

Description

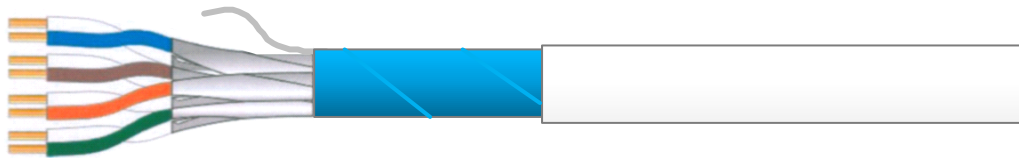
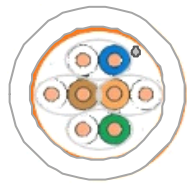
Local Area Network Cable

Cat. 6A F/FTP 4x2xAWG23/1 white LSZH
Grade 3 TV



Data Sheet

LAN6A44ZHB



Ø (mm)	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	EN 50173	EIA-TIA 568
NF C 15-100	XP C 90-483	XP C 93-531-17	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 - white - 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 ZHB MADE IN ITALY CAT 6A F/FTP 4x2xAWG23/1 - GRADE 3 TV XP C 93-531-17
Euroclass Dca,s1a,d2,a1 ISO-IEC 11801 EN50173-1 CEI-UNEL 36762 C-4 (U0 =400V) gggaan 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

14/03/2022

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]
1	2,10	25,00	90,00	87,90
4	3,60	25,00	90,00	86,40
10	5,40	25,00	90,00	84,60
16	6,80	25,00	90,00	83,20
20	7,70	25,00	85,00	77,30
31,25	9,60	25,00	85,00	75,40
62,5	13,70	25,00	80,00	66,30
100	17,40	25,00	80,00	62,60
155,5	21,90	25,00	80,00	58,10
250	28,10	25,00	75,00	46,90
450	38,30	25,00	70,00	31,70
500	40,00	25,00	70,00	30,00

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