

Description

Local Area Network Cable

Cat. 5e U/UTP 4x2xAWG24/1 PE

Coaxial Cables

CAVEL®

since 1968

Data Sheet**LAN540PEB****Class CPR acc. to UE 305/2011 (DoP)**

Fca

The cable can be used in the field of application of the Construction Product Regulation (DoP) UE nr. 305/ 2011 for the class of performance specified on the related product label.

Standards

ISO/IEC 11801 Class D

EN50288-3-1

EN50173

IEC 61156

EIA-TIA 568

CEI-UNEL 36762

Reaction to Fire

EN50575

Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T

IEEE 802.5 16 MB: ISDN; TPDDI; ATM

Power over Ethernet (PoE)/PoE+

Construction data

4 pairs with conductor of bare copper wires	(Cu)	Ø 0,51	mm
Insulation of solid Polyethylene	(PE)	Ø 0,90	mm
Polyester tape longitudinally overlapped	(Pet)		

Composition

Twisted pairs, coloured by Standard TIA-568A

Outer sheath of Polyethylene - white	(PE)	Ø 5,10	mm
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Printed each meter by yellow ink-jet :

CAVEL LAN 540 PE B MADE IN ITALY CAT 5E U/UTP 4x2xAWG24 Euroclass Fca ISO-IEC 11801 EN50173
CEI-UNEL 36762 C-4 (U0 = 400V) - m

(m=meter marking)

Physical data

Weight of copper conductors	14,32	kg/km
Total weight of cable	27,00	kg/km
Minimum bending radius x1/n	20/40	mm
Maximum tensile strength during the installation	100	N
Installation temperature	0 / +50	°C
Operating temperature	-20 / +60	°C

Electrical data

Characteristic impedance	100 MHz	100 ± 5	Ohm
Capacitance of Twisted Pair (@800Hz)		48	pF/m

ITALIANA CONDUTTORI s.r.l.

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Date

09/11/2020

Responsible

A. Bergaglio

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Velocity Ratio	67 %	
DC Conductor Resistance	95	Ohm/km
Loop resistance	190	Ohm/km
Insulation resistance	> 2000	MOhm/km
Sheath Insulation Voltage (DC, 1 min)	1	kV
Coupling Attenuation	> 45	dB

Transmission-Characteristic (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	RL [dB]	NEXT [dB]	ACR-N [dB/100m]
1	1,90	20,00	71,00	69,10
10	6,00	25,00	56,00	50,00
20	8,50	25,00	51,00	42,50
31,2	10,70	24,00	49,00	38,30
62,5	15,70	22,00	44,00	28,30
100	19,80	20,00	41,00	21,20

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