

S/FTP cat. 6_A 500 MHz

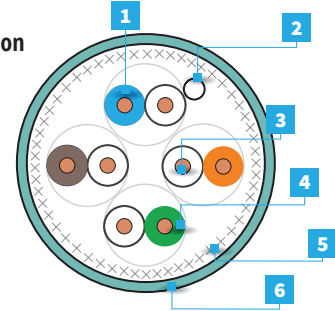
Rapid 6a



S/FTP cat. 6_A 500 MHz

Cable construction

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



FibraInDATA Rapid S/FTP Cat.6 _A 500 MHz		
500 m drum	XR100.146	XR100F146
1000 m drum	XR100.147	XR100F147
JACKET - LSZH AQUA		JACKET - FR-LSZH AQUA

ELECTRICAL AND CONSTRUCTION PARAMETERS		
Impedance from 10 to 500 MHz [Ohm]	100±5	
Nominal velocity of propagation NVP (% speed of light)	78	
Return loss:		
values at	30 - 100 MHz	>80 dB
	100 - 1000 MHz	80-20log(f/100)
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	
Resistance in C.C (Ωm/k)	125/200	
Diameter [mm]	7.5	
Weight [kg/km]	61	
Fire retardant	NFC 32070 C2	
Operating temperature [°C]	-20/+70	

Frequency [MHz]	Max. attenuation [dB/100 m]		NEXT, PS-NEXT, ACR-F, PS-ACR-F [dB/100 m] min								Return loss [dB]	
			NEXT		PS-NEXT		ACR-F		PS-ACR-F			
1	2.0	2.0	98.0	75.3	95.0	72.3	88.0	68.0	85.0	65.0	19.0	17.3
4	3.7	3.8	98.0	66.3	95.0	63.3	76.0	56.0	73.0	53.0	19.0	17.3
10	5.6	5.9	98.0	60.3	95.0	57.3	68.0	48.0	65.0	45.0	19.0	17.3
20	7.9	8.4	93.0	55.8	90.0	52.8	62.0	42.0	59.0	39.0	19.0	N/A
30	9.7	10.3	88.0	53.1	85.0	45.4	58.4	38.4	55.4	35.4	19.0	N/A
100	18.0	19.1	83.0	45.3	80.0	42.3	48.0	28.0	45.0	25.0	22.0	20.0
150	22.4	23.6	81.0	42.7	78.0	39.7	44.5	24.5	41.5	21.5	25.0	23.0
200	26.0	27.6	81.0	40.8	78.0	37.8	42.0	22.0	40.0	19.0	28.0	25.0
250	29.4	31.0	78.0	39.3	75.0	36.3	40.0	20.0	37.0	17.0	28.0	25.0
300	32.5	34.3	78.0	38.1	73.0	35.1	38.5	18.5	35.5	15.5	27.0	23.8
400	38.0	40.0	73.0	36.3	70.0	33.3	36.0	16.0	33.0	13.0	24.0	21.1
500	43.0	45.2	73.0	34.8	68.0	31.8	34.0	14.0	31.0	11.0	22.0	18.8
600	47.6	N/A	73.0	N/A	65.0	N/A	33.0	N/A	30.0	N/A	21.0	18.0
700	52.0	N/A	73.0	N/A	62.0	N/A	32.0	N/A	29.0	N/A	20.0	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
 - PN-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
 - Jacket: FR-LSZH aqua
 - Shield: aluminium/polyester foil around each pair
 - Shield: Braid around all pairs
 - Grounding: galvanized copper wire Ø0.4 mm