

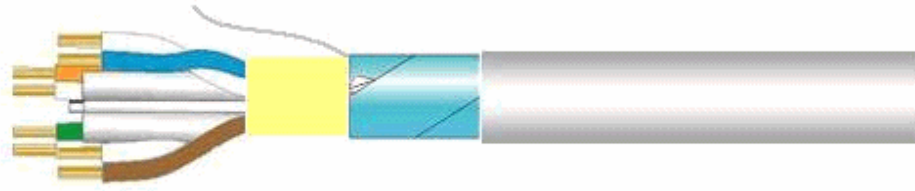
Description

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

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Date

04/10/2013

Responsible

Giuseppe Guastella

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Local Area Network Cable

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Coaxial Cables

CAVEL[®]

since 1968

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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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