

Description

Local Area Network Cable

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

Coaxial Cables

CAVEL®

since 1968

Data Sheet

LAN540PE

Ø	0,51	0,90		5,10
	(Cu)	(PE)	(Pet)	(PE)

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

EN 50288-3-1

EN 50173

EIA-TIA 568

CEI-UNEL 36762

Reaction to Fire

EN50575

Application

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

IPTV; HbbTV 2.0.n

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

IEEE 802.5 16 MB: ISDN; TPDDI; ATM; PoE

Exterior and Underground Installation

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 - black (RAL 9011)	(PE)	Ø 5,10	mm
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Printed each meter by yellow ink-jet :

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

(gggaan=batch number m=meter marking)

ITALIANA CONDUTTORI s.r.l.

Viale Zanotti 90 I - 27027 Gropello Cairoli

Tel +39-382.815150 Fax +39-0382.814212

Date

17/07/2023

Responsible

A. Bergaglio

Description

Local Area Network Cable

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

**Data Sheet****LAN540PE****Physical data**

Weight of copper conductors	14,32	kg/km
Total weight of cable	27,10	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	-40 / +80	°C

Electrical data

Characteristic impedance	100 MHz	100 ± 5	Ohm
Capacitance of Twisted Pair (@800Hz)		48	pF/m
Velocity Ratio		67 %	
DC Conductor Resistance		95	Ohm/km
Loop resistance		190	Ohm/km
Insulation resistance		> 5000	MOhm x 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]	ACR-F [dB]
1	1,90	20,00	71,00	69,10	75,00
10	6,00	25,00	56,00	50,00	55,00
20	8,50	25,00	51,00	42,50	50,00
31,2	10,70	24,00	49,00	38,30	47,00
62,5	15,70	22,00	44,00	28,30	40,00
100	19,80	20,00	41,00	21,20	40,00

Connectors

KJ540AB	Socket RJ45 UTP, Cat.5e toolless black, Socket RJ45
KJ540AN	Socket RJ45 UTP, Cat.5e toolless black, Socket RJ45
PLUG5U	Plug RJ45, Plug RJ45 UTP Cat. 5e, Plug RJ45 -
PPU5-24PN	Patch panel, ?Pannello precaricato Cat. 5e UTP 19" 24 Porte sis, Patch panel UTP -
PU-24PN	Patch panel, ?Pannello 19" 24 Porte Vuoto per RJ45 UTP 1 HE con, Patch panel UTP -

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