

Description

Local Area Network Cable

Cat. 7A S/FTP 4x2xAWG23/1 white with two blue stripes PVC
1200 MHz - 41 % Braid Coverage**Data Sheet****LAN745BU**

Ø	0,57	1,35			8,00
	(Cu)	(PEG)	(Al/Pet)	(CuSn)	(PVC)

Standards

EIA-TIA 568-B-2	EN50173-1	EN 50288-9-1	IEC 61156-5
ISO/IEC 11801			

Fire-Resistance Rating

IEC 60332-1

Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T

IEEE 802.5: ISDN; TPDDI; ATM; CATV; Broadband Video

Power over Ethernet (PoE)/PoE+

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 Polyvinylchloride - white with two blue bands - lead-free		(PVC)	Ø 8,00	mm

Printed each meter by blue ink-jet :

**CAVEL LAN 745 MADE IN ITALY ss/aa S/FTP 4x2xAWG23/1 - CATEGORY 7A ISO-IEC 11801 EN50173-1
CEI-UNEL 36762 C-4 (U0 = 400V) - m**

(ss=week, aa=year) (m=meter marking)

Physical data

Weight of copper conductors	24,40	kg/km
Total weight of cable	63,40	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

ITALIANA CONDUTTORI s.r.l.

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Tel +39-382.815150 Fax +39-0382.814212

Date

20/03/2018

Responsible

Alberto Scardovi

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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
Coupling Attenuation		> 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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