

Description

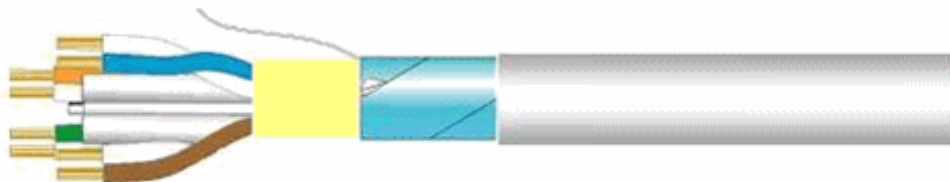
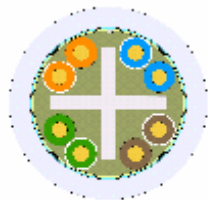
Local Area Network Cable

Cat. 6 F/UTP 4x2xAWG23/1 PVC



Data Sheet

LAN641



Ø	0,57	1,14		7,80
	(Cu)	(PE)	(Pet)	(PVC)

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

Eca

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

ISO/IEC 11801 Class E	EN 50288-5-1	EN50173	EIA-TIA 568
NF C 15-100	XP C 90-483	XP C 93-531-16	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 16 MB: ISDN; TPDDI; ATM; PoE

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

Printed each meter by blue ink-jet :

**CAVEL LAN 641 MADE IN ITALY CAT 6 F/UTP 4x2xAWG23 Euroclass Eca 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

09/03/2021

Responsible

A. Bergaglio

Description

Local Area Network Cable

Cat. 6 F/UTP 4x2xAWG23/1 PVC



Data Sheet

LAN641

Physical data

Weight of copper conductors	19,92	kg/km
Total weight of cable	56,40	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)		1	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]	ACR-F [dB]
1	1,80	25,00	100,00	98,20	85,00
10	5,40	25,00	80,00	74,60	75,00
20	7,70	25,00	70,00	62,30	65,00
31,2	9,60	25,00	65,00	55,40	60,00
62,5	13,70	25,00	60,00	46,30	55,00
100	17,40	25,00	60,00	42,60	50,00
155,5	21,90	25,00	55,00	33,10	48,00
250	28,10	20,00	50,00	21,90	40,00

Connectors

KJ641AA	Socket RJ45 FTP, Cat.6 toolless Alu, Socket RJ45
PLUG6F	Plug RJ45, Plug RJ45 FTP Cat. 6, Plug RJ45 -

ITALIANA CONDUTTORI s.r.l.

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

Date

09/03/2021

Responsible

A. Bergaglio