

Description

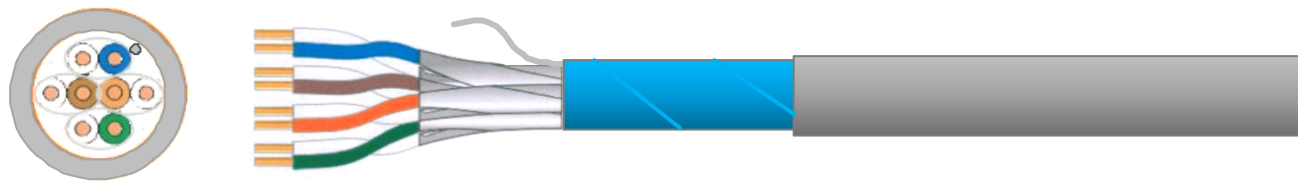
Local Area Network Cable

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.

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 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	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/100m]
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

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

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