

**Description**

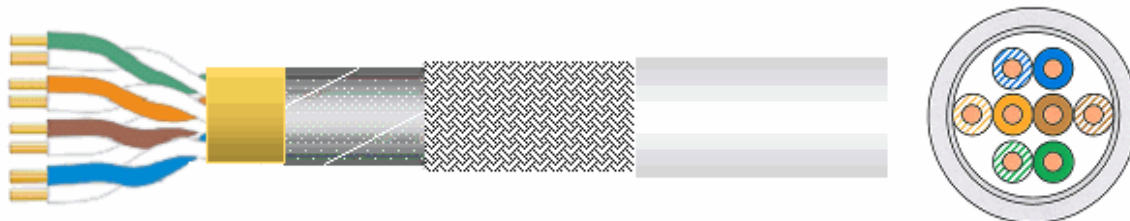
Flexible Local Area Network Patch Cable

Cat. 5e SF/UTP 4x2xAWG26/7



**Data Sheet**

**LANF542**



Ø 0,48	7x0,16	0,90	4,10	5,20	6,30
(Cu)	(PE)	(PET)	(Al/Pet)	(CuSn)	(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 pairs with conductor of tinned copper strand	(CuSn)	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

Braid of tinned copper wires	(CuSn)			
Braid Optical Coverage			80	%
Aluminum/Polyester tape spirally wound	(Al/Pet)			
Outer sheath of Polyvinylchloride - white (PVC) - lead-free	(PVC)		Ø 6,30	mm

Printed each meter by blue ink-jet :

**CAVEL LANF 542 MADE IN ITALY CAT 5E SF/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	21,40	kg/km
Total weight of cable	48,70	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 / +60	°C

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

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Tel +39-382.815150 Fax +39-0382.814212

**Date**

11/11/2020

**Responsible**

A. Bergaglio

## Description

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## Data Sheet

LANF542

## Electrical data

Characteristic impedance	100 MHz	100 ± 5	Ohm
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		> 50	dB

## Screening Attenuation (SA)

30 - 100 MHz	> 85 dB
100 - 1000 MHz	> 85 dB

## 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/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	22,00	44,00	20,00
100	3,00	22,00	41,00	11,00

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