

Description

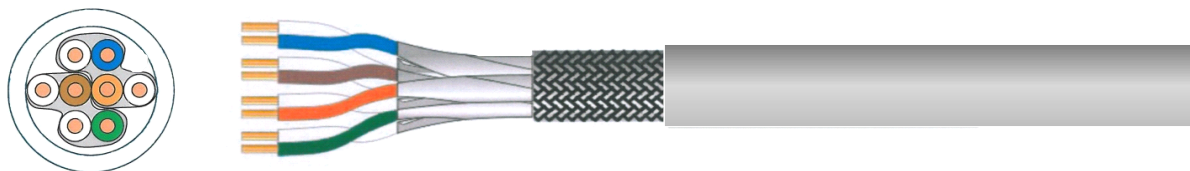
Flexible Local Area Network Patch Cable

Cat. 6 S/FTP (PiMF mode) 4x2xAWG26/7 LSZH
40% Braid Coverage



Data Sheet

LANF645ZH



Ø	0,48 - 7x0,16	1,20	3,90	4,30	7,00
	(Cu)	(PEE)	(Al/Pet)	(CuSn)	(LSZH)

Standards

ISO/IEC 11801	IEC 61156	EN 50173-1	EN 50288-5-1
EIA-TIA 568			

Reaction to Fire

IEC 60332-1	IEC 60332-3-24
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Application

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

Construction data

4 foil screened paires of bare copper strand	(Cu)	7x0,16	Ø 0,48	mm
Insulation of physical foam Polyethylene	(PEG)		Ø 1,20	mm
Al/Pet foil shielded pairs, PiMF mode	(Al/Pet)			

Composition

Twisted pairs, coloured by Standard TIA-568A

Braid of tinned copper wires	(CuSn)			
Braid Optical Coverage			40	%
Outer sheath of Thermoplastic material - grey (RAL 7001) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)		Ø 7,00	mm

Printed each meter by blue ink-jet :

CAVEL LANF 645 ZH MADE IN ITALY CAT 6 S/FTP 4x2xAWG26/7 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	14,60	kg/km
Total weight of cable	44,80	kg/km
Minimum bending radius x1/n	30/60	mm
Max.Tensile Strength	150	N
Installation temperature	0 / +50	°C
Operating temperature	-20 / +60	°C

Electrical data

Characteristic impedance	100 MHz	100 ± 5	Ohm
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ITALIANA CONDUTTORI s.r.l.

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Tel +39-382.815150 Fax +39-0382.814212

Date

29/02/2016

Responsible

Alberto Scardovi

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Capacitance of Twisted Pair (@800Hz)	43	pF/m
Velocity Ratio	79 %	
DC Conductor Resistance	130	Ohm/km
Loop resistance	260	Ohm/km
Insulation resistance	> 2000	MOhm/km
Sheath Insulation Voltage (DC, 1 min)	1	kV
Coupling Attenuation	> 45	dB

Screening Attenuation (SA)

30 - 100 MHz	> 80 dB
100 - 600 MHz	> 85 dB

Transfer Impedance (Zt)

1 MHz	< 5 mOhm/m
10 MHz	< 3 mOhm/m
30 MHz	< 3 mOhm/m
100 MHz	< 2 mOhm/m

Transmission-Characteristic (at 20°C)

Frequency [MHz]	Attenuation [dB/10m]	RL [dB]	NEXT [dB]	ACR-N [dB/100m]
1	0,30	25,00	90,00	87,00
10	0,90	25,00	90,00	81,00
20	1,30	25,00	85,00	72,00
31,25	1,60	25,00	85,00	69,00
62,5	2,40	25,00	80,00	56,00
100	3,00	25,00	80,00	50,00
155,5	3,60	20,00	80,00	44,00
200	4,10	20,00	75,00	34,00
250	4,40	20,00	75,00	31,00
300	4,80	20,00	75,00	27,00
500	6,40	20,00	70,00	6,00
600	7,00	20,00	70,00	0,00

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