

Construction data**Composition**

Sheath Colour

LAN641ZH

Frequency
[MHz]Attenuation
[dB/100m]SRL
[dB]NEXT
[dB/100m]ACR
[dB]**Mechanical data**

Weight of copper conductors

39,86 kg/km

Total weight of cable

112,04 kg/km

ITALIANA CONDUTTORI s.r.l.

Viale Zanotti 90 I - 27027 Gropello Cairoli

Tel +39-382.815150 Fax +39-0382.814212

Date

Responsible

Description

Local Area Network Cable

Cat. 6 F/UTP 4x2xAWG23 LSZH

Coaxial Cables

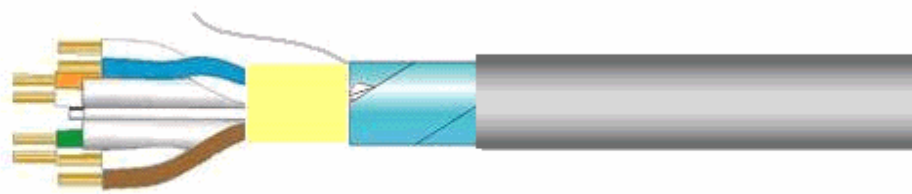
CAVEL[®]

since 1968

Data Sheet

LAN641ZH

2XLAN641ZH

**Construction data**

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

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

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30/11/2011

Responsible

Giuseppe Guastella

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Cat. 6 F/UTP 4x2xAWG23 LSZH

Coaxial Cables

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Screening Attenuation (SA)

30 - 250 MHz

> 40 dB

Transfer impedance

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

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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