

**Description**

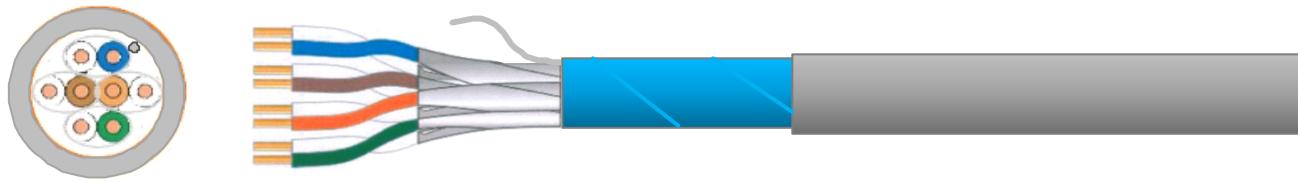
Local Area Network Cable

Cat. 6A F/FTP 4x2xAWG23/1 grey LSZH



Data Sheet

**LAN6A44ZH**



Ø	0,57	1,35			8,30
	(Cu)	(PEG)	(Al/Pet)	(Al/Pet)	(LSZH)

**Class CPR acc. to UE 305/2011 (DoP)**

Dca s1a,d2,a1

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 Ea	EN50288-10-1	EN50173	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; 10GBase-T  
 IEEE 802.5: ISDN; TPDDI; ATM; CATV; Broadband Video; PoE/PoE+  
 Indoor + Outdoor Installation

**Construction data**

4 pairs with conductor of bare copper wires	(Cu)	Ø 0,57	mm
Insulation of physical foam Polyethylene	(PEG)	Ø 1,35	mm
Al/Pet foil shielded pairs, PiMF mode	(Al/Pet)		

**Composition**

Twisted pairs, coloured by Standard TIA-568A

Drain wire of tinned copper			
Aluminum/Polyester reversed tape spirally wound	(Al/Pet)		
Outer sheath of Thermoplastic material - grey (RAL 7001) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 8,30	mm

Printed each meter by blue ink-jet :

**CAVEL LAN 6A 44 ZH MADE IN ITALY CAT 6A F/FTP 4x2xAWG23 - Euroclass Dca,s1a,d2,a1 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

14/07/2023

Responsible

A. Bergaglio

## Description

Local Area Network Cable

Cat. 6A F/FTP 4x2xAWG23/1 grey LSZH



## Data Sheet

LAN6A44ZH

## Physical data

Weight of copper conductors	19,80	kg/km
Total weight of cable	65,70	kg/km
Minimum bending radius x1/n	35/70	mm
Max.Tensile Strength	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)		43	pF/m
Velocity Ratio		77 %	
DC Conductor Resistance		73	Ohm/km
Loop resistance		146	Ohm/km
Insulation resistance		> 5000	MOhm x km
Sheath Insulation Voltage (DC, 1 min)		1	kV
Coupling Attenuation		> 45	dB

## Screening Attenuation (SA)

30 - 100 MHz	> 70 dB
100 - 500 MHz	> 60 dB

## Transfer Impedance (Zt)

1 MHz	< 11 mOhm/m
10 MHz	< 5 mOhm/m
30 MHz	< 3 mOhm/m

## Transmission-Characteristic (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	RL [dB]	NEXT [dB]	ACR-N [dB/100m]	ACR-F [dB]
1	2,10	25,00	90,00	87,90	95,00
4	3,60	25,00	90,00	86,40	95,00
10	5,40	25,00	90,00	84,60	95,00
20	7,70	25,00	85,00	77,30	90,00
31,25	9,60	25,00	85,00	75,40	90,00
62,5	13,70	25,00	80,00	66,30	85,00
100	17,40	25,00	80,00	62,60	85,00
155,5	21,90	25,00	80,00	58,10	80,00
250	28,10	25,00	75,00	46,90	80,00
500	40,00	25,00	70,00	30,00	80,00

## Connectors

<b>KJ6A41AA</b>	Socket RJ45 FTP, Cat.6A toolless Alu, Socket RJ45
<b>KJ6A7HQ</b>	Socket RJ45 S/FTP shielded, Cat.6A e 7 toolless Alu, Socket RJ45
<b>KJP6AF</b>	Socket RJ45 FTP, Coupling RJ45/RJ45 FTP Cat.6A gray, Socket RJ45
<b>PF-24PN</b>	Patch panel, ?Pannello 19" 24 Porte Vuoto per RJ45 FTP 1 HE con, Patch panel UTP -
<b>PLUG6AF</b>	Plug RJ45, Plug RJ45 Cat.6A shielded per conduttori solidi, Plug RJ45

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