

Description

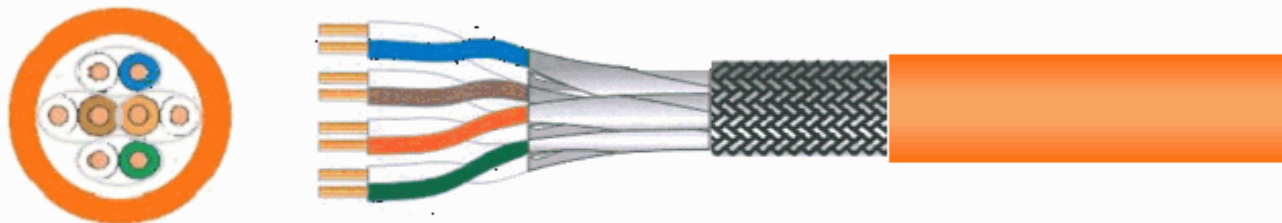
Local Area Network Cable

Cat. 7A S/FTP 4x2xAWG22/1 LSZH
1500MHz - 40% Braid Coverage



Data Sheet

LAN7A1500454ZHA



Ø (mm)	0,62	1,50		8,20
	(Cu)	(PEG)	(Al/Pet)	(CuSn)
				(LSZH)

Class CPR acc. to UE 305/2011 (DoP)

Dca s1a,d1,a1

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 Cl II (up to 1,5 GHz)	EN50288-12-1 (fino a 1,5 GHz)	EN50173	EIA-TIA 568
CEI-UNEL 36762			

Reaction to Fire

EN50575

Application

- Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
- Up to Class FA (1000 MHz), up to 100 m (Channel)
- Over 1000 MHz, up to 50 m (Channel)
- IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T; 25GBase-T; 40GBase-T
- IEEE 802.5: ISDN; TPDDI; ATM; CATV; Broadband Video; PoE/PoE+
- Indoor + Outdoor Installation

Construction data

Inner conductor of plain copper	(Cu)	Ø 0,62	mm
Insulation of physical foam Polyethylene	(PEG)	Ø 1,50	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 - orange (RAL 2003) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 8,20	mm
Printed each meter by blue ink-jet :			

ITALIANA CONDUTTORI s.r.l.

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Tel +39-382.815150 Fax +39-0382.814212

Date

14/07/2023

Responsible

A. Bergaglio

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CAVEL LAN 7A 1500 454 ZHA MADE IN ITALY CAT 7A S/FTP 4x2xAWG22 Euroclass Dca s1a,d1,a1
ISO-IEC 11801 EN50173 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	30,20	kg/km
Total weight of cable	70,30	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

Characteristic impedance	100 MHz	100 ± 5	Ohm
Capacitance of Twisted Pair (@800Hz)		43	pF/m
Velocity Ratio		77 %	
DC Conductor Resistance		57,50	Ohm/km
Loop resistance		115	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 - 1000 MHz	> 85 dB

Transfer Impedance (Zt)

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

Transmission-Characteristic (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	RL [dB]	NEXT [dB]	ACR-N [dB/100m]	ACR-F [dB]
1	2,10		105,40	103,30	90,00
4	3,70	23,00	96,40	92,70	90,00
10	5,80	25,00	90,40	84,60	90,00
20	8,20	25,00	85,90	77,70	90,00
31,25	10,30	25,00	83,00	72,70	85,00
62,5	14,60	23,60	78,50	63,90	85,00
100	18,50	22,20	75,40	56,90	80,00
155,5	23,20	20,90	72,50	49,30	80,00
250	29,70	19,40	69,40	39,70	75,00
500	43,70	18,30	65,60	21,90	75,00
600	47,10	16,80	63,70	16,60	75,00
1000	61,90	15,20	60,40	-1,50	65,00
1500	77,20	14,00	57,80	-19,40	60,00

Connectors

MGN7A45	Socket RJ45 S/FTP shielded, Shielded, crimp PS-GG45 Nexans, Socket RJ45 -
MTS7A45	Socket RJ45 S/FTP shielded, Shielded, crimp PS-TERA™ Siemon, Socket RJ45 -
PF-24PN	Patch panel, ?Pannello 19" 24 Porte Vuoto per RJ45 FTP 1 HE con, Patch panel UTP -

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