

## Description

Flexible Local Area Network Patch Cable

Cat. 5e F/UTP 4x2xAWG26/7

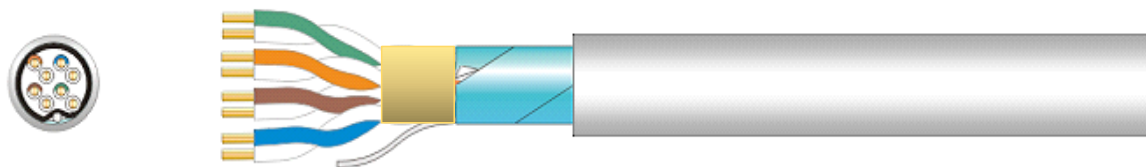
Coaxial Cables

CAVEL®

since 1968

Data Sheet

LANF541



Ø	0,48			6,00
	(Cu)	(PET)	(Al/Pet)	(PVC)

## Standards

EN50288-2-2	EN50173	ISO/IEC 11801	IEC 61156
EIA-TIA 568	CEI-UNEL 36762		

## Reaction to Fire

EN50575

## Application

Work area, patch cord cable

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T

IEEE 802.5 16 MB: ISDN; TPDDI; ATM

## Construction data

4 Paires with conductor of bare copper strand	(Cu)	7x0,16	Ø 0,48	mm
Insulation of solid Polyethylene	(PE)		Ø 0,90	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) (PVC) Ø 6,00 mm

Printed each meter by blue ink-jet :

**CAVEL LANF541 MADE IN ITALY CAT 5E F/UTP 4x2xAWG26/7 ISO-IEC 11801 EN50173 CEI-UNEL 36762****C-4 (U0 =400V) gggaan - m**

(gggaan=batch number m=meter marking)

## Physical data

Weight of copper conductors	12,10	kg/km
Total weight of cable	34,30	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
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## ITALIANA CONDUTTORI s.r.l.

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

Date

11/11/2020

Responsible

A. Bergaglio

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Capacitance of Twisted Pair (@800Hz)	48	pF/m
Velocity Ratio	67 %	
DC Conductor Resistance	130	Ohm/km
Loop resistance	260	Ohm/km
Insulation resistance	> 2000	mOhm/km
Sheath Insulation Voltage (DC, 1 min)	1	kV
Coupling Attenuation	> 45	dB

## Screening Attenuation (SA)

30 - 100 MHz	> 50 dB
100 - 1000 MHz	> 40 dB

## Transfer Impedance (Zt)

1 MHz	< 22 mOhm/m
10 MHz	< 10 mOhm/m
30 MHz	< 26 mOhm/m

**Transmission-Characteristic (at 20°C)**

Frequency [MHz]	Attenuation [dB/10m]	RL [dB]	NEXT [dB]	ACR-N [dB/100m]
1	0,30	20,00	71,00	68,00
10	0,90	25,00	56,00	47,00
20	1,30	25,00	51,00	38,00
31,2	1,60	24,00	49,00	33,00
62,5	2,40	23,00	44,00	20,00
100	3,00	22,00	41,00	11,00

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