



**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 Instrumentation and computer cable; For EIA RS-485 data transmission applications
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#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	No. of Pairs
24	7x32	TC - Tinned Copper	1

Conductor Count:	2
Total Number of Pairs:	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

##### Inner Shield Material

Type	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Beldfoil®		TC - Tinned Copper	AWG24/7
Braid		95%		

##### Inner Jacket Material

Material	Color	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	Chrome (RAL 7037)	6.1 mm	0.9 mm

##### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	10.3 mm	1.3 mm

#### Construction and Dimensions

##### Cabling

Description	Filler
1 pair and 2 fillers twisted to cable core	Polypropylene (2x) (White, 1.90 mm)

##### Armor

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

## Electrical Characteristics

### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
78.7 Ohm/km	11 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 Amps per Conductor

### 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:	154.5 mm

## Standards

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

## Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor - Euroclass Eca
EU RoHS Compliance Date (yyyy-mm-dd):	2012-05-22

## Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-3-24 and IEC 60332-3-22
IEC 60754-1 (EN50267-1)- Halogen Amount:	Zero
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 (EN 61034-2) (VDE 0482-1034) - Smoke Density Min. Transmittance:	60%

## Part Number

### 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

## History

Update and Revision:	Revision Number: 0.187 Revision Date: 12-18-2020
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