

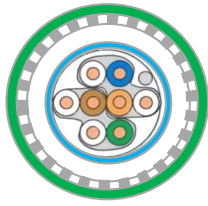
Description

Local Area Network Cable

Cat. 6A F/FTP 4x2xAWG23/1 green LSZH with rodent proof braid



Data Sheet

LAN645ZHBROD

Ø (mm)	0,57	1,35		8,30		11,30
	(Cu)	(PEG)	(Al/Pet)	(Al/Pet)	(LSZH)	(FeZn)

Standards

ISO/IEC 11801 Class Ea	EN50288-10-1	EN50173	EIA-TIA 568
CEI-UNEL 36762			

Reaction to Fire

EN50575

Application

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

IPTV; HbbTV 2.0.n

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

IEEE 802.5: ISDN; TPDDI; ATM; CATV; Broadband Video; PoE/PoE+

Indoor + Outdoor Installation

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		Ø 0,40	mm
Aluminum/Polyester reversed tape spirally wound	(Al/Pet)		
Inner sheath of Thermoplastic material - white - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 8,30 ± 0,10	mm
Sheath armor in Thermoplastic material - green (RAL 6018) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 11,30 ± 0,20	mm

Printed each meter by blue ink-jet :

**CAVEL LAN 645 ZHB RODENT MADE IN ITALY CAT 6A F/FTP 4x2xAWG23 ISO-IEC 11801 EN50173
CEI-UNEL 36762 C-4 (U0 =400V) gggaa(n) 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

14/07/2023

Responsible

A. Bergaglio

Description

Local Area Network Cable

Cat. 6A F/FTP 4x2xAWG23/1 green LSZH with rodent proof braid

**Data Sheet****LAN645ZHBROD****Physical data**

Weight of copper conductors	19,80	kg/km
Total weight of cable	170,00	kg/km
Minimum bending radius x1/n	57/114	mm
Max. Tensile Strength	100	N
Installation temperature	0 / +50	°C
Operating temperature	-20 / +80	°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
Insulation resistance		> 5000	MOhm x km
Sheath Insulation Voltage (DC, 1 min)		1	kV
Coupling Attenuation		> 45	dB

Screening Attenuation (SA)

30 - 100 MHz	> 70 dB
100 - 500 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]	ACR-F [dB/100m]
1	2,10	25,00	90,00	87,90	95,00
4	3,60	25,00	90,00	86,40	95,00
10	5,40	25,00	90,00	84,60	95,00
20	7,70	25,00	85,00	77,30	90,00
31,25	9,60	25,00	85,00	75,40	90,00
62,5	13,70	25,00	80,00	66,30	85,00
100	17,40	25,00	80,00	62,60	85,00
155,5	21,90	25,00	80,00	58,10	80,00
250	28,10	25,00	75,00	46,90	80,00
500	40,00	25,00	70,00	30,00	75,00

ITALIANA CONDUTTORI s.r.l.

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

Date

14/07/2023

Responsible

A. Bergaglio