

**Description**

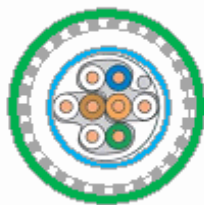
Local Area Network Cable

Cat. 6A F/FTP 4x2xAWG23/1 LSZH with rodent proof braid



**Data Sheet**

**LAN6A44ZHBROD**



Ø (mm)	0,57	1,35			8,30		11,30
	(Cu)	(PEG)	(Al/Pet)	(Al/Pet)	(LSZH)	(FeZn)	(LSZH)

**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)		

**Attached Data Sheet**

white - blu  
 white - green  
 white - orange  
 white - brown  
 Twisted pairs, coloured by Standard  
 TIA-568A

Drain wire of tinned copper		Ø 0,40	mm
Aluminum/Polyester reversed tape spirally wound	(Al/Pet)		
Inner sheath of Thermoplastic material - white - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 8,30 ± 0,10	mm
Sheath armor in Thermoplastic material - green (RAL 6018) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 11,30 ± 0,20	mm

Printed each meter by blue ink-jet :

**CAVEL LAN 6A 44 ZHB RODENT MADE IN ITALY CAT 6A F/FTP 4x2xAWG23 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**

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**Physical data**

Weight of copper conductors	19,80	kg/km
Total weight of cable	170,00	kg/km
Minimum bending radius x1/n	55/110	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
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

## Attenuation (at 20°C )

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
1	2,10	62,5	13,70
4	3,60	100	17,40
10	5,40	155,5	21,90
20	7,70	250	28,10
31,25	9,60	500	40,00

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