



Product: 9841LS ☑

RS 485, 1PR #24 Str TC, PO ins, F/B, LSNH Jkt, 300V SWA

Product Description

RS 485, 1 Pair AWG 24 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil + Braid(s) shielding, LSZH / FRNC jacket , 300V SWA

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, outdoor etc

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	1	24 AWG	7x32	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PE - Polyethylene	0.56 mm (0.022 in)	1.73 mm (0.0681 in)	White/Blue & Blue/White

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Таре	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC
Braid	Tinned Copper (TC)	90%	

Inner Jacket

Material	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.9 mm (0.035 in)	6.1 mm (0.24 in)

Armor

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

Outer Jacket

ivia	iteriai	Nom. Inickness	Nom. Diameter
LSZH - Low Smoke Zero	Halogen (Flame Retardant)	1.3 mm (0.051 in)	10.3 mm (0.406 in)
Overall Cable Diameter (Nominal):	10.3 mm (0.406 in)		

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current	
Pair(s)	78.7 Ohm/km (24.0 Ohm/1000ft)	42 pF/m (13 pF/ft)	75.5 pF/m	120 Ohm	66%	2.1 Amps per Conductor	
Nom. Ou	Nom. Outer Shield DCR: 11 Ohm/km (3.4 Ohm/1000ft)						

High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss (Attenuation)
Pair(s)	1	1.97 dB/100m (0.600 dB/100ft)

Voltage

Voltage Rating 300 V

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.
100 mm (3.9 in)	154.5 mm (6.083 in)

Max. Pull Tension: 500 N (110 lbf) Bulk Cable Weight: 215 kg/km (144 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Indoor/ndoor/OutdoorOutdoorIndoor/Outdoor - Euroclass Eca, Indoor, Outdoor, Non-Halogenated, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	IEC 60332-3-22, IEC 60332-3-24
CPR Compliance:	CPR Euroclass: Eca
ISO/IEC Compliance:	IEC 61034-2 - Smoke Density Min Transmittance = 60%
CENELEC Compliance:	EN 50290-2-20
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
UK Regulation Compliance:	UKCA Mark
Other Standard Compliance(s):	DMX-512

History

Update and Revision:	Revision Number: 0.243 Revision Date: 04-07-2025		
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Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
9841LS.01305	Black	Reel	305 m	8719605022882
9841LS.01500	Black	Reel	500 m	8719605022899
9841LS.011000	Black	Reel	1,000 m	8719605022851
9841LS.011300	Black	Reel	1,300 m	8719605022868
9841LS.011500	Black	Reel	1,500 m	8719605022875
9841LS.021525	Gray	Reel	1,525 m	8719605022905

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