

**Description**

Local Area Network Cable

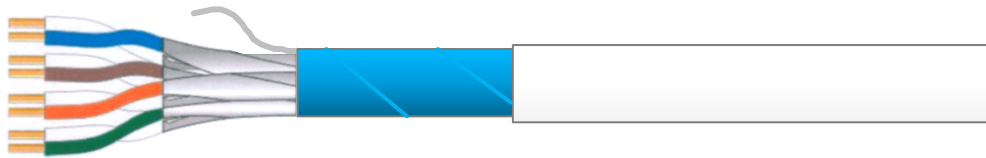
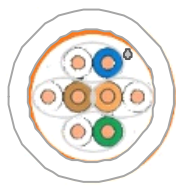
Cat. 6A F/FTP 4x2xAWG23/1 white LSZH (600 MHz)

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

EN 50173

IEC 61156-5

TIA/EIA-568-B.2

NF C 15-100

XP C 90-483

XP C 93-531-17

**Reaction to Fire**

IEC 60332-1

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	(CuSn)	Ø 0,40	mm
Aluminium/Polyester reversed tape spirally wound	(Al/Pet)	27 x 30/19	mm/µm
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.**

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Tel +39-382.815150 Fax +39-0382.814212

**Date****01/10/2019****Responsible****Alberto Scardovi**

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Grade 3 TV



## Data Sheet

LAN6A44ZHB

## 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
600	44,80	20,00	65,00	20,20
900	54,50	20,00	65,00	10,50
2200	90,00	10,00	55,00	-35,00

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