



Product: [9538ELW](#)

Life Cycle Status: Capability

RS232, #24-8c, FRNC/LSZH, O/A Foil, FRNC/LSZH Jkt, Cca

Product Description

Computer EIA RS-232 Cable, 24 AWG stranded (7x32) tinned copper conductors, FRNC insulation, overall Beldfoil® shield (100% coverage), 24 AWG stranded tinned copper drain wire, FRNC jacket.

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Suitable Applications: | RS-232 Applications; Computer Communications; Low Voltage Analog Signals (4-20mA, 0-10V, ...); Low Voltage Digital Control (24V, ...); Line Level Audio; Panel Wiring |
|------------------------|---|

Construction Details

| Element | No. of Elements | Size | Stranding | Material |
|--------------|-----------------|--------|-----------|--------------------|
| Conductor(s) | 8 | 24 AWG | 7x32 | TC - Tinned Copper |

| Element | Material | Nom. Insulation Diameter | Color Code |
|--------------|---|--------------------------|---|
| Conductor(s) | LSZH - Low Smoke Zero Halogen (Flame Retardant) | 1.25 mm (0.0492 in) | red, black, white, Green, brown, blue, orange, yellow |

| Shield Type | Material | Coverage | Drainwire Type |
|-------------|-------------------------|----------|------------------|
| Tape | Bi-Laminate (Alum+Poly) | 100% | 24 AWG (7x32) TC |

| Material | Nom. Thickness | Nom. Diameter |
|---|--------------------|------------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 0.98 mm (0.039 in) | 6.2 mm (0.24 in) |

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|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 6.20 mm (0.244 in) |
|-----------------------------------|--------------------|

Electrical Characteristics

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current |
|--------------|---------------------------|-------------------------------|---|--------------------------------|
| Conductor(s) | 82 Ohm/km (25 Ohm/1000ft) | 100 pF/m (30 pF/ft) | 190 pF/m (58 pF/ft) | 1.5 Amps per Conductor at 25°C |

Mechanical Characteristics

| Operating | Installation | Storage |
|----------------|----------------|----------------|
| -20°C to +70°C | -20°C To +70°C | -30°C To +70°C |

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 31 mm (1.2 in) | 62 mm (2.4 in) |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 100 N (22 lbf) |
|--------------------|----------------|

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor - Euroclass Cca, Indoor |
| Flammability / Reaction to Fire: | IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: Cca-s1,d1,a1 |
| CENELEC Compliance: | EN 50290-2-27 |
| European Halogen Free Standards: | IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3 |
| UK Regulation Compliance: | UKCA Mark |

Product Notes

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| Notes: | This is a preliminary Technical Design Specification (TDS) which is subject to modification throughout the prototyping phase. The minimum business quantity to offer is 6km for the first order. This product will have Chrome as standard color and 305mt or 500mt as standard put-ups. Additional options for colors and put-ups are available on special request. The estimated production lead time for the first order will be similar to the production lead time of 9536NH plus extra 6-7 weeks. Please liaise with your Belden representative for confirmation. |
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History

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| Update and Revision: | Revision Number: 0.4 Revision Date: 09-26-2024 |
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