

**Description**

Flexible Local Area Network Patch Cable

Cat. 6A U/FTP 4x2xAWG26/7



**Data Sheet**

**LANF6A43ZH**



Ø	0,48 - 7x0,16	1,30	5,85	7,60
	(Cu)	(PEE)	(AL/Pet)	(LSZH)

**Standards**

ISO/IEC 11801	IEC 61156	EN 50173-1	EIA-TIA 568
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**Reaction to Fire**

IEC 60332-1

**Application**

Work area, patch cord cable  
 IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-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 physical foam Polyethylene	(PEG)		Ø 1,30	mm
Al/Pet foil shielded pairs, PiMF mode	(Al/Pet)			

**Composition**

Twisted pairs, coloured by Standard TIA-568A

Drain wire of tinned copper  
 Outer sheath of Thermoplastic material - grey (RAL 7001) - (LSZH) Ø 7,60 mm  
 - halogen-free, low smoke, flame retardant and UV-resistant  
 Printed each meter by blue ink-jet :

**CAVEL LAN F 6A 43 ZH MADE IN ITALY CAT 6A U/FTP 4x2xAWG26/7 ISO-IEC 11801 EN50173-1  
 CEI-UNEL 36762 C-4 (U0 =400V) - metrica**

(ss=week, aa=year) (m=meter marking)

**Physical data**

Weight of copper conductors	11,92	kg/km
Total weight of cable	47,15	kg/km
Minimum bending radius x1/n	30/60	mm
Max.Tensile Strength	100	N
Installation temperature	0 / +50	°C
Operating temperature	-20 / +60	°C

**Electrical data**

Characteristic impedance	100 MHz	100 ± 5	Ohm
Capacitance of Twisted Pair (@800Hz)		43	pF/m

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

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 Tel +39-382.815150 Fax +39-0382.814212

**Date**

**27/05/2019**

**Responsible**

**Alberto Scardovi**

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Velocity Ratio	79 %	
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	> 70 dB
100 - 600 MHz	> 50 dB

**Transfer Impedance (Zt)**

1 MHz	< 11 mOhm/m
10 MHz	< 5 mOhm/m
30 MHz	< 3 mOhm/m
100 MHz	< 2,5 mOhm/m

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

Frequency [MHz]	Attenuation [dB/10m]	RL [dB]	NEXT [dB]	ACR-N [dB/100m]
1	0,30	25,00	90,00	87,00
10	0,90	25,00	90,00	81,00
20	1,30	25,00	85,00	72,00
31,25	1,60	25,00	85,00	69,00
62,5	2,40	25,00	80,00	56,00
100	3,00	25,00	80,00	50,00
155,5	3,60	20,00	80,00	44,00
200	4,10	20,00	75,00	34,00
250	4,40	20,00	75,00	31,00
300	4,80	20,00	75,00	27,00
500	6,40	20,00	70,00	6,00
600	7,00	20,00	70,00	0,00

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