



ITEM

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TECHNICAL DATA SHEET – CABLE CONSTRUCTION

LAN U/UTP AWG23/1 CAT. 6 LSZH SHEATH Euroclass RUL6.0305B2CA

GENERAL FEATURES

Data cables for telecommunications cat.6 4 with twisted pairs 100 Ohm, red copper conductors section 24 AWG and polyolefin insulation suitable for the realisation of structured cabling for analogue and digital transmission of voice and data signals in E class.

CPR certification - European regulation (EU/305/2011) - in class **B2ca** as indicated in the declaration of performance "DoP" ref. n° **I1701990013**

TECHNICAL FEATURES

Applications:

ETHERNET, TP-DDI, 1000BASE TX, 1000BASE T, 10GBASE T, 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
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 24/1 o 0,51 mm²

Single conductor insulation:

Polyolefin Ø 0,98 mm

Colours :

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

Outer Sheath:

LSZH

Sheath Ø6,1 mm

Cable weight: 40 kg/km

Sheath colour:

Ivory (RAL 9001)



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ELECTRICAL SPECIFICATIONS

Impedance:	100 + 15 (Ω)
Nominal mutual capacitance:	48 pF/m a 1kHz
Max. loop resistance (at 20° C):	16,8 Ω /100 m
Max. tensile load:	15 kg
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: 48 mm

CODE TABLE

Code	Description	Version	Shield	Sheath	Sheath $\varnothing$	Package
RUL6.0305B2CA	4 pairs AWG 24/1	U/UTP	absent	LSZH	6,5 mm	305 mt box

TRANSMISSION SPECIFICATIONS

Frequency (MHz)	RL >= dB	ATT. <= dB	Next >= dB	PHASE DELAY <= dB	PSNEXT >= dB	ELFEXT >= dB	PSELFEXT >= dB
1	20.0	2.03	74.3	570.00	72.3	67.8	64.8
4	23.0	3.78	65.3	552.00	63.3	55.8	52.8
8	24.5	5.32	60.8	546.73	58.8	49.7	46.7
10	25.0	5.95	59.3	545.38	57.3	47.8	44.8
16	25.0	7.55	56.2	543.00	54.2	43.7	40.7
20	25.0	8.47	54.8	542.05	52.8	41.8	38.8
25	24.3	9.51	53.3	541.20	51.3	39.8	36.8
31.25	23.6	10.67	51.9	540.44	49.9	37.9	34.9
62.5	21.5	15.38	47.7	538.55	45.4	31.9	28.9
100	20.1	19.80	44.3	537.60	42.3	27.8	24.8
200	18.0	28.98	39.8	536.54	37.8	21.8	18.8
250	17.3	32.85	38.3	536.27	36.3	19.8	16.8



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