



Product: [9842LS](#)

RS-485, 2PR #24 Str TC, PO ins, F/B, LSNH Jkt, 300V, SWA

Product Description

RS-485, 2 Pair AWG 24 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil + Braid(s) shielding, LSZH / FRNC jacket , 300V, SWA

Technical Specifications

Product Overview

Environmental Space:	Indoor/Outdoor - Euroclass Eca
Suitable Applications:	RS-485 Instrumentation and computer cable; For EIA RS-485 data transmission applications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
24	7x32	TC - Tinned Copper	2

Conductor Count:	4
Total Number of Pairs:	2

Insulation

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

Color Chart

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

Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Aluminum / Polyester	Z-fold®		Tinned copper	AWG24/7
Braid	Tinned copper		90 %		

Inner Jacket Material

Material	Color	Nominal Diameter	Nominal Wall Thickness
FRNC / LSZH	Chrome (RAL 7037)	8.65 mm	1.1 mm

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH / FRNC (UV stabilised)	13.1 mm	1.35 mm

Construction and Dimensions

Cabling

Description	Filler
2 pairs and 2 fillers twisted to cable core	Polypropylene (2x) (White, 2.87 mm)

Armor

Type of Armor	Material	Thickness of Armoring Wires	Coverage Percentage
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Steel Wire Armoring	Galvanized steel wire	0.9 mm	Min. 95 %
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Electrical Characteristics

Conductor DCR

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

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 MHz	120 Ohm

High Frequency (Nominal/Typical)

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

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
520 ns/ft	66 %

Current

Element	Max. Recommended Current [A]
Conductor	2.1 A

Voltage

Voltage Rating [V]
300 V

Temperature Range

Installation Temp Range:	-15°C To +80°C
Storage Temp Range:	-45°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
Min Bend Radius During Installation:	196.5 mm

Standards

CPR Euroclass:	Eca
CENELEC Compliance:	EN 50290-2-27

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01
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Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

Part Number

Variants

Item #	Color	Length
9842LS.001000	Black	1,000 m
9842LS.001200	Black	1,200 m
9842LS.001280	Black	1,280 m
9842LS.001500	Black	1,500 m
9842LS.00152	Black	152 m
9842LS.002000	Black	2,000 m

9842LS.002600	Black	2,600 m
9842LS.00500	Black	500 m
9842LS.01500	Black	500 m
9842LS.011000	Black	1,000 m
9842LS.012000	Black	2,000 m
9842LS.K01000	Black	1,000 m
9842LS.K0500	Black	500 m
9842LS.011500	Black	1,500 m
9842LS.021000	Green	1,000 m
9842LS.02500	Green	500 m
9842LS.03500	Green	500 m

History

Update and Revision:	Revision Number: 0.162 Revision Date: 02-01-2020
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