

**Description**

Local Area Network Cable

Cat. 7A S/FTP 4x2xAWG23/1 black LSZH  
1200 MHz 41% Braid coverage

Coaxial Cables

**CAVEL**

since 1968

**Data Sheet****LAN745ZHN****Class CPR acc. to UE 305/2011 (DoP)**D<sub>ca</sub> s1a d1 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.

**Construction data**

Inner conductor of plain copper	(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

Braid of tinned copper wires	0,100	(CuSn)		
Braid Optical Coverage			41	%
Outer sheath of Thermoplastic material - black - halogen-free, low smoke, flame retardant and UV-resistant		(LSZH)	Ø 8,00	mm

Printed each meter by yellow ink-jet :

**CAVEL LAN 745 ZHN MADE IN ITALY CAT 7A S/FTP 4x2xAWG23/1 - Euroclass Dca,s1a,d1,a1 ISO-IEC 11801 EN50173-1 CEI-UNEL 36762 C-4 (U0 =400V) gggaan - m**

(ggg=day)(aa=year)(n=batch) (m=meter marking)

**Physical data**

Weight of copper conductors		24,40	kg/km
Total weight of cable		66,40	kg/km
Minimum bending radius x1/n		40/80	mm
Max.Tensile Strength		150	N
Installation temperature		0 / +50	°C
Operating temperature		-20 / +60	°C

**Electrical data**

Characteristic impedance	1 - 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

**ITALIANA CONDUTTORI s.r.l.**

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**Date**

05/12/2017

**Responsible**

Alberto Scardovi

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Coupling Attenuation &gt; 45 dB

## Screening Attenuation (SA)

30 - 100 MHz	> 80 dB
100 - 1000 MHz	> 85 dB

## Shield Transfer Impedance (Zt)

1 MHz	< 5 mOhm/m
10 MHz	< 3 mOhm/m
30 MHz	< 3 mOhm/m

**Transmission-Characteristic (at 20°C)**

Frequency [MHz]	Attenuation [dB/100m]	SRL [dB]	NEXT [dB]	ACR [dB]
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
750	51,00	20,00	65,00	14,00
900	54,50	20,00	65,00	10,50
1000	58,00	20,00	65,00	7,00
1200	62,00	20,00	60,00	-2,00

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