



ITEM

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D.S. n°
061e.pe.rev00

TECHNICAL DATA SHEET – CABLE CONSTRUCTION

LAN U/UTP AWG24/1 CAT. 5E PE SHEATH

GENERAL FEATURES

Data cables for telecommunications cat.5e with 4 twisted pairs 100 Ohm with 24 AWG section red copper conductors and polyolefin insulation suitable for the realisation of structured cabling for analogue and digital transmission of voice and data signals in D class.

CPR certification - European regulation (EU/305/2011) - in class Fca as indicated in the declaration of performance "DoP" ref. n° I1702000009

TECHNICAL FEATURES

Applications:

ETHERNET, TP-DDI, 1000BASE TX, 1000BASE 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 Ed.2, EN 50288-2/3, EN 55022, EN 50081, EN 50082, IEC61034/2, IEC 60754-1-1, IEC60754-2, IEC61156, TIA/EIA-568-A5/B2
ISO/IEC-11801 Ed. 2

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 1,03 mm

Colours :

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

Outer sheath:

HDPE

Sheath Ø 4,9 mm

Cable weight: 36 kg/km

Sheath colour:

Black



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ELECTRICAL SPECIFICATIONS

Impedance : 100 + 15(Ω)
Nominal mutual capacitance: 49 pF/m
Max. loop resistance (at 20° C): 16,8 Ω /100 m
Max. tensile load: 20 kg
Rel. propagation velocity: 68%
Insulation resistance: 2 G Ω x km

MECHANICAL SPECIFICATIONS

Operating temperature: -15 °C ÷ +70 °C
Installation temperature: -5 °C ÷ +50 °C
Minimum bend radius: 52 mm

CODE TABLE

Code	Description	Version	Shield	Sheath	Sheath $\varnothing$	Package
RUE5.500	4 pairs AWG 24/1	U/UTP	Absent	PE	4,9 mm	500 m drum

TRANSMISSION SPECIFICATIONS

Frequency (MHz)	RL ≥ dB	ATT. ≤ dB	Next ≤ dB	PHASE DELAY ≤ dB	PSNEXT ≥ dB	ELFEXT ≥ dB	PSELFEXT ≥ dB
1	20.0	-	65.3	570.00	62.3	63.8	60.8
4	23.0	4.1	56.3	552.00	53.3	51.8	48.8
8	24.5	5.8	51.8	546.73	48.8	45.7	42.7
10	25.0	6.5	50.3	545.38	47.3	43.8	40.8
16	25.0	8.2	47.2	543.00	44.4	39.7	36.7
20	25.0	9.3	45.8	542.05	42.8	37.8	34.8
25	24.3	10.4	44.3	541.20	41.3	35.8	32.8
31.25	23.6	11.7	42.9	540.44	39.9	33.9	30.9
62.5	21.5	17.0	38.5	538.55	35.4	27.9	24.9
100	20.1	22.0	35.3	537.6	32.3	23.8	20.8



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