

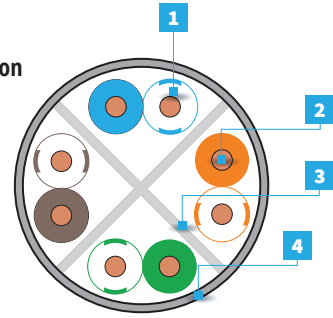
# U/UTP cat. 6 500 MHz

## Quick 6



### Cable construction

1. Insulation
2. Conductor
3. Cross web
4. Jacket



FibrainDATA Quick U/UTP Cat.6 500 MHz		
305 m box	XQ100.101	XQ100.105
500 m drum	XQ100.102	XQ100.106
1000 m drum	XQ100.103	XQ100.107
	JACKET - PVC GREY	JACKET - LSZH BLUE

ELECTRICAL AND CONSTRUCTION PARAMETERS		
Resistance (max) Ohm/100 m(328 ft) @ 20 °C	8.90	
Mutual capacitance (max) nF/100 m(328 ft) @ 1 kHz	5.20	
Nominal velocity of propagation NVP (% speed of light)	68	
Impedence characteristic [Ohm]	(min-max)	
values at		
	1.0 - 10 MHz	78 - 122
	100 - 350 MHz	85 - 115
	350 - 500 MHz	68 - 132
Propagation delay (max) [ns @ 10 MHz]	518	
Delay skew (max) [ns/100 m]	40	
Diameter [mm]	6.0	
Weight [kg/km]	40	
Minimal bending radius [mm]	25	
Installation temperature [°C]	-20/+70	
Operating temperature [°C]	-20/+70	

Frequency [MHz]	Max. attenuation [dB/100 m]	NEXT	PS-NEXT	ACR-F	PS-ACR-F	Return loss [dB]
		[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	---

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### Applications

- Half and full duplex transmission
- Analog and digital transmission of video signals
- 16 Mbps Token Ring
- 100Mbps TP-PMOD
- 100 BASE-T (IEEE 802.3)
- 1000 BASE-T (Gigabit Ethernet)
- 155/622 Mbps ATM
- 1.2 Gbps ATM

### Norms

- PN-EN 60332-1
- ANSI/TIA/EIA 568-C.2 (Cat.6)
- ISO/IEC 11801 : 2011
- EN 50173 : 2011
- PN-EN 50288

### Construction

- Conductor (wire) - 23 AWG (0.574 mm)
- Insulation - polyolefin
- Pair number - 4 twisted pairs
- Jacket - grey PVC
- Jacket - blue LSZH