

Description

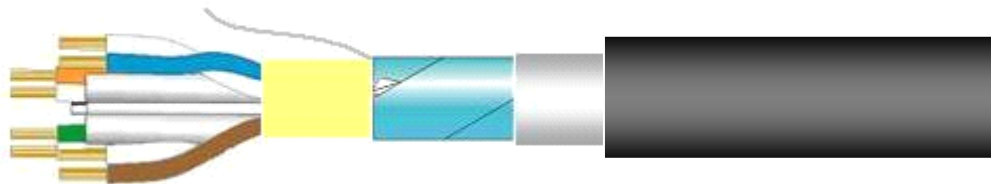
Local Area Network Cable

Cat. 6 F/UTP 4x2xAWG23/1 PVC+PE



Data Sheet

LAN6412G



Ø	0,57	1,14		7,80	9,00
	(Cu)	(PE)	(Pet) (Al/Pet)	(PVC)	(PE)

Class CPR acc. to UE 305/2011 (DoP)

Fca

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

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

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

Exterior and Underground Installation

Construction data

4 pairs with conductor of bare copper wires	(Cu)	Ø 0,57	mm
Insulation of solid Polyethylene	(PE)	Ø 1,14	mm
Polyester film spirally wrapped	(Pet)		

Composition

Twisted pairs, coloured by Standard TIA-568A

Drain wire of tinned copper

Plastic Cross Separator (PE)

External Aluminum/Polyester tape (Al/Pet)

Inner sheath of Polyvinylchloride - white - lead-free (PVC) Ø 7,80 mm

Outer sheath of Polyethylene - black (RAL 9011) (PE) Ø 9,00 mm

Printed each meter by yellow ink-jet :

CAVEL LAN 641 2G MADE IN ITALY CAT 6 F/UTP 4x2xAWG23 Euroclass Fca ISO-IEC 11801 EN50173

CEI-UNEL 36762 C-4 (U0 = 400V) gggaan m

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

ITALIANA CONDUTTORI s.r.l.

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

Date

30/03/2021

Responsible

A. Bergaglio

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Physical data

Weight of copper conductors	19,92	kg/km
Total weight of cable	70,80	kg/km
Minimum bending radius x1/n	35/70	mm
Maximum tensile strength during the installation	100	N
Minimum installation temperature	0 / +50	°C
Operating temperature	-20 / +70	°C

Electrical data

Characteristic impedance	100 MHz	100 ± 5	Ohm
Capacitance of Twisted Pair (@800Hz)		48	pF/m
Velocity Ratio		67 %	
DC Conductor Resistance		73	Ohm/km
Loop resistance		146	Ohm/km
Insulation resistance		> 5000	MOhm x km
Sheath Insulation Voltage (DC, 1 min)		3	kV
Coupling Attenuation		> 45	dB

Screening Attenuation (SA)

30 - 250 MHz > 50 dB

Transfer Impedance (Zt)

1 MHz	< 35 mOhm/m
10 MHz	< 41 mOhm/m
30 MHz	< 110 mOhm/m
100 MHz	< 150 mOhm/m

Transmission-Characteristic (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	RL [dB]	NEXT [dB]	ACR-N [dB/100m]
1	1,80	25,00	100,00	98,20
10	5,40	25,00	80,00	74,60
20	7,70	25,00	70,00	62,30
31,2	9,60	25,00	65,00	55,40
62,5	13,70	25,00	60,00	46,30
100	17,40	25,00	60,00	42,60
155,5	21,90	25,00	55,00	33,10
200	25,00	20,00	55,00	30,00
250	28,10	20,00	50,00	21,90

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