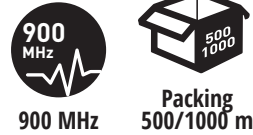


F/FTP cat. 7 900 MHz

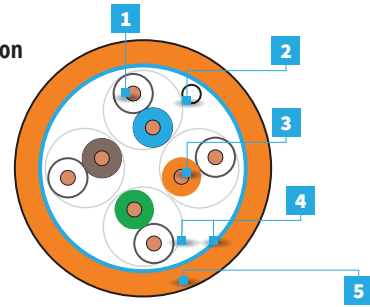
ULTRA 7

F/FTP cat. 7 900 MHz



Cable construction

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



FibrainDATA Ultra F/FTP Cat.7 Jacket LSZH 900 MHz	
500 m drum	X9U100.136
1000 m drum	X9U100.137
JACKET - LSZH ORANGE	

ELECTRICAL AND CONSTRUCTION PARAMETERS		
Impedance from 10 to 900 MHz [Ohm]		100±5
Nominal velocity of propagation NVP (% speed of light)		74
Return loss (RL) dB (min)		
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.)		1000
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]		7.5
Weight [kg/km]		55
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	PS-ACR	Return loss
		[dB/100 m] min						
1*	2.0	78.0	75.0	78.0	75.0	76.0	73.0	20.0
4	3.7	78.0	75.0	78.0	75.0	74.3	71.3	23.0
8	5.2	78.0	75.0	77.2	74.2	72.8	69.8	24.5
10	5.9	78.0	75.0	75.3	72.3	72.1	69.1	25.0
16	7.4	78.0	75.0	71.2	68.2	70.6	67.6	25.0
25	9.3	78.0	75.0	67.3	64.3	68.7	65.7	24.3
31.25	10.4	78.0	75.0	65.4	62.4	67.6	64.6	23.6
62.5	14.9	75.5	72.5	59.4	56.4	60.6	57.6	21.5
100	19.0	72.4	69.4	55.3	52.3	53.4	50.4	20.1
155	24.0	69.5	66.5	51.5	48.5	45.6	42.6	18.8
200	27.5	67.9	64.9	49.3	46.3	40.4	37.4	18.0
250	31.0	66.4	63.4	47.3	44.3	35.5	32.5	17.3
300	34.2	65.2	62.2	45.8	42.8	31.1	28.1	17.3
350	37.2	64.2	61.2	44.4	41.4	27.1	24.1	17.3
400	40.0	63.4	60.4	43.3	40.3	23.4	20.4	17.3
500	45.3	61.9	58.9	41.3	38.3	16.7	13.7	17.3
600	50.1	60.7	57.7	39.7	36.7	10.6	7.6	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 60332-1-2,
- PN-EN 50267-2-1, PN-EN 60332-3, IEC 60754-1
- ISO/IEC 11801:2011
- EN 50173:2011

Construction

- Conductor (wire) - 23 AWG (0.574mm)
- Insulation: polyolefin
- Pair number: 4 twisted pairs
- Jacket: LSZH orange
- Shield: aluminium/polyester foil around each pair
- Shield: aluminium/polyester foil around all pairs
- Grounding: galvanized copper wire Φ 0.4 mm