category 6 cabling

## U/UTP PVC coating

01



### Cable 500 MHz PVC 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			5,20
Nominal velocity of propagation NVP (% speed of light)			68
Impedance (Ohm)			(min-max)
	Value for:		
	1,0 - 10 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)			45
Diameter (mm)			6,2
Weigh(kg/km)			42
Minimal bending radius (mm)			25
Temperature of installation (°C)			-20/+50
Temperature of operation (°C)			-10/+60

#### Construction:

- Conductor - 23 AWG (0,574 mm)
- Insulation: polyolefine
- Number of wires: 4 pairs twisted together
- Grey jacket - PVC material

#### 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
- ANSI/TIA/EIA 568-C.2-1 (Cat. 6)
- ISO/IEC 11801
- EN 50173

#### 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:** PVC
- **Norms:** IEC 60332-1 ISO/IEC 11801 AND EN 50173 AND ANSI/TIA/EIA 568-C-2.1
- **Year of production:** XXXX
- **ID number:** XXXX
- **Length marking in meters**



Frequency MHz:	Attenuation Max dB/100m:	NEXT	PS-NEXT	ACR-F	PS-ACR-F	Return Loss
				dB/100 m(min):		
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 100.101 FIBRAIN DATA Quick U/UTP Cat. 6 500 MHz drum 305 m jacket PVC grey colour**

XQ 100.102 drum 500 m

XQ 100.103 drum 1000 m