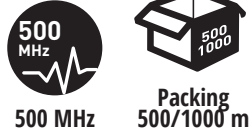


U/FTP cat. 6_A 500 MHz

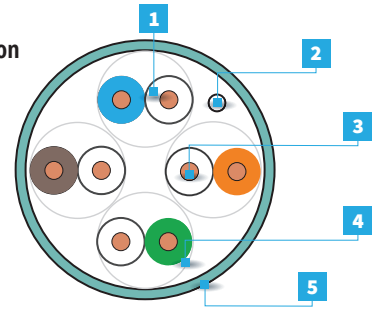
Rapid 6a

U/FTP cat. 6_A 500 MHz



Cable construction

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



FibrainDATA Rapid U/FTP Cat.6 _A Jacket LSZH 500 MHz	
500 m drum	XR100.126
1000 m drum	XR100.127
JACKET - LSZH AQUA	

ELECTRICAL AND CONSTRUCTION PARAMETERS		
Impedance from 10 do 500 MHz [Ohm]	100±5	
Nominal velocity of propagation NVP (% speed of light)	74	
Return loss (RL) dB (min)		
values at	30 - 100 MHz	>55 dB
	100 - 1200 MHz	55-20log(f/100)
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 [mm]	7.4	
Weight [kg/km]	50.4	
Fire retardant	NFC 32070 C2	
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	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	56.0	53.0	62.5	59.5	23.0
8	5.3	61.8	58.8	69.9	46.9	56.4	53.4	24.5
10	5.9	60.3	57.3	48.0	45.0	54.4	51.4	25.0
16	7.5	57.2	54.2	43.9	40.9	49.8	46.8	25.0
25	9.4	54.3	51.3	40.0	37.0	45.0	42.0	24.3
31.25	10.5	52.9	49.9	38.1	35.1	42.4	39.4	23.6
62.5	15.0	48.4	45.4	32.1	29.1	33.4	30.4	21.5
100	19.0	45.3	42.3	28.0	25.0	26.2	23.2	20.1
155	24.1	42.4	39.4	24.2	21.2	18.4	15.4	18.8
200	27.6	40.8	37.8	22.0	19.0	13.2	10.2	18.0
250	31.1	39.3	36.3	20.0	17.0	8.3	5.3	17.3
300	34.3	38.1	35.1	18.5	15.5	3.9	0.9	17.3
350	37.2	37.1	34.1	17.1	14.1	---	---	17.3
400	40.1	36.3	33.3	16.0	---	---	---	17.3
500	45.3	34.8	31.8	14.0	---	---	---	17.3

Applications

- Half and full duplex transmission
- Analog and digital transmission of video signals
- 100Mbps TP-PMOD
- 100 BASE-T (IEEE 802.3)
- 1000 BASE-T (Gigabit Ethernet)
- 155/622 Mbps ATM
- 1.2 Gbps ATM
- 10G BASE-T (10 Gigabit Ethernet)

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.6A)
- ISO/IEC 11801:2011
- EN 50173:2011

Construction

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