

U/FTP cat. 6 450 MHz

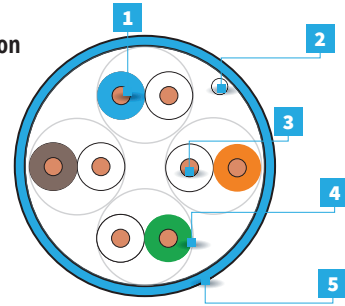
Quick 6

U/FTP cat. 6 450 MHz



Cable construction

1. Insulation
2. Drain wire
3. Conductor
4. Aluminium foil
5. Jacket



FibraINDATA Quick U/FTP Cat.6 Jacket LSZH 450 MHz

500 m drum	XQ100.126
1000 m drum	XQ100.127
JACKET - LSZH BLUE	

ELECTRICAL AND CONSTRUCTION PARAMETERS

Impedance from 10 do 250 MHz [Ohm]	100±5
Nominal velocity of propagation NVP (% speed of light)	74
Impedance:	
values at	30 - 100 MHz
	100 - 1000 MHz
	>65 dB
	65-20log(f/100)
Return loss (RL) dB (min)	
values at	20 - 100 MHz
	10 - 20 MHz
	1.0 - 10 MHz
	20+5 log(f)
	25
	25-7 log(f/20)
Propagation delay (max) [ns/100 m]	518
Delay skew (max) [ns/100 m]	40
Dielectric strength during 1 minute (V c.c.)	1000
Insulation strength (MΩm*km)	>5000
Nominal/maximum operating voltage [V]	125/200
Maximum operating current [A]	0.25
Diameter	7.4
Weight [kg/km]	51
Minimal bending radius [mm]	30
Operating temperature [°C]	-20/+70
Installation temperature [°C]	-20/+70

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

- LSZH: PN-EN 61034, PN-EN 50267-2-1
- PN-EN 60332-1, PN-EN 60332-3-24
- ANSI/TIA/EIA 568-C.2 (Cat.6)
- ISO/IEC 11801:2011
- PN-EN 50173:2011

Construction

- Conductor (wire) - 23 AWG (0.574 mm)
- Insulation: polyolefin
- Pair number: 4 twisted pairs
- Jacket: blue LSZH in accordance with IEC 60322-1
- Shield: aluminium/polyester foil around each pair
- Grounding: galvanized copper wire Ø0.4 mm

Frequency [MHz]	Max. attenuation [dB/100 m]	NEXT	PS-NEXT	ACR-F	PS-ACR-F	ACR-F	PS-ACR-F	Return loss [dB]
		[dB/100 m] min						
1	2.1	75.3	72.3	68.0	65.0	73.2	70.2	20.0
4	3.8	66.3	63.3	58.0	55.0	62.5	59.5	23.0
8	5.2	61.8	58.8	51.9	48.9	56.5	53.5	24.5
10	5.9	60.3	57.3	50.0	47.0	54.4	51.4	25.0
16	7.4	57.2	54.2	45.9	42.9	49.9	46.9	25.0
25	9.2	54.3	51.3	42.0	39.0	45.0	42.0	24.3
31.25	10.3	52.9	49.9	40.1	37.1	42.6	39.6	23.6
62.5	14.5	48.4	45.4	34.1	31.1	33.8	30.8	21.5
100	18.4	45.3	42.3	30.0	27.0	26.9	23.9	20.1
155	22.9	42.4	39.4	26.2	23.2	19.5	16.5	18.8
200	26.1	40.8	37.8	24.0	21.0	14.7	11.7	18.0
250	29.2	39.3	36.3	22.0	19.0	10.1	7.1	17.3
300	32.0	38.1	35.1	20.5	17.5	6.1	3.1	17.3
350	34.7	37.1	34.1	19.1	16.1	2.5	1.0	17.3
450	39.5	35.5	32.5	16.9	13.9	1.0	---	16.0