

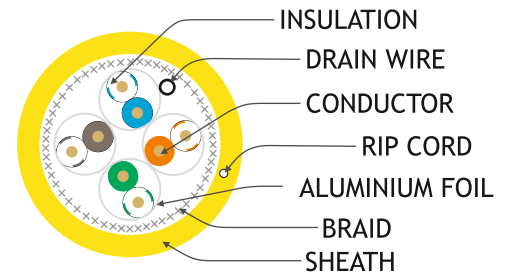
Category 7A cabling

S/FTP LSZH coating

01



ULTRA 7A 1200MHZ



Cable 1200 MHz LSZH sheath S/FTP Category 7_A

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.

Electrical and constructional parameters:

Parameter:		
Impedance 10 to 1000 MHz (Ohm)		100±5
Nominal velocity of propagation NVP (% speed of light)		78
Attenuation:		
	Value for:	
	-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
DC resistance in C.C (Ωm/k)		164
Diameter (mm)		8,1
Weight (kg/km)		66
Flame resistance		NFC 32070 C2
Temperature while operation (°C)		-40/+70

Construction:

- Conductor: 23 AWG (0,574 mm)
- Insulation: SFS-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 i 100 Gigabit Ethernet

Norms:

- LSZH: EN 61034, EN 50267-2-1
- EN 60332-1, EN 60332-3-24
- ISO/IEC 11801, EN 50173
- IEC 61156-5

Cable marking:

Below information is printed on each meter of the cable:

- Supplier: FIBRAIN DATA
- Cable Type: S/FTP 4PR 23AWG CAT.7_A 1200MHZ
- Jacket type: LSZH
- Norms: IEC 61156-5 ISO/IEC 11801 EN 50173
- Year of production: XXXX
- ID number: XXXXXX
- Length marking in meters



Frequency MHz:	Attenuation Max		NEXT		PS-NEXT		ACR-F		PS-ACR-F		Return Loss	
	dB/100m				Typical Value Cat. 7A							
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	23,0	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

XUA100.146 FIBRAIN DATA UltraA S/FTP Kat.7A 1200 MHz drum 500 m LSZH jacket yellow colour

XUA100.147 drum 1000 m