

Description

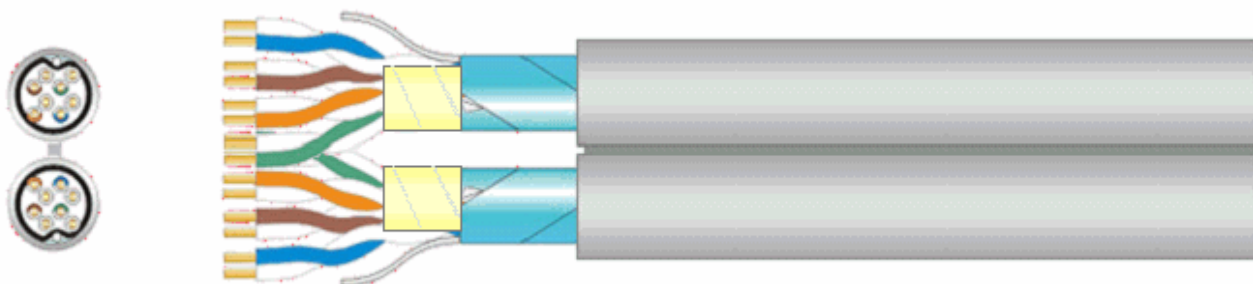
Local Area Network Cable

Cat. 5e F/UTP 4x2xAWG24/1 LSZH

Coaxial Cables

CAVEL®

since 1968

Data Sheet**2XLAN541ZH**

Ø	0,51	1,00	0,40	4,20	6,20 x 13,40
	(Cu)	(PE)	(CuSn)	(Al/Pet)	(LSZH)

Standards

EIA-TIA 568

EN 50173

ISO/IEC 11801

EN 50288-2-1

Reaction to Fire

EN50575

IEC 60332-1

Construction data

4 foil screened pairs with conductor of bare copper

(Cu)

Ø 0,51

mm

Insulation of solid Polyethylene

(PE)

Ø 1,00

mm

Polyester film spirally wrapped

(Pet)

Composition

Twisted pairs, coloured by Standard TIA-568A

Drain wire of tinned copper

Aluminum/Polyester tape spirally wound

(Al/Pet)

Outer sheath of Thermoplastic material - grey (RAL 7001) - halogen-free, low smoke, flame retardant and UV-resistant

(LSZH)

Ø 13,40 x 6,20

mm

Printed each meter by blue ink-jet :

CAVEL 2 x LAN 541 ZH MADE IN ITALY CAT 5E F/UTP 4x2xAWG24 ISO-IEC 11801 EN50173 CEI-UNEL
36762 C-4 (U0 = 400V) gggaan - m

(gggaan=batch number m=meter marking)

Physical data

Weight of copper conductors	31,22	kg/km
Total weight of cable	78,79	kg/km
Minimum bending radius x1/n	25/50	mm
Maximum tensile strength during the installation	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)		48	pF/m
Velocity Ratio		67 %	
DC Conductor Resistance		95	Ohm/km

ITALIANA CONDUTTORI s.r.l.

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

Date

08/10/2019

Responsible

Ing. A. Bergaglio

Description

Local Area Network Cable

Cat. 5e F/UTP 4x2xAWG24/1 LSZH

**Data Sheet****2XLAN541ZH**

Loop resistance	190	Ohm/km
Insulation resistance	> 2000	MOhm/km
Sheath Insulation Voltage (DC, 1 min)	1	kV
Coupling Attenuation	> 45	dB

Screening Attenuation (SA)

30 - 100 MHz

> 50 dB

Transfer Impedance (Zt)

1 MHz

< 22 mOhm/m

10 MHz

< 10 mOhm/m

30 MHz

< 26 mOhm/m

Transmission-Characteristic (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	RL [dB]	NEXT [dB]	ACR-N [dB/100m]
1	1,90	20,00	71,00	69,10
10	6,00	25,00	56,00	50,00
20	8,50	25,00	51,00	42,50
31,2	10,70	24,00	49,00	38,30
62,5	15,70	22,00	44,00	28,30
100	19,80	20,00	41,00	21,20
155,5	24,20		38,00	13,80
200	27,50		36,00	8,50
250	29,20		35,00	5,80
300	32,00		34,00	2,00

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