

Description

Local Area Network Cable

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



Data Sheet

LAN540ZH



Ø	0,51	0,90	5,10
	(Cu)	(PE)	(LSZH)

Class CPR acc. to UE 305/2011 (DoP)

Eca

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

Indoor + Outdoor 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

Composition

Twisted pairs, coloured by Standard TIA-568A

Outer sheath of Thermoplastic material - grey (RAL 7001) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 5,10	mm
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Printed each meter by blue ink-jet :

CAVEL LAN 540 ZH MADE IN ITALY CAT 5E U/UTP 4x2xAWG24 - Euroclass Eca 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

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LAN540ZH**Physical data**

Weight of copper conductors	14,32	kg/km
Total weight of cable	31,10	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	-20 / +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
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 -

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