

Description

Local Area Network Cable

Cat. 5e U/UTP 4x2xAWG24 PVC

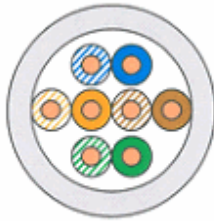
Coaxial Cables

CAVEL

since 1968

Data Sheet

LAN_540



0,51 (Cu) 0,90 (PE) 5,10 (PVC)

Construction data

4x2xAWG24 pairs of bare copper wires (Cu) 0,51 mm
 Insulation of solid Polyethylene (PE) 0,90 mm

Composition	Sheath Colour	Lay length of pairs [mm]
	white/blu - blu	13,00
	white/green - green	16,80
	white/orange - orange	21,00
	white/brown - brown	24,70

Outer sheath of Polyvinylchloride - white (PVC) (PVC) 5,10 mm

Printed each meter by blue ink-jet :

CAVEL LAN 540 MADE IN ITALY ss/aa U/UTP 4x2xAWG24 - CATEGORY 5E ISO-IEC 11801 EN50173 CEI-UNEL 36762 C-4 (U0 =400V) - m

(ss=week, aa=year) (m=meter marking)

Electrical data

Characteristic impedance 1 - 100 MHz 100 ± 15 Ohm
 Capacitance of Twisted Pair (@800Hz) 48 pF/m
 Velocity Ratio 67 %
 Conductor resistance @ 20°C 95 Ohm/km
 Loop resistance 190 Ohm/km
 Insulation resistance > 2.000 MOhm x km
 Test voltage (DC, 1 min) 1 kV
 Coupling Attenuation 30 - 100 MHz > 45 dB

ITALIANA CONDUTTORI s.r.l.

Viale Zanotti 90 I - 27027 Gropello Cairoli
 Tel +39-382.815150 Fax +39-0382.814212

Date

03/10/2013

Responsible

Alberto Scardovi

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Frequency [MHz]	Attenuation [dB/100m]	SRL [dB]	NEXT [dB/100m]	ACR [dB]	FEXT [dB]
1	1,90	20,00	71,00	69,10	80,00
10	6,00	25,00	56,00	50,00	62,00
20	8,50	25,00	51,00	42,50	58,00
31,2	10,70	24,00	49,00	38,30	56,00
62,5	15,70	22,00	44,00	28,30	50,00
100	19,80	20,00	41,00	21,20	48,00
155,5	24,20		38,00	13,80	
200	27,50		36,00	8,50	
250	29,20		35,00	5,80	
300	32,00		34,00	2,00	

Mechanical data

Weight of copper conductors	14,60	kg/km		
Total weight of cable	30,51	kg/km		
Minimum bending radius (installation/operation)	40/20	mm		
Maximum pulling strength during the installation	100	N		
Working temperature	-20 / +60	°C		
Lay out temperature	0 / +50	°C		
Fire Load	398	MJ/km	111	kWh/km

Standards

IEC 60332-1
 EIA-TIA 568A
 ISO/IEC 11801/2° ed.; IEC 61156-5
 EN50173; EN50288-3-1

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