

Description

Local Area Network Cable

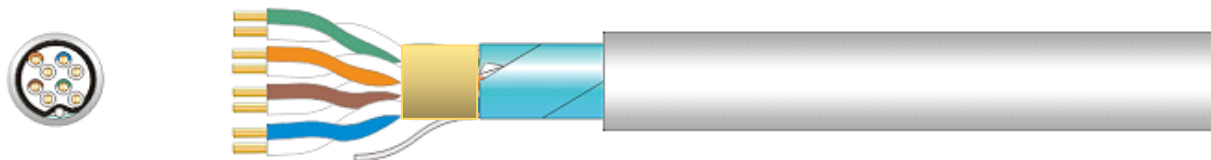
Cat. 5e F/UTP 4x2xAWG24/1 PVC

Coaxial Cables

CAVEL®

since 1968

Data Sheet

LAN541

Ø	0,51	1,00		6,20
	(Cu)	(PE)	(Pet)	(Al/Pet)

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

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 Installation

Construction data

4 foil screened pairs with conductor of bare copper	(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

Drain wire of tinned copper			
Aluminum/Polyester tape spirally wound	(Al/Pet)		
Outer sheath of Polyvinylchloride - white	(PVC)	Ø 6,20	mm
Printed each meter by blue ink-jet :			

CAVEL LAN 541 MADE IN ITALY CAT 5E F/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

Description		Coaxial Cables CAVEL® since 1968		Data Sheet	
Local Area Network Cable				LAN541	
Cat. 5e F/UTP 4x2xAWG24/1 PVC					
Physical data					
Weight of copper conductors		15,60	kg/km		
Total weight of cable		39,70	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			> 45	dB	
Screening Attenuation (SA)		Transfer Impedance (Zt)			
30 - 100 MHz		> 50 dB	1 MHz	< 22 mOhm/m	
			10 MHz	< 10 mOhm/m	
			30 MHz	< 26 mOhm/m	
Transmission-Characteristic (at 20°C)					
Frequency	Attenuation	RL	NEXT	ACR-N	ACR-F
[MHz]	[dB/100m]	[dB]	[dB]	[dB/100m]	[dB]
1	1,90	25,00	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					
KJ541AA	Socket RJ45 FTP, Cat.6 toolless Alu, Socket RJ45				
PF-24PN	Patch panel, ?Pannello 19" 24 Porte Vuoto per RJ45 FTP 1 HE con, Patch panel UTP -				
PLUG5F	Plug RJ45, Plug RJ45 FTP Cat. 5e, Plug RJ45 -				
PPF5-24PN	Patch panel, ?Pannello precaricato Cat. 5e FTP 19" 24 porte sis, Patch panel UTP -				
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