

**Description**

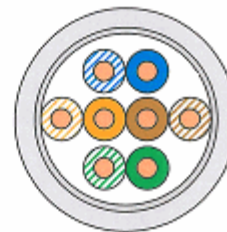
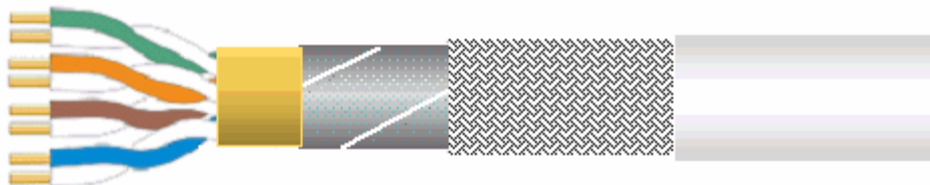
Local Area Network Cable

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



Data Sheet

**LAN542**



Ø	0,51	1,00		4,78	6,50
	(PE)	(Pet)	(Al/Pet)	(CuSn)	(PVC)

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

**E<sub>ca</sub>**

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**

EIA-TIA 568-B-2	ISO/IEC 11801	IEC 61156-5	EN 50173
EN 50288-2-1			

**Fire-Resistance Rating**

IEC 60332-1	EN50575
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**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 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	%
Alluminio/Polyester tape spirally wound	(Al/Pet)	23 x 30/19	mm/µm
Outer sheath of Polyvinylchloride - white (PVC) - lead-free	(PVC)	Ø 6,50	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

**30/05/2017**

Responsible

**Alberto Scardovi**

## Description

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LAN542

## Physical data

Weight of copper conductors	24,18	kg/km
Total weight of cable	50,13	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 / +60	°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		> 2000	MOhm/km
Sheath Insulation Voltage (DC, 1 min)		1	kV
Coupling Attenuation		> 50	dB
Screening Attenuation (SA)			
30 - 100 MHz	> 85 dB		
100 - 1000 MHz	> 85 dB		
Shield Transfer Impedance (Zt)			
	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 [MHz]	Attenuation [dB/100m]	SRL [dB]	NEXT [dB]	ACR [dB]
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
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

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