

Description

Local Area Network Cable

Cat. 5e F/UTP 4x2xAWG24 PVC

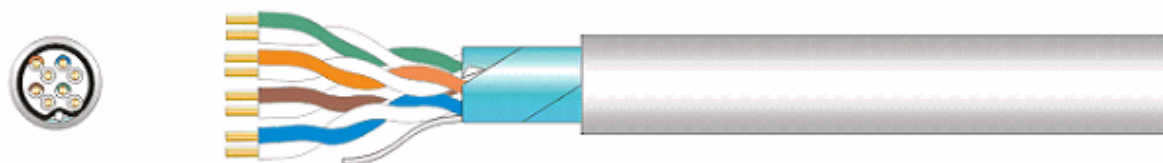
Coaxial Cables

CAVEL®

since 1968

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)

30 - 100 MHz

> 40 dB

Transfer impedance

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.

Viale Zanotti 90 I - 27027 Gropello Cairoli

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Date

04/10/2013

Responsible

Giuseppe Guastella

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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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