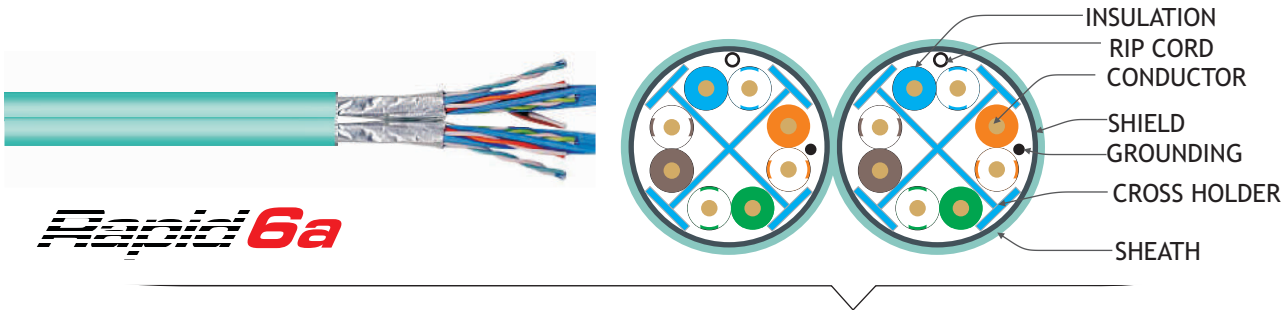


Category 6A cabling
F/UTP DUPLEX LSZH coating

01



Cable 500 MHz DUPLEX LSZH sheath
F/UTP Category 6A

Structural Cabling FIBRAIN DATA Rapid Series, fully satisfies the requirements of cat. 6A (class EA) in accordance with standards ISO/IEC 11801 2nd Ed. Am. 1, ANSI/TIA/EIA 568-B-2.1 as well as EN 50173-1: 2002 Am.1. Moreover all components of the transmission line complete ROHS 2002/95/WE Directive.

Electrical and constructional parameters:		
Parameter:		
Impedance od 10 to 500 MHz (Ohm)	100±5	
Nominal velocity of propagation NVP (% speed of light)	72	
Attenuation:		
	Value for:	
	-30 - 100 MHz	>55 dB
	100 - 1000 MHz	55-20log(f/100)
Delay skew (max) (ns/100 m)	<25	
Dielectric strength during 1 minute (V c.c.)	1500	
Insulation strength (MOhm/km)	>5000	
Nominal/maximum operating voltage (V)	125/200	
Maximum operating current (A)	0,25	
DC resistance in C.C (Ohm/k)	164	
Diameter (mm)	7,1x15,1	
Weight (kg/km)	100	
Flame resistance	NFC 32070 C2	
Temperature while installation (°C)	-5/+50	
Temperature while operation (°C)	-20/+60	

Construction:

- Conductor – 24AWG (0,51 mm)
- Insulation: polyolefine
- Number of wires: 4 pairs twisted together
- Turquoise jacket LSZH according to IEC 60322-1
- Shield: aluminum foil/polyester around all pairs
- Grounding: cooper, galvanized wire drainage ϕ 0,4 mm

Application

- Supports full and half duplex application
- Digital and analogue video transmission
- 100 Mbps TP-PMOD
- 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)

Norms:

- IEC 60332-1, UNE-EN 50265-2-1
- LSZH: UNE-EN 50268-1
- UNE-EN 50267-2-1, UNE-EN 50266-2-4
- ANSI/TIA/EIA568-B-2.1 (Cat. 6A)
- ISO/IEC 11801 : 2002, EN 50173 : 2002

Cable marking:

Below information is printed on each meter of the cable:

- Supplier: FIBRAIN DATA
- Cable Type: 2xF/UTP 8PR24AWG CAT.6A 500 MHz
- Jacket type: LSZH
- Norms: IEC 61156–5 ISO/IEC 11801 EN 50173
- Year of production: XXXX
- ID number: XXXX
- Length marking in meters



Frequency Mhz:	Attenuation Max dB/100 m:	NEXT	PS-NEXT	ACR-F	PS-ACR-F	Return Loss
dB/100 m(min):						
1	2	75,3	72,3	68,0	65,0	20,0
10	5,9	60,3	57,3	48,0	45,0	25,0
16	7,4	57,3	54,2	43,9	40,9	25,0
31,25	10,4	52,9	49,9	38,1	35,1	23,6
62,5	14,8	48,4	45,4	32,1	29,1	21,5
100	19,0	45,3	42,3	28,0	25,0	20,1
155	24,0	42,4	39,4	24,2	21,2	18,8
250	31,0	39,3	36,3	20,0	17,0	17,3
300	34,2	38,1	35,1	18,5	15,5	16,8
500	50,1	34,8	32,8	14,0	11,0	15,2

XR 102.117 FIBRAIN DATA Rapid 2xF/UTP Cat. 6A 500 MHz drum 1000 m jacket LSZH turquoise colour