

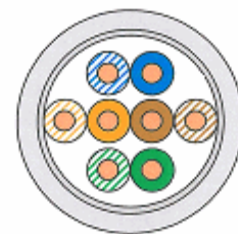
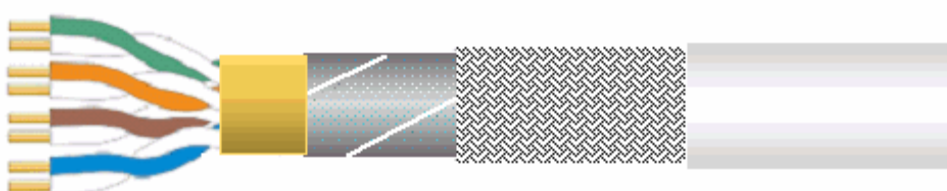
Description

Local Area Network Cable

Cat. 5e SF/UTP 4x2xAWG24/1 PVC



Data Sheet

LAN542

Ø	0,51	1,00	4,80	5,28	6,50
	(PE)	(Pet)	(Al/Pet)	(CuSn)	(PVC)

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 50288-2-1	EN 50173	EIA-TIA 568
CEI-UNEL 36762			

Reaction to Fire

CEI-UNEL 36762	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; PoE

Power over Ethernet (PoE)/PoE+

Indoor Installation

Construction data

4 pairs with conductor of bare copper wires	(Cu)	Ø 0,51	mm
Insulation of solid Polyethylene	(PE)	Ø 1,00	mm
Polyester film spirally wrapped	(Pet)		

Composition

Twisted pairs, coloured by Standard TIA-568A

Braid of tinned copper wires	(CuSn)		
Braid Optical Coverage		61	%
Aluminum/Polyester tape spirally wound	(Al/Pet)		
Diameter over Tape		4,80	mm
Outer sheath of Polyvinylchloride - white - lead-free	(PVC)	Ø 6,50 ± 0,20	mm
Printed each meter by blue ink-jet :			

CAVEL LAN 542 MADE IN ITALY CAT 5E SF/UTP 4x2xAWG24 Euroclass Eca ISO-IEC 11801 EN50173**CEI-UNEL 36762 C-4 (U0 = 400V) gggaan m**

(ggg=day)(aa=year)(n=batch) (m=meter marking)

ITALIANA CONDUTTORI s.r.l.

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

Date

02/11/2023

Responsible

A. Bergaglio

Description				Data Sheet
Local Area Network Cable				LAN542
Cat. 5e SF/UTP 4x2xAWG24/1 PVC				
Physical data				
Weight of copper conductors		24,18	kg/km	
Total weight of cable		51,80	kg/km	
Minimum bending radius x1/n		25/50	mm	
Maximum tensile strength during the installation		100	N	
Installation temperature		0 / +50	°C	
Operating temperature		-20 / +70	°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		> 50	dB	
Screening Attenuation (SA)		Transfer Impedance (Zt)		
30 - 100 MHz	> 85 dB	1 MHz	< 6 mOhm/m	
		10 MHz	< 1,5 mOhm/m	
		30 MHz	< 1 mOhm/m	
		100 MHz	< 1 mOhm/m	
Transmission-Characteristic (at 20°C)				
Frequency	Attenuation	RL	NEXT	ACR-N
[MHz]	[dB/100m]	[dB]	[dB]	[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
Connectors				
KJ541AA	Socket RJ45 FTP, Cat.6 toolless Alu, Socket RJ45			
PLUG5F	Plug RJ45, Plug RJ45 FTP Cat. 5e, Plug RJ45 -			
ITALIANA CONDUTTORI s.r.l.			Date	Responsible
Viale Zanotti 90 I - 27027 Gropello Cairoli			02/11/2023	A. Bergaglio
Tel +39-382.815150 Fax +39-0382.814212				