

**Description**

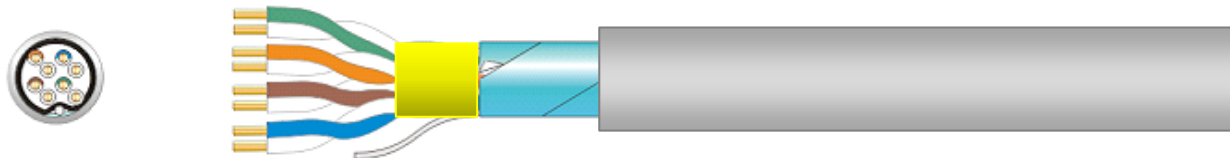
Flexible Local Area Network Patch Cable

Cat. 5e F/UTP 4x2xAWG26/7 LSZH



Data Sheet

**LANF541ZH**



Ø (mm)	0,48-7x0,16	0,90		6,00
	(Cu)	(PE)	(PET)	(Al/Pet)
				(LSZH)

**Standards**

EN50288-2-2	EN50173	EIA-TIA 568
CEI-UNEL 36762		

**Application**

- Work area, patch cord cable
- IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T
- IEEE 802.5 16 MB: ISDN; TPDDI; ATM; PoE
- Indoor + Outdoor Installation

**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 Thermoplastic material - grey (RAL 7001) - halogen-free, low smoke, flame retardant and UV-resistant (LSZH) Ø 6,00 mm
- Printed each meter by blue ink-jet :

**CAVEL LANF541ZH 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	37,10	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 / +80	°C

**Electrical data**

Characteristic impedance	100 MHz	100 ± 5	Ohm
Capacitance of Twisted Pair (@800Hz)		48	pF/m

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

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Tel +39-382.815150 Fax +39-0382.814212

Date

11/11/2020

Responsible

A. Bergaglio

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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
<b>Screening Attenuation (SA)</b>			
30 - 100 MHz	> 50 dB		
100 - 1000 MHz	> 40 dB		

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

Frequency [MHz]	Attenuation [dB/10m]	RL [dB]	NEXT [dB]	ACR-N [dB/100m]
1	0,32		65,30	62,10
10	0,95	25,00	50,30	40,80
20	1,36	25,00	45,80	32,20
31,2	1,71	23,60	42,90	25,80
62,5	2,48	21,50	38,40	13,60
100	3,20	20,10	35,30	3,30

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