

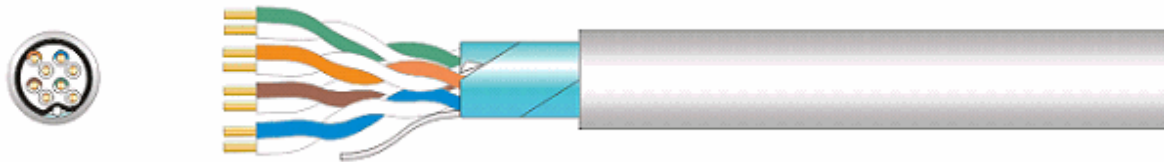
**Description**

Local Area Network Cable  
 Cat. 5e F/UTP 4x2xAWG24 PVC



**Data Sheet**

**LAN541**



0,51	1,00	6,00
(Cu)	(PE)	(PVC)

**Construction data**

4x2xAWG24 foil screened pairs of bare copper wires	(Cu)	0,51	mm
Insulation of solid Polyethylene	(PE)	1,00	mm

**Composition**

- white/blu - blu
- white/green - green
- white/orange - orange
- white/brown - brown

Alluminio/Polyester tape spirally wound	(Al/Pet)		
Drain wire of tinned copper	(CuSn)	0,40	mm
Outer sheath of Polyvinylchloride - white (PVC)	(PVC)		6,00 mm

Printed each meter by blue ink-jet :

**CAVEL LAN 541 PE MADE IN ITALY ss/aa F/UTP 4x2xAWG24 - CATEGORY 5E ISO-IEC 11801 EN50173  
 CEI-UNEL 36762 C-4 (U0 =400V) - m**

(ss=week , aaaa=year) (m=meter marking)

**Electrical data**

Characteristic impedance	1 - 100 MHz	100 ± 15	Ohm
Capacitance of Twisted Pair (@800Hz)		48	pF/m
Velocity Ratio		67 %	
Conductor resistance @ 20°C		95	Ohm/km
Loop resistance		190	Ohm/km
Insulation resistance		> 2.000	MOhm x km
Test voltage (DC, 1 min)		1	kV
Screening Attenuation (SA)		Transfer impedance	
30 - 100 MHz	> 40 dB	up to	1 MHz < 25 mOhm/m
		up to	10 MHz < 8 mOhm/m
		up to	30 MHz < 10 mOhm/m

**ITALIANA CONDUTTORI s.r.l.**

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 Tel +39-382.815150 Fax +39-0382.814212

**Date**

**04/10/2013**

**Responsible**

**Giuseppe Guastella**

## Description

Local Area Network Cable

Cat. 5e F/UTP 4x2xAWG24 PVC

Coaxial Cables

**CAVEL**<sup>®</sup>

since 1968

## Data Sheet

**LAN541**

Frequency [MHz]	Attenuation [dB/100m]	SRL [dB]	NEXT [dB/100m]	ACR [dB]	FEXT [dB]
1	1,90	20,00	71,00	69,10	80,00
10	6,00	25,00	56,00	50,00	62,00
20	8,50	25,00	51,00	42,50	58,00
31,2	10,70	24,00	49,00	38,30	56,00
62,5	15,70	22,00	44,00	28,30	50,00
100	19,80	20,00	41,00	21,20	48,00
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	

**Mechanical data**

Weight of copper conductors	15,72	kg/km
Total weight of cable	35,45	kg/km
Minimum bending radius (installation/operation)	50/25	mm
Maximum pulling strength during the installation	100	N
Working temperature	-20 / +60	°C
Lay out temperature	0 / +50	°C

**Standards**

IEC 60332-1  
 EIA-TIA 568B.2  
 ISO/IEC 11801; IEC 61156-5  
 EN50173; EN50288-2-1

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