

Description

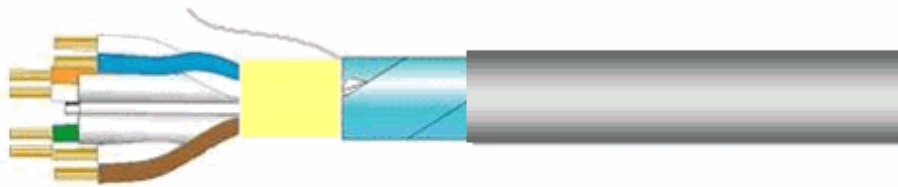
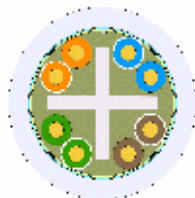
Flexible Local Area Network Patch Cable

Cat. 6 F/UTP 4x2xAWG24/7



Data Sheet

LANF641ZH



Ø (mm)	0,60 -7x0,20	1,10			7,60
	(Cu)	(PE)	(Pet)	(Al/Pet)	(LSZH)

Standards

EN50288-5-2	EN50173	ISO/IEC 11801	IEC 61156
EIA-TIA 568	CEI-UNEL 36762		

Reaction to Fire

EN50575

Application

Work area, patch cord cable
 IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T
 IEEE 802.5 16 MB: ISDN; TPDDI; ATM

Construction data

4 foil screened paires of bare copper strand	(Cu)	7x0,20	Ø 0,60	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 - grey (RAL 7001) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)		Ø 7,60	mm

Printed each meter by blue ink-jet :

CAVEL LAN F 641 ZH MADE IN ITALY CAT 6 F/UTP 4x2xAWG24/7 ISO-IEC 11801 EN50173 CEI-UNEL 36762 C-4 (U0 = 400V) gggaan - m

(gggaan=batch number m=meter marking)

Physical data

Weight of copper conductors	17,66	kg/km
Total weight of cable	53,00	kg/km
Minimum bending radius x1/n	30/60	mm
Maximum cable pulling strength	100	N
Installation temperature	0 / +50	°C
Operating temperature	-20 / +60	°C

ITALIANA CONDUTTORI s.r.l.

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Date

11/11/2020

Responsible

A. Bergaglio

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Electrical data

Characteristic impedance	100 MHz	100 ± 5	Ohm
Capacitance of Twisted Pair (@800Hz)		48	pF/m
Velocity Ratio		67 %	
DC Conductor Resistance		85	Ohm/km
Loop resistance		170	Ohm/km
Insulation resistance		> 5000	MOhm/km
Sheath Insulation Voltage (DC, 1 min)		1	kV
Coupling Attenuation		> 45	dB

Screening Attenuation (SA)

30 - 100 MHz	> 55 dB
100 - 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/10m]	RL [dB]	NEXT [dB]	ACR-N [dB/100m]
1	0,18	25,00	100,00	98,20
10	0,54	25,00	80,00	74,60
20	0,77	25,00	70,00	62,30
31,2	0,96	25,00	65,00	55,40
62,5	1,37	25,00	60,00	46,30
100	1,74	25,00	60,00	42,60
155,5	2,19	25,00	55,00	33,10
200	2,50	20,00	55,00	30,00
250	2,81	20,00	50,00	21,90

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