

# S/FTP cat. 7<sub>A</sub> 1200 MHz

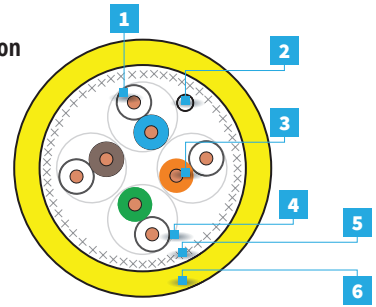
## ULTRA 7A

S/FTP cat. 7<sub>A</sub> 1200 MHz



### Cable construction

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



FibrainDATA UltraA S/FTP Cat.7A 1200 MHz		
500 m drum	XUA100.146	XUA100F146
1000 m drum	XUA100.147	XUA100F146
	<b>JACKET - LSZH YELLOW</b>	<b>JACKET - FR-LSZH YELLOW</b>

ELECTRICAL AND CONSTRUCTION PARAMETERS		
Impedance from 10 to 1200 MHz [Ohm]	100±5	
Nominal velocity of propagation NVP (% speed of light)	78	
Return loss (RL) dB (min)		
values at	30 - 100 MHz	>80 dB
	100 - 1200 MHz	80-20log(f/100)
Delay skew (max) [ns/100 m]	20	
Dielectric strength during 1 minute (V c.c.)	700	
Insulation strength (MΩm*km)	>5000	
Nominal/maximum operating voltage [V]	45/200	
Maximum operating current [A]	0.25	
Resistance in C.C (Ωm/k)	164	
Diameter [mm]	8.1	
Weight [kg/km]	66	
Fire retardant	NFC 32070 C2	
Operating temperature [°C]	-40/+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	1.8	2.0	103.0	78.0	100.0	75.0	110.0	78.0	108.0	75.0	31.0	20.0
4	3.2	3.8	103.0	78.0	100.0	75.0	108.0	78.0	105.0	75.0	31.0	23.0
10	4.9	5.8	103.0	78.0	100.0	75.0	103.0	74.0	100.0	71.0	31.0	25.0
20	7.0	8.2	103.0	78.0	100.0	75.0	93.0	68.0	90.0	65.0	31.0	25.0
30	8.6	10.1	103.0	78.0	100.0	75.0	93.0	64.5	90.0	61.5	31.0	23.8
100	15.7	18.5	103.0	78.0	100.0	75.0	88.0	54.0	85.0	51.0	31.0	21.1
150	19.4	22.8	103.0	78.0	100.0	75.0	87.0	50.5	84.0	47.5	26.0	18.8
200	22.5	26.5	98.0	76.8	95.0	73.8	83.0	48.0	80.0	45.0	26.0	18.0
250	25.3	29.7	96.0	75.4	93.0	72.4	81.0	46.0	78.0	43.0	25.0	17.3
300	27.8	32.7	95.0	74.2	92.0	71.2	78.0	44.5	75.0	41.5	25.0	17.3
400	32.3	38.0	95.0	72.3	91.0	69.3	73.0	41.9	70.0	38.9	25.0	17.3
500	36.3	42.7	93.0	70.9	90.0	67.9	72.0	40.0	69.0	37.0	23.0	17.3
600	40.0	47.1	92.0	69.7	89.0	66.7	71.0	38.4	68.0	35.4	23.0	17.3
1000	52.7	62.0	88.0	66.4	85.0	63.4	70.0	34.0	67.0	31.0	21.0	17.3

### Applications

- Analog and digital transmission of video signals
- 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)
- Broadband CATV
- 40 i 100 Gigabit Ethernet

### Norms

- LSZH: PN-EN 61034, PN-EN 50267-2-1
- PN-EN 60332-1, PN-EN 60332-3-24
- ISO/IEC 11801:2011
- EN 50173:2011

### Construction

- Conductor (wire) - 23 AWG (0.574 mm)
- Insulation: polyolefin
- Pair number: 4 twisted pairs
- Jacket: LSZH yellow in accordance with IEC 60322-1
- Jacket: FR-LSZH yellow
- Shield: aluminium/polyester foil around each pair
- Shield: Braid around all pairs
- Grounding: galvanized copper wire Φ 0.4 mm