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Cable 900 MHz FR-LSZH sheath
F/FTP Category 7

Structural Cabling FIBRAIN DATA Ultra Series, fully satisfies the requirements of cat. 7 (class F) in accordance with standard ISO/IEC 11801 2nd Ed. as well as EN 50173-1. Moreover all components of the transmission line complete ROHS 2002/95/WE Directive. Characterized cables are with upgraded parameter up to 900 Mhz.

Electrical and constructional parameters:

Parameter:		
Impedance 10 to 900 MHz (Ohm)		100±5
Nominal velocity of propagation NVP (% speed of light)		72
Attenuation:		
Value for:	-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
DC resistance in C.C (Ωm/k)		164
Diameter (mm)		7,5
Weight (kg/km)		60
Flame resistance		NFC 32070 C2
Temperature while installation (°C)		-10/+50
Temperature while operation (°C)		0/+50

Application:

- Supports full and half duplex application
- Digital and analogue video transmission
- 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:

- FR-LSZH: PN-EN 61034, PN-EN 60332-1-2,
- PN-EN 50267-2-1, PN-EN 60332-3, IEC 60754-1
- ISO/IEC 11801, EN 50173

Cable marking:

Below information is printed on each meter of the cable:

- **Supplier:** FIBRAIN DATA
- **Cable Type:** F/FTP 4PR 23AWG CAT.7 900 MHz
- **Jacket type:** FR-LSZH
- **Norms:** IEC 61156–5 ISO/IEC 11801 EN 50173
- **Year of production:** XXXX
- **ID number:** XXXX
- **Length marking in meters**

Construction:

- Conductor: 23 AWG (0,574 mm)
- Insulation: polyolefine
- Number of wires: 4 pairs twisted together
- Orange jacket FR-LSZH according to IEC 60322-1
- Shield: aluminum foil/polyester around each pair
- Shield: aluminum foil/polyester around all pairs
- Grounding: cooper, galvanized drainage wire φ 0,4 mm



Frequency Mhz:	Attenuation Max dB/100m:	NEXT	PS-NEXT	ACR-F	PS-ACR-F	Return Loss
				dB/100m(min):		
1	2,0	78,0	75,0	78,0	75,0	23,0
10	5,9	78,0	75,0	74,0	71,0	25,0
16	7,4	78,0	75,0	69,9	66,9	25,0
31,25	10,4	78,0	75,0	64,1	61,1	23,6
62,5	14,8	75,5	72,5	58,1	55,1	21,5
100	18,8	72,4	69,4	54,0	51,0	20,1
155	23,5	69,5	66,5	50,2	47,2	18,8
250	31,0	66,5	63,5	46,0	43,0	17,3
600	49,3	60,7	57,7	38,4	35,4	17,3
900	59,0	50,0	47,0	30,0	27,0	17,3

X9U 100F136 FIBRAIN DATA Ultra F/FTP Cat. 7 900 MHz drum 500 m FR-LSZH jacket orange colour