



Product: 9842LV

RS485, 2 Pr #24 Str TC, PO Ins, OS+TC Brd, LSZH Jkt, B2ca

Product Description

RS-485, 2 Pair 24AWG (7x32) Tinned Copper, PO Insulation, Overall Beldfoil®+Tinned Copper Braid(90%) Shield, LSZH Outer Jacket, CPR B2ca

Technical Specifications

Product Overview

	nunications; Low Voltage Analog Signals (4-20ma, 0-10v,); Low Voltage Digital Control (24v,); Line Level Audio; Panel Wiring; serial lard) comprising of PLCs, VFDs, HMls, motors, RTU, SCADA, etc. within noisy environments over long distance, etc.
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
24	7x32	TC - Tinned Copper	2
Condu	uctor Count:		4
Total I	Number of Pa	airs:	1

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
PE - Polyethylene	1.73 mm	0.05 mm

Color Chart

Number	Color
Pair 1	White/Blue & Blue/White
Pair 2	White/Orange & Orange/White

Outer Shield

Туре	Layer	Material	Material Trade Name	Coverage [%]	Thickness of Foil	Drainwire AWG
Таре	1	Bi-Laminate (Alum+Poly)	Beldfoil® (Z-Fold®)	100%	9 / 23 µm	AWG24/7
Braid	2	Tinned Copper (TC)		90%		

Outer Jacket

Material	Color	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	Chrome (RAL 7037)	8.40 mm	1.0 mm

Construction and Dimensions

Stranding

Lay Direction	Twists
Left Hand	12 twist/ft

Cabling

Description
2 pairs and 2 fillers twisted to cable core

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
78.7 Ohm/km	7.2 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
42 pF/m	75.5 pF/m

Impedance

Frequency [MHz]	Nominal Characteristic Impedance
1	120 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	1.97 dB/100m

Delay

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
66 ns/100m	5.2 ns/m	66%

Current

Max. Recommended Current [A]
2.1 Amps per Conductor

Voltage

Voltage Rating [V]
300 V

Temperature Range

Installation Temperature Range:	-15°C To +80°C
Storage Temperature Range:	-45°C To +80°C
Operating Temperature Range:	-20°C To +80°C
Operating Temp Range (Flexible Install):	-15°C To +80°C
Operating Temp Range (Fixed Install):	-45°C To +80°C

Mechanical Characteristics

Oil Resistance:	IEC 60811-404
Max. Pull Tension:	395 N
Min. Bend Radius During Installation:	88 mm

Standards

CPR Euroclass:	B2ca-s1a,d1,a1
CENELEC Compliance:	EN 50290-2-20

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass B2ca
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
Suitability - Non-Halogenated:	Yes
Suitability - Oil Resistance:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
IEC 60754-1 - Halogen Amount:	Zero

IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity:	2.5 μS/mm
IEC 60754-2 - Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 - Smoke Density Min. Transmittance:	80%

Plenum/Non-Plenum

Plenum (Y/N):	No

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	EAN
9842LV.00500	Chrome	Reel	500 m	8719605179982

History

Update and Revision:	Revision Number: 0.74 Revision Date: 02-13-2024

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