

S/FTP cat. 7 900 MHz

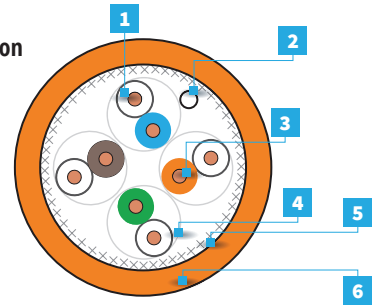
ULTRA 7

S/FTP cat. 7 900 MHz



Cable construction

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



FibrainDATA Ultra S/FTP Cat.7 900 MHz		
500 m drum	X9U100.146	X9U100F146
1000 m drum	X9U100.147	X9U100F147
	JACKET - LSZH ORANGE	JACKET - FR-LSZH ORANGE

ELECTRICAL AND CONSTRUCTION PARAMETERS		
Impedance from 10 to 900 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]		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)		164
Diameter [mm]		7.1
Weight [kg/km]		60
Fire retardant		NFC 32070 C2
Operating temperature [°C]		-40/+65

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	108.0	78.0	105.0	75.0	98.0	78.0	95.0	75.0	19.0	17.3
4	3.6	3.7	101.0	78.0	98.0	75.0	93.0	78.0	90.0	75.0	19.0	17.3
10	5.6	5.8	98.0	78.0	95.0	75.0	89.0	74.0	86.0	71.0	19.0	17.3
20	7.9	8.3	93.0	78.0	90.0	75.0	83.0	68.0	80.0	65.0	19.0	17.3
30	9.7	10.2	88.0	78.0	85.0	75.0	79.0	64.5	76.0	61.5	22.0	20.0
100	18.0	19.0	83.0	72.4	80.0	69.4	69.0	54.0	66.0	51.0	25.0	23.0
150	22.4	23.6	81.0	69.7	78.0	66.7	66.0	50.5	63.0	47.5	28.0	25.0
200	26.0	27.5	81.0	68.0	78.0	65.0	63.0	48.0	60.0	45.0	28.0	25.0
250	29.4	31.0	78.0	66.4	75.0	63.4	61.0	46.0	58.0	43.0	27.0	23.8
300	32.5	34.2	78.0	65.2	75.0	62.2	55.0	44.5	52.0	41.5	24.0	21.1
400	38.0	40.0	73.0	63.4	70.0	60.4	52.0	41.9	49.0	38.9	22.0	18.8
500	43.0	45.2	73.0	61.9	70.0	58.9	50.0	40.0	47.0	37.0	21.0	18.0
600	47.6	50.1	73.0	60.7	70.0	57.7	48.0	38.4	45.0	35.4	20.0	17.3

Applications

- Half and full duplex transmission
- 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

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