Description

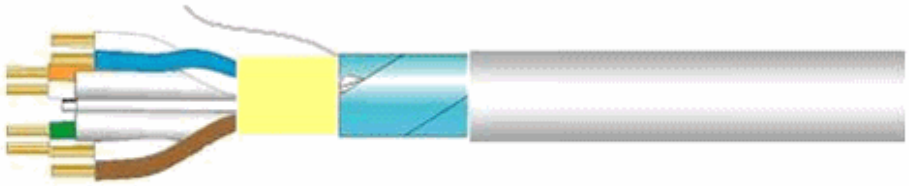
Local Area Network Cable

Cat. 6 F/UTP 4x2xAWG23/1 LSZH

Coaxial Cables CAVEL since 1968

Data Sheet

LAN641ZHB



Ø	0,57	1,10				7,80
	(Cu)	(PE)	(Pet)	(Al/Pet)		(LSZH)

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	EN 50173	IEC 61156
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)

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T

IEEE 802.5; ATM

Power over Ethernet (PoE)/PoE+

Construction data

4 pairs with conductor of bare copper wires	(Cu)	Ø 0,57	mm
Dielectric of solid polyethylene	(PE)	Ø 1,10	mm
Polyester film spirally wrapped	(Pet)		

Composition

Twisted pairs, coloured by Standard TIA-568A

Drain wire of tinned copper			
Cross separator in Polyethylene	(PE)		
External Aluminum/Polyester tape	(Al/Pet)		
Outer sheath of Thermoplastic material - white - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 7,80	mm

Printed each meter by blue ink-jet :

CAVEL LAN 641 ZHB MADE IN ITALY CAT 6 F/UTP 4x2xAWG23 Euroclass Eca ISO-IEC 11801 EN50173 CEI-UNEL 36762 C-4 (U0 = 400V) gggaan - m

(gggaan=batch number m=meter marking)

ITALIANA CONDUTTORI s.r.l.
Viale Zanotti 90 I - 27027 Gropello Cairoli
Tel +39-382.815150 Fax +39-0382.814212

Date 10/11/2020

Responsible A. Bergaglio

Description

Local Area Network Cable

Cat. 6 F/UTP 4x2xAWG23/1 LSZH

Coaxial Cables CAVEL since 1968

Data Sheet

LAN641ZHB

Physical data

Weight of copper conductors	19,92	kg/km
Total weight of cable	55,41	kg/km
Minimum bending radius x1/n	35/70	mm
Maximum cable pulling strength	100	N
Maximum tensile strength during the installation	100	N
Installation temperature	0 / +50	°C
Operating temperature	-20 / +60	°C

Electrical data

Characteristic impedance	100 MHz	100 ± 5	Ohm
Capacitance of Twisted Pair (@800Hz)		48	pF/m
Velocity Ratio		67 %	
DC Conductor Resistance		80	Ohm/km
Loop resistance		160	Ohm/km
Insulation resistance		> 5000	MOhm/km
Sheath Insulation Voltage (DC, 1 min)		1	kV
Coupling Attenuation		> 45	dB

Screening Attenuation (SA)

30 - 250 MHz	> 50 dB
250 - 1000 MHz	> 45 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]
1	1,80	25,00	100,00	98,20
10	5,40	25,00	80,00	74,60
20	7,70	25,00	70,00	62,30
31,2	9,60	25,00	65,00	55,40
62,5	13,70	25,00	60,00	46,30
100	17,40	25,00	60,00	42,60
155,5	21,90	25,00	55,00	33,10
200	25,00	20,00	55,00	30,00
250	28,10	20,00	50,00	21,90

ITALIANA CONDUTTORI s.r.l.
Viale Zanotti 90 I - 27027 Gropello Cairoli
Tel +39-382.815150 Fax +39-0382.814212

Date 10/11/2020

Responsible A. Bergaglio