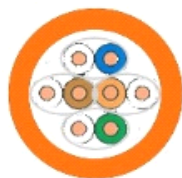




Flexible Local Area Network Patch Cable

Cat. 7 S/FTP 4x2xAWG24/7 orange LSZH - 30% Braid Coverage



Ø (mm)	7x0,20	1,30		7,80
	(Cu)	(PEG)	(Al/Pet)	(CuSn)
				(LSZH)

### Standards

EN50288-4-2	EN50173	ISO/IEC 11801	IEC 61156
EIA-TIA 568	CEI-UNEL 36762		

### Application

Work area, patch cord cable

IPTV; HbbTV 2.0.n

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

IEEE 802.5: ISDN; TPDDI; ATM; CATV; Broadband Video; PoE/PoE+

Indoor + Outdoor Installation

### Construction data

4 pairs with conductor of bare copper wires	(Cu)	7x0,20	Ø 0,60	mm
Insulation of physical foam Polyethylene	(PEG)		Ø 1,30	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			30	%
Outer sheath of Thermoplastic material - orange (RAL 2003) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)		Ø 7,80	mm
Printed each meter by blue ink-jet :				

**CAVEL LANF 7454 ZHA MADE IN ITALY CAT 7 S/FTP 4x2xAWG24/7 ISO-IEC 11801 EN50288-4-2 CEI-UNEL 36762 C-4 (U0 = 400V) gggaa(n) m**

(ggg=day)(aa=year)(n=batch) (m=meter marking)

### Physical data

Weight of copper conductors	24,40	kg/km
Total weight of cable	66,40	kg/km
Minimum bending radius x1/n	40/80	mm
Max.Tensile Strength	150	N
Installation temperature	0 / +50	°C
Operating temperature	-20 / +80	°C

### Electrical data

## ITALIANA CONDUTTORI s.r.l.

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Tel +39-382.815150 Fax +39-0382.814212

Date

27/05/2021

Responsible

A. Bergaglio



Flexible Local Area Network Patch Cable

Cat. 7 S/FTP 4x2xAWG24/7 orange LSZH - 30% Braid Coverage

Characteristic impedance	100 MHz	100 ± 5	Ohm
Capacitance of Twisted Pair (@800Hz)		43	pF/m
Velocity Ratio		77 %	
DC Conductor Resistance		85	Ohm/km
Loop resistance		170	Ohm/km
Insulation resistance		> 5000	MOhm x km
Sheath Insulation Voltage (DC, 1 min)		1	kV
Coupling Attenuation		> 45	dB

## Screening Attenuation (SA)

30 - 100 MHz	> 80 dB
100 - 600 MHz	> 70 dB

## Transfer Impedance (Zt)

1 MHz	< 9 mOhm/m
10 MHz	< 6 mOhm/m
30 MHz	< 5 mOhm/m

## Transmission-Characteristic (at 20°C)

Frequency [MHz]	Attenuation [dB/10m]	RL [dB]	NEXT [dB]	ACR-N [dB/100m]
1	0,21	25,00	90,00	87,90
4	0,36	25,00	90,00	86,40
10	0,54	25,00	90,00	84,60
16	0,68	25,00	90,00	83,20
20	0,77	25,00	85,00	77,30
31,25	0,96	25,00	85,00	75,40
62,5	1,37	25,00	80,00	66,30
100	1,74	25,00	80,00	62,60
155,5	2,19	25,00	80,00	58,10
250	2,81	25,00	75,00	46,90
450	3,83	25,00	70,00	31,70
600	4,48	20,00	65,00	20,20

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