

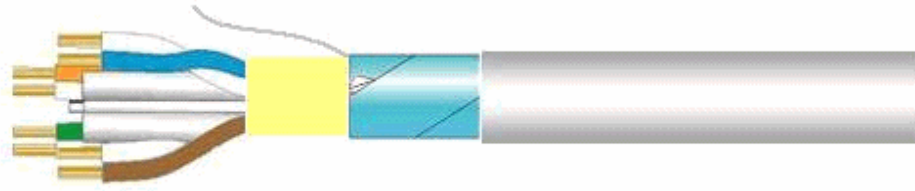
**Description**

Local Area Network Cable  
 Cat. 6 F/UTP 4x2xAWG23 PVC



**Data Sheet**

**LAN641**



**Construction data**

4x2xAWG23 pairs of copper wires	(Cu)	0,57	mm
Insulation of solid Polyethylene	(PE)	1,10	mm

Composition	Sheath Colour
	white/blu - blu
	white/green - green
	white/orange - orange
	white/brown - brown

Polyester film spirally wond	(Pet)		
Drain wire of tinned copper	(CuSn)	0,40	mm
Cross separator in Polyethylene	(PE)		
Outer Aluminium/Polyester tape	(Al/Pet)	27 x 30/19	mm/μm
Outer sheath of Polyvinylchloride - white (PVC) - lead-free	(PVC)		7,60 mm

Printed each meter by blue ink-jet :

**CAVEL LAN 641 MADE IN ITALY ss/aa F/UTP 4x2xAWG23 - CATEGORY 6 ISO-IEC 11801 EN50173 CEI-UNEL  
 36762 C-4 (U0 =400V) - m**

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

**Electrical data**

Characteristic impedance	1 - 100 MHz	100 ± 15	Ohm
	100 - 250 MHz	100 ± 18	Ohm
Capacitance of Twisted Pair (@800Hz)		48	pF/m
Velocity Ratio		67 %	
Conductor resistance @ 20°C		80	Ohm/Km
Loop resistance		160	Ohm/km
Insulation resistance		> 5.000	>MOhm x km
Test voltage (DC, 1 min)		1	KV
Screening Attenuation (SA) 30 - 250 MHz	Transfer impedance		
	> 40 dB	up to 1 MHz	< 2 mOhm/m
		up to 10 MHz	< 2,5 mOhm/m
		up to 30 MHz	< 6 mOhm/m
		up to 100 MHz	<1000 mOhm/m

**ITALIANA CONDUTTORI s.r.l.**

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

**Date**

**04/10/2013**

**Responsible**

**Giuseppe Guastella**

## Description

Local Area Network Cable

Cat. 6 F/UTP 4x2xAWG23 PVC

Coaxial Cables

**CAVEL**<sup>®</sup>

since 1968

## Data Sheet

**LAN641**

Frequency [MHz]	Attenuation [dB/100m]	SRL [dB]	NEXT [dB/100m]	ACR [dB]	FEXT [dB]
1	1,80	25,00	100,00	98,20	90,00
10	5,40	25,00	80,00	74,60	70,00
20	7,70	25,00	70,00	62,30	60,00
31,2	9,60	25,00	65,00	55,40	53,00
62,5	13,70	25,00	60,00	46,30	50,00
100	17,40	25,00	60,00	42,60	48,00
155,5	21,90	25,00	55,00	33,10	46,00
200	25,00	20,00	55,00	30,00	44,00
250	28,10	20,00	50,00	21,90	40,00

**Mechanical data**

Weight of copper conductors	19,36	kg/km
Total weight of cable	52,56	kg/km
Minimum bending radius (installation/operation)	70/35	mm
Maximum pulling strength during the installation	100	N
Working temperature	-20 / +60	°C
Minimum lay out temperature	0 / +50	°C

**Standards**

IEC60332-1  
EIA-TIA 568-B2  
ISO/IEC 11801; IEC 61156-5  
EN50173; EN50288-5-1

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