



Product: [8142](#)

RS232/485 Low Cap, #28-12.5pr, FPE, O/A Foil+Braid, PVC Jkt, CL2, 120Ω

Product Description

Computer EIA RS-232/485 Cable, 12.5-Pair, 28 AWG stranded (7x36) tinned copper conductors, Datalene® insulation, twisted pairs, overall Beldfoil® + tinned copper braid shield (65% coverage), tinned copper drain wire, PVC jacket.

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | RS-232 extended distance applications; RS-485 applications; computer communications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); line level audio; panel wiring |
|------------------------|--|

Construction Details

Conductor

| Element | Number of Element | Size | Stranding | Material |
|--------------|-------------------|--------|-----------|--------------------|
| Pair(s) | 12 | 28 AWG | 7x36 | TC - Tinned Copper |
| Conductor(s) | 1 | 28 AWG | 7x36 | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Thickness | Color Code |
|--------------|--------------------------|----------------------|--|
| Pair(s) | PE - Polyethylene (Foam) | 0.0145 in (0.368 mm) | White/Blue Stripe & Blue/White Stripe, White/Orange Stripe & Orange/White Stripe, White/Green Stripe & Green/White Stripe, White/Brown Stripe & Brown/White Stripe, White/Gray Stripe & Gray/White Stripe, Red/Blue Stripe & Blue/Red Stripe, Red/Orange Stripe & Orange/Red Stripe, Red/Green Stripe & Green/Red Stripe, Red/Brown Stripe & Brown/Red Stripe, Red/Gray Stripe & Gray/Red Stripe, Black/Blue Stripe & Blue/Black Stripe, Black/Orange Stripe & Orange/Black Stripe, Gray |
| Conductor(s) | PE - Polyethylene (Foam) | 0.0145 in (0.368 mm) | Gray |

Outer Shield

| Shield Type | Material | Coverage | Drainwire Type |
|-------------|-------------------------|----------|------------------|
| Tape | Bi-Laminate (Alum+Poly) | 100% | 28 AWG (7x36) TC |
| Braid | Tinned Copper (TC) | 65% | |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter |
|--------------------------|--------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.035 in (0.89 mm) | 0.389 in (9.88 mm) |

Overall Cable Diameter (Nominal): 0.389 in (9.88 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) | 65 Ohm/1000ft (210 Ohm/km) | 11 pF/ft (36 pF/m) | 20 pF/ft (66 pF/m) | 120 Ohm | 78% | 0.7 Amps per Conductor at 25°C |

Voltage

| UL Voltage Rating |
|--------------------|
| 30 V (UL AWM 2919) |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|--------------------|----------------|
| 80°C (UL AWM 2919) | -30°C to +80°C |

Bulk Cable Weight: 60 lbs/1000ft (89 kg/km)

Standards and Compliance

| | |
|----------------------------------|--|
| Flammability / Reaction to Fire: | UL1685 UL Loading, IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: Eca |
| NEC / UL Compliance: | CL2 |
| AWM Compliance: | 2919 |
| European Directive Compliance: | EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |

Product Notes

Notes: Datalene® 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: 0.322 Revision Date: 12-15-2021

Variants

| Item # | Color | Putup Type | Length | UPC |
|--------------|--------|------------|----------|--------------|
| 8142 060500 | Chrome | Reel | 500 ft | 612825195450 |
| 8142 0601000 | Chrome | Reel | 1,000 ft | 612825195443 |

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