

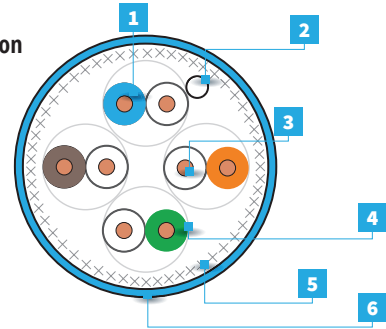
S/FTP cat. 6 450 MHz

Quick 6



Cable construction

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



FibrainDATA Quick S/FTP Cat.6 450 MHz		
500 m drum	XQ100.146	XQ100F146
1000 m drum	XQ100.147	XQ100F147
	JACKET - LSZH BLUE	JACKET - FR-LSZH BLUE

ELECTRICAL AND CONSTRUCTION PARAMETERS		
Impedance from 10 do 450 MHz [Ohm]		100±5
Nominal velocity of propagation NVP (% speed of light)		78
Impedance:		
values at	30 - 100 MHz	>80 dB
	100 - 1000 MHz	80-20log(f/100)
Return loss (RL) dB (min)		
values at	20 - 100 MHz	20+5 log(f)
	10 - 20 MHz	25
	1.0 - 10 MHz	25-7 log(f/20)
Propagation delay (max) [ns/100 m]		470
Delay skew (max) [ns/100 m]		25
Dielectric strength during 1 minute (V c.c.)		700
Insulation strength (MΩm*km)		>5000
Nominal/maximum operating voltage [V]		125/200
Maximum operating current [A]		0.25

Frequency [MHz]	Max. attenuation [dB/100 m]		NEXT								Return loss [dB]	
			NEXT		PS-NEXT		ACR-F		PS-ACR-F			
			[dB/100 m] min									
1	2.0	2.8	90.0	72.3	93.0	75.3	93.0	68.0	90.0	65.0	22.0	20.0
4	3.7	3.8	85.0	63.3	88.0	66.3	93.0	56.0	90.0	53.0	25.0	23.0
10	5.7	6.0	85.0	57.3	88.0	60.4	83.0	48.0	80.0	45.0	28.0	25.0
20	8.1	8.5	85.0	52.8	88.0	55.8	83.0	42.0	80.0	39.0	28.0	25.0
30	10.0	10.5	85.0	50.1	88.0	53.1	73.0	38.5	70.0	35.5	27.0	23.8
100	19.0	19.9	80.0	42.3	83.0	45.3	66.0	28.0	63.0	25.0	24.0	21.1
150	23.6	24.9	80.0	39.7	83.0	42.7	63.0	24.5	60.0	21.5	22.0	18.8
200	27.7	29.1	80.0	37.8	83.0	40.8	61.0	22.0	58.0	19.0	21.0	18.0
250	31.4	33.0	77.0	36.3	80.0	39.3	58.0	20.0	55.0	17.0	20.0	17.3
300	41.0	N/A	38.1	N/A	75.0	N/A	52.0	N/A	49.0	N/A	19.0	17.3
400	34.8	N/A	77.0	N/A	80.0	N/A	55.0	N/A	52.0	N/A	19.0	17.3
500	46.7	N/A	35.5	N/A	75.0	N/A	50.0	N/A	47.0	N/A	19.0	17.3

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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

- 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
- 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
- Jacket: blue FR-LSZH
- Shield: aluminium/polyester foil around each pair
- Shield: Braid around all pairs
- Grounding: galvanized copper wire Φ0.4 mm