

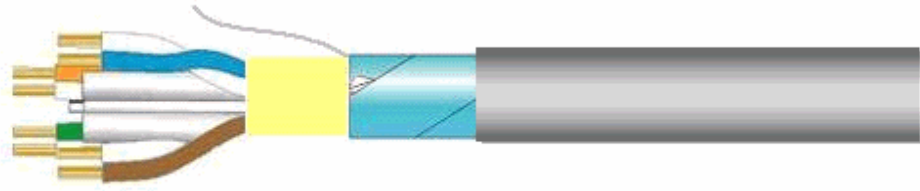
Description

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



Data Sheet

LAN641ZH



Construction data

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

Composition

- 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 Thermoplastic material - grey (RAL 7001) - halogen-free, flame retardant and UV-resistant	(LSZH)		7,60 mm

Printed each meter by blue ink-jet :

**CAVEL LAN 641 ZH 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 ± 22	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/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

30/11/2011

Responsible

Giuseppe Guastella

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Local Area Network Cable

Cat. 6 F/UTP 4x2xAWG23 LSZH

Coaxial Cables

CAVEL[®]

since 1968

Data Sheet

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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	55,41	kg/km
Minimum bending radius (installation/operation)	70/35	mm
Maximum cable pulling strength	100	N
Maximum pulling strength during the installation	100	N
Working temperature	-20 / +60	°C
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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