



Product: <u>9842LS</u> ☑

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 / | | | | | tage Analog Signals (4-20ma, 0-10v,); Low Voltage Digita s, motors, RTU, SCADA, etc. within noisy environments ove | Control (24v,); Line Level Audio; Panel Wiring; serial comm r long distance, etc. |
|---------------------------------|-------------------------------------|--------------------|-------------------------|---|---|--|
| Constru | uction Detail | 5 | | | | |
| Conducto | or | | | | | |
| Element | No. of Elements | Size | Stranding | Material | | |
| Pair(s) | 2 | 24 AWG | 7x32 | TC - Tinned Copper | | |
| Insulation | | | | | | |
| Element | | Nom. T | hickness | Nom. Insulation Diameter | r Color Code | |
| | | | | Nom. Insulation Diameter 1.73 mm (0.0681 in) | r Color Code White/Blue & Blue/White, White/Orange & Orange/White | |
| Element | Material PE - Polyethylen | | | | | |
| Element Pair(s) Outer Shi | Material PE - Polyethylen eld | | | 1.73 mm (0.0681 in) | | |
| Element Pair(s) | Material PE - Polyethylen eld | e 0.56 mn erial | n (0.022 in) Coverag | 1.73 mm (0.0681 in) | | |

Inner Jacket

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

Armor

 Armor Type & Material
 Armor Thickness
 Coverage

 SWA - Steel Wire Armor
 0.9 mm (0.035 in)
 Min. 95%

Outer Jacket

| Mat | erial | Nom. Thickness | Nom. Diameter | |
|---|---------------------------|---------------------|--------------------|--|
| LSZH - Low Smoke Zero | Halogen (Flame Retardant) | 1.35 mm (0.0531 in) | 13.1 mm (0.516 in) | |
| Overall Cable Diameter (Nominal): 13.1 mm (0.516 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: 7.2 Ohm/km (2.2 Ohm/1000ft) | | | | | | |

High Frequency (Nominal/Typical)

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

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.Install130 mm (5.1 in)196 min | |
|--|----------------------------|
| Max. Pull Tension: | 500 N (110 lbf) |
| Bulk Cable Weight: | 322 kg/km (216 lbs/1000ft) |

Standards and Compliance

| Environmental Suitability: | IndoorIndoor/OutdoorOutdoorIndoor/Outdoor - Euroclass Eca, Indoor, Outdoor, Non-Halogenated, Sunlight Resistance, Oil Resistance |
|-------------------------------------|--|
| Flammability / Reaction to Fire: | IEC 60332-1-2, 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 |
| l'atam. | |

History

Update and Revision: Revision Number: 0.256 Revision Date: 04-07-2025

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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