

Description

Local Area Network Cable

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

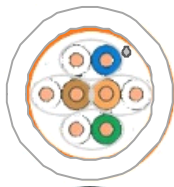
Coaxial Cables

CAVEL

since 1968

Data Sheet

LAN6A44ZHB



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	EN 50173	IEC 61156
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)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
IEEE 802.5 16 MB: ISDN; TPDDI; ATM

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

11/11/2020

Responsible

A. Bergaglio

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Physical data

Weight of copper conductors	19,80	kg/km
Total weight of cable	62,90	kg/km
Minimum bending radius x1/n	35/70	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
Velocity Ratio		77 %	
DC Conductor Resistance		73	Ohm/km
Loop resistance		146	Ohm/km
Insulation resistance		> 5000	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	> 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
125	19,50	25,00	80,00	60,50
155,5	21,90	25,00	80,00	58,10
175	23,30	25,00	75,00	51,70
200	25,00	25,00	75,00	50,00
250	28,10	25,00	75,00	46,90
300	30,90	25,00	70,00	39,10
450	38,30	25,00	70,00	31,70
500	40,00	25,00	70,00	30,00

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