



REPRESENTATIVE IMAGE

Product: [9730](#)

RS232/422 Low Cap, #24-3pr, FPE, Individ. Foil, PVC Jkt, CM, 100Ω

Product Description

Computer EIA RS-232/422, Digital Audio Cable, 3-Pair, 24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, individually shielded with Beldfoil® (100% coverage), 24 AWG stranded tinned copper drain wire, overall PVC jacket.

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | RS-422 applications; computer communications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); digital audio; panel wiring |
|------------------------|--|

Construction Details

Conductor

| Element | Number of Element | Size | Stranding | Material |
|---------|-------------------|--------|-----------|--------------------|
| Pair(s) | 3 | 24 AWG | 7x32 | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Thickness | Color Code |
|---------|--------------------------|--------------------|---|
| Pair(s) | PE - Polyethylene (Foam) | 0.019 in (0.48 mm) | Black & Red, Black & White, Black & Green |

Inner Shield

| Element | Shield Type | Material | Coverage | Drainwire Type | Notes |
|---------|-------------|-------------------------|----------|------------------|-----------|
| Pair(s) | Tape | Bi-Laminate (Alum+Poly) | 100% | 24 AWG (7x32) TC | each pair |

Outer Shield

| Material |
|-----------|
| No Shield |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter |
|--------------------------|-------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.048 in (1.2 mm) | 0.334 in (8.48 mm) |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.334 in (8.48 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Characteristic Impedance | Nom. Velocity of Prop. | Max. Current |
|---------|---------------------------|-------------------------------|---|-------------------------------|------------------------|--------------------------------|
| Pair(s) | 24 Ohm/1000ft (79 Ohm/km) | 12.5 pF/ft (41.0 pF/m) | 23.2 pF/ft (76.1 pF/m) | 100 Ohm | 76% | 2.5 Amps per Conductor at 25°C |

Voltage

| UL Voltage Rating |
|--------------------------------|
| 300 V (CM), 30 V (UL AWM 2919) |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|--------------------------|----------------|
| 80°C (UL AWM Style 2919) | -20°C to +80°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 3.3 in (84 mm) | 3.3 in (84 mm) |

| | |
|--------------------|--------------------------|
| Max. Pull Tension: | 51 lbs |
| Bulk Cable Weight: | 42 lbs/1000ft (63 kg/km) |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor |
| Flammability / Reaction to Fire: | UL1685 UL Loading, FT1, IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: Eca |
| NEC / UL Compliance: | Article 800, CM |
| AWM Compliance: | 2919 |
| CEC / C(UL) Compliance: | CM |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Other Standard Compliance(s): | P-MW-MS285 |
| Plenum Number: | 89730 |

Product Notes

| | |
|--------|---|
| Notes: | Datalen« insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight. |
|--------|---|

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.398 Revision Date: 12-15-2021 |
|----------------------|--|

Variants

| Item # | Color | Putup Type | Length | UPC/EAN |
|---------------|--------|------------|-----------|---------------|
| 9730.0030 | Chrome | Reel | 30 m | 8719605022592 |
| 9730 060100 | Chrome | Reel | 100 ft | 612825257608 |
| 9730.00152 | Chrome | Reel | 152 m | 8719605022585 |
| 9730.00305 | Chrome | Reel | 305 m | 8719605022608 |
| 9730 060500 | Chrome | Reel | 500 ft | 612825257639 |
| 9730 0601000 | Chrome | Reel | 1,000 ft | 612825257615 |
| 9730.001000 | Chrome | Reel | 1,000 m | 8719605022578 |
| 9730 0605000 | Chrome | Reel | 5,000 ft | 612825257646 |
| 9730 06010000 | Chrome | Reel | 10,000 ft | 612825257622 |

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