



Product: [9842LS](#)

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

Product Description

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

Technical Specifications

Product Overview

Suitable Applications:	RS-485, POS; Computer communications; Low Voltage Analog Signals (4-20ma, 0-10v, ...); Low Voltage Digital Control (24v, ...); Line Level Audio; Panel Wiring; serial communication (RS-485 standard) comprising of PLCs, VFDs, HMIs, motors, RTU, SCADA, etc. within noisy environments over long distance, etc.
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Construction Details

Conductor

Size	Stranding	Material
24	7x32	TC - Tinned Copper

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	1.73 mm (0.0681 in)	White/Blue & Blue/White, White/Orange & Orange/White

Inner Shield

Shield Type	Material
Tape	Bi-Laminate (Alum+Poly)
Braid	Tinned Copper (TC)

Inner Jacket

Material	Nom. Thickness	Nom. Diameter	Color
LSZH - Low Smoke Zero Halogen (Flame Retardant)	1.1 mm (0.043 in)	8.65 mm (0.341 in)	Chrome (RAL 7037)

Table Notes:	UV Stabilised
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Armor

Armor Type & Material	Armor Thickness	Coverage
SWA - Steel Wire Armor	0.9 mm (0.035 in)	Min. 95%

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	1.35 mm (0.0531 in)	13.1 mm (0.516 in)

Table Notes:	UV Stabilised
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Overall Cable Diameter (Nominal):	13.1 mm (0.516 in)
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Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
78.7 Ohm/km (24.0 Ohm/1000ft)	7.2 Ohm/km (2.2 Ohm/1000ft)	42 pF/m (13 pF/ft)	75.5 pF/m	120 Ohm	66%	2.1 Amps per Conductor

High Frequency (Nominal/Typical)

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

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-45°C To +80°C	-15°C To +80°C	-45°C To +80°C

Bend Radius

Stationary Min.	Installation Min.
130 mm (5.1 in)	196 mm (7.72 in)

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor - Euroclass Eca, Indoor, Outdoor, Non-Halogenated, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2 and IEC 60332-3-24
CPR Compliance:	CPR Euroclass: Eca
ISO/IEC Compliance:	IEC 61034-2 - Smoke Density Min Transmittance = 60%
CENELEC Compliance:	EN 50290-2-27
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, 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
European Directive Compliance:	EU CE Mark

History

Update and Revision:	Revision Number: 0.229 Revision Date: 05-06-2022
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Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
9842LS.00152	Black	Reel	152 m	8719605023094
9842LS.00500	Black	Reel	500 m	8719605023124
9842LS.01500	Black	Reel	500 m	8719605023162
9842LS.001000	Black	Reel	1,000 m	8719605023056
9842LS.011000	Black	Reel	1,000 m	8719605023131
9842LS.001200	Black	Reel	1,200 m	8719605023063
9842LS.001280	Black	Reel	1,280 m	8719605023070
9842LS.001500	Black	Reel	1,500 m	8719605023087
9842LS.011500	Black	Reel	1,500 m	8719605023148
9842LS.002000	Black	Reel	2,000 m	8719605023100
9842LS.012000	Black	Reel	2,000 m	8719605023155
9842LS.002600	Black	Reel	2,600 m	8719605023117
9842LS.02500	Green	Reel	500 m	8719605023186
9842LS.03500	Green	Reel	500 m	8719605023193
9842LS.021000	Green	Reel	1,000 m	8719605023179

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