

**Description**

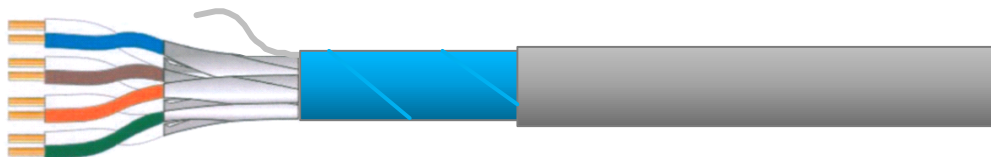
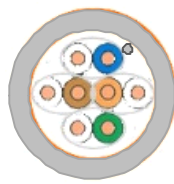
Local Area Network Cable

Cat. 6A F/FTP 4x2xAWG23/1 grey LSZH

Coaxial Cables

**CAVEL®**

since 1968

**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**

EN50173-1	EN50288-10-1	ISO/IEC 11801	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
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**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 - grey (RAL 7001) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 8,30	mm

Printed each meter by blue ink-jet :

**DA DEFINIRE****ITALIANA CONDUTTORI s.r.l.**

Viale Zanotti 90 I - 27027 Gropello Cairoli  
Tel +39-382.815150 Fax +39-0382.814212

**Date****09/12/2019****Responsible****Ing. A. Bergaglio**

**Description**

Local Area Network Cable

Cat. 6A F/FTP 4x2xAWG23/1 grey LSZH

**Data Sheet****LAN6A44ZH****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
500	40,00	25,00	70,00	30,00

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