

Description

Videosurveillance LAN Cable
 Cat.5e U/UTP 4x2xAWG24/1 LSZH



Data Sheet

VS540



Ø (mm)	0,51	0,90	5,10
	(Cu)	(PE)	(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 D	EN 50288-3-1	---	EN 50173
EIA-TIA 568	CEI-UNEL 36762		

Reaction to Fire

EN 50575

Application

Indoor + Outdoor Installation

Construction data

4 pairs with conductor of bare copper wires	(Cu)	Ø 0,51	mm
Insulation of solid Polyethylene	(PE)	Ø 0,90	mm

Composition

Twisted pairs, coloured by Standard TIA-568A

Outer sheath of Thermoplastic material - blue (RAL 5015) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 5,10	mm
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Printed each meter by blue ink-jet :

CAVEL VS 540 LSZH MADE IN ITALY CAT 5E U/UTP 4x2xAWG24 - Euroclass Eca 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	14,32	kg/km
Total weight of cable	32,15	kg/km
Minimum bending radius (installation/operation)	40/20	mm
Maximum tensile strength during the installation	100	N
Installation temperature	0 / +50	°C
Operating temperature	-20 / +80	°C

Electrical data

ITALIANA CONDUTTORI s.r.l.

Viale Zanotti 90 I - 27027 Gropello Cairoli
 Tel +39-382.815150 Fax +39-0382.814212

Date

01/09/2022

Responsible

A. Bergaglio

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**Data Sheet****VS540****Electrical data**

Characteristic impedance	100 MHz	100 ± 5	Ohm
Capacitance of Twisted Pair (@800Hz)		48	pF/m
Velocity Ratio		67 %	
DC Conductor Resistance		95	Ohm/km
Loop resistance		190	Ohm/km
Insulation resistance		> 5000	MOhm x km
Sheath Insulation Voltage (DC, 1 min)		1	kV

Transmission-Characteristic (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	RL [dB]	NEXT [dB]	ACR-N [dB/100m]
1	1,90	25,00	71,00	69,10
10	6,00	25,00	56,00	50,00
20	8,50	25,00	51,00	42,50
31,2	10,70	24,00	49,00	38,30
62,5	15,70	22,00	44,00	28,30
100	19,80	20,00	41,00	21,20

Connectors

KJ540AB	Socket RJ45 UTP, Cat.5e toolless black, Socket RJ45
KJ540AN	Socket RJ45 UTP, Cat.5e toolless black, Socket RJ45
PLUG5U	Plug RJ45, Plug RJ45 UTP Cat. 5e, Plug RJ45 -

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