



LAN U/FTP CAT. 6A LSZH SHEATH Euroclass B2ca,s1a,d1,a1

GENERAL FEATURES

Shielded cat.6A data cable for telecommunications, with 4 twisted pairs 100 Ohm, red copper conductors section 23 AWG and polyolefin insulation suitable for structured cabling for analogue and digital transmission of voice and data signals in Ea class.

TECHNICAL FEATURES

Applications:

ETHERNET, TP-DDI, 1000BASE TX, 1000BASET, 10GBASET, ATM(TP)

Reference specifications:

CEI 20-37-4-5, CEI 20-52, CEI 20-35 (IEC 60322-1), CEIEN 50267-2-1, CEIEN 50267-2-2, EN 50173, EN 50288-6/1, EN 55022, EN 50081, EN 50082, IEC61034/2, IEC 60754-1-1, IEC60754-2, IEC61156, TIA/EIA-568-A5/B2, ISO/IEC-11801, ISO/IEC TR24750, ANSI/TIA/EIA TSB 155

Connection system:

EIA/TIA 568 A e B

Installation:

EN 50174

Directive:

RoHS 2002/95/EC

CONSTRUCIONAL FEATURES

Conductor material:

Rigid red copper - nominal section AWG 23/1 or 0.56 mm².

Single conductor insulation:

Polyolefin Ø 1,12 mm

Colours :

Blue - White /Blue, Orange -White /Orange, Green - White/Green, Brown - White/Brown

Shield:

AL/PES sheet for single pairs

Outer Sheath:

LSZH - Sheath Ø: 7,4 mm - Cable weight: 45 kg/km

Outer sheath colour:

Violet





ELECTRICAL SPECIFICATIONS

Impedance:	100 + 15 (Ω)
Nominal mutual capacitance:	45 pF/m
Max. loop resistance (at 20° C):	16,4 Ω /100 m
Max. tensile load:	70 N/mm ²
Rel. propagation velocity	68%
Insulation resistance:	5 G Ω x km

MECHANICAL SPECIFICATIONS

Operating temperature: -15 °C ÷ +70 °C
Installation temperature: -5 °C ÷ +50 °C
Minimum bend radius: 60 mm

CODE TABLE

Code	Description	Version	Shield	Sheath	Sheath \varnothing	Package
RFL6A.0500B2CA	4 pairs AWG 23/1	U/FTP	AL/PES tape for single pair	LSZH	7,4 mm	500 mt drum

TRANSMISSION SPECIFICATIONS

Frequency (MHz)	RL \geq dB	ATT. \leq dB	Next \geq dB	PHASE DELAY \leq dB	PSNEXT \geq dB	ELFEXT \geq dB	PSELFEXT \geq dB
1	20.0	0	74.3	570.00	72.3	68.0	65.0
4	23.0	3.8	65.3	552.00	63.3	56.0	53.0
8	24.5	5.3	60.8	546.73	58.8	49.9	46.9
10	25.0	5.9	59.3	545.38	57.3	48.0	45.0
16	25.0	7.5	56.2	543.00	54.2	43.9	40.9
20	25.0	8.4	54.8	542.05	52.8	42.0	39.0
25	24.3	9.4	53.3	541.20	51.3	40.0	37.0
31.25	23.6	10.5	51.9	540.44	49.9	38.1	35.1
62.5	21.5	15.0	47.7	538.55	45.4	32.1	29.1
100	20.1	19.1	44.3	537.60	42.3	28.0	25.0
200	18.0	27.6	39.8	536.54	37.8	22.0	19.0
250	17.3	31.1	38.3	536.27	36.3	20.0	17.0
300	16.8	34.3	37.1	536.10	35.1	18.5	15.5
500	15.2	45.3	33.8	355.60	31.8	14.0	11.0

