



FUTURE 8 1800MHZ

01

Kabel 1800 MHz LSZH sheath
S/FTP Category 8

Structural Cabling FIBRAIN DATA Ultra A Series, fully satisfies the requirements of cat. 7_A (class F_A) in accordance with standard ISO/IEC 11801 2nd Ed. Am.2 as well as EN 50173-1. Moreover all components of the transmission line complete ROHS 2002/95/WE Directive and requirements presented in IEC 61156-7.

Electrical and constructional parameters:

Parameter:		
Impedance 10 to 1000 MHz (Ohm)		100±5
Nominal velocity of propagation NVP (% speed of light)		79-80%
Attenuation:		
Value for:	-30 - 100 MHz	>80 dB
	100 - 1200 MHz	80-20log(f/100)
Delay skew (max) (ns/100 m)		<40
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
DC resistance in C.C (Ωm/k)		164
Diameter(mm)		8,4
Weight (kg/km)		64
Flame resistance		NFC 32070 C2
Temperature while operation (°C)		-40/+65

Construction:

- Conductor: 22 AWG (0,574 mm)
- Insulation: cellular PO
- Number of wires: 4 pairs twisted together
- Orange jacket LSZH according to IEC 60322-1
- Shield: aluminum foil/polyester around each pair
- Shield: braid around all pairs
- Grounding: cooper, galvanized drainage wire φ 0,4 mm

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
- 40 and 100 Gigabit Ethernet

Norms:

- LSZH: EN 61034, EN 50267-2-1
- EN 60332-1, EN 60332-3-24
- ISO/IEC 11801, EN 50173
- IEC 61156-7

Cable marking:

Below information is printed on each meter of the cable:

- **Supplier:** FIBRAIN DATA
- **Cable Type:** S/FTP 4PR 22AWG CAT.8 1800MHZ
- **Jacket type:** LSZH
- **Norms:** IEC 61156-7 ISO/IEC 11801 EN 50173
- **Year of production:** XXXX
- **ID number:** XXXXXX
- **Length marking in meters**



Frequency MHz:	Attenuation Max dB/100m	NEXT	PS-NEXT	COUPLING ATT.	Return Loss
1	1,9	90,0	87,0	NS	27,0
4	3,4	90,0	87,0	NS	27,0
10	5,4	90,0	87,0	NS	27,0
16	6,8	90,0	87,0	NS	27,0
30	9,3	90,0	87,0	90,0	27,0
54,1	12,7	90,0	87,0	90,0	27,0
62,5	13,7	89,1	86,1	90,0	27,0
100	17,5	86,0	83,0	90,0	27,0
200	25,3	81,5	78,5	84,0	23,0
300	31,5	78,8	75,8	80,5	23,0
600	46,3	74,3	71,3	74,4	20,0
900	58,4	71,7	68,7	70,9	18,2
1000	62,0	71,0	68,0	70,0	17,8
1200	69,0	69,8	66,8	68,4	17,0
1500	71,0	75,0	72,0	67,3	19,0

XF100.146 FIBRAIN DATA FUTURE 8 S/FTP Kat.8 1800 MHz drum 500 m LSZH jacket yellow colour