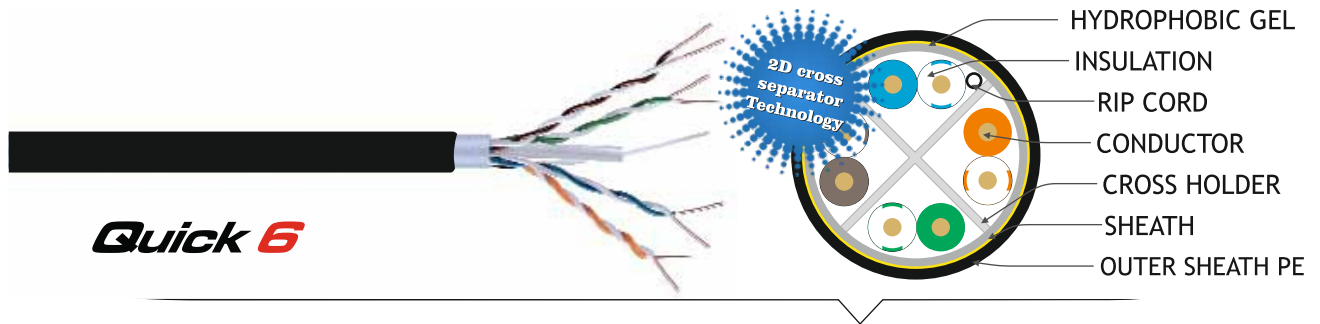


# Category 6 cabling

## U/UTP PVC+PE coating

01



### OUTDOOR Cable 500 MHz PVC+PE sheath wet core 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)	7,4		
Weigh(kg/km)	52		
Minimal bending radius (mm)	30		

#### Construction:

- Conductor - 23 AWG (0,574 mm)
- Insulation: polyolefine
- Number of wires: 4 pairs twisted together
- Internal jacket - grey PVC
- External jacket - black PE
- Hydrophobic gel under the outer sheath

#### 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+PE
- **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 100.155 FIBRAIN DATA Quick U/UTP Cat. 6 500 MHz drum 305 m outdoor jacket PVC+PE black colour**

XQ 100.156 drum 500 m

XQ 100.157 drum 1000 m