



Product: [9808](#)

RS232/422 Low Cap, #28-7pr, PP, O/A Foil+Braid, PVC Jkt, CL2, 100Ω

Product Description

Computer EIA RS-232/422 Cable, 7-Pair, 28 AWG stranded (7x36) tinned copper conductors, polypropylene insulation, overall Beldfoil® (100% coverage) + tinned copper braid shield (90% coverage), 28 AWG stranded tinned copper drain wire, PVC jacket.

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | RS-232 extended distance applications; RS-422 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 | No. of Elements | Size | Stranding | Material |
|---------|-----------------|--------|-----------|--------------------|
| Pair(s) | 7 | 28 AWG | 7x36 | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|---------|--------------------|--------------------|--------------------------|--|
| Pair(s) | PP - Polypropylene | 0.009 in (0.23 mm) | 0.033 in (0.84 mm) | Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown, Black & Orange |

Outer Shield

| Shield Type | Material | Coverage | Drainwire Type |
|-------------|-------------------------|----------|------------------|
| Tape | Bi-Laminate (Alum+Poly) | 100% | 28 AWG (7x36) TC |
| Braid | Tinned Copper (TC) | 90% | |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter |
|--------------------------|--------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.035 in (0.89 mm) | 0.256 in (6.50 mm) |

Overall Cable Diameter (Nominal): 0.256 in (6.50 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) | 73.5 Ohm/1000ft | 16.5 pF/ft (54.1 pF/m) | 27.5 pF/ft (90.2 pF/m) | 100 Ohm | 66% | 0.9 Amps per Conductor at 25°C |

Voltage

| UL Voltage Rating |
|-------------------|
| 30 V |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|----------------|
| 60°C | -30°C to +60°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 2.6 in (66 mm) | 2.6 in (66 mm) |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 71 lbs (32 kg) |
| Bulk Cable Weight: | 41 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|--|
| Environmental Suitability: | Indoor |
| Flammability / Reaction to Fire: | UL 1685 FT4 Loading |
| CPR Compliance: | CPR Euroclass: Eca |
| NEC / UL Compliance: | Article 725, CL2 |
| AWM Compliance: | AWM 2960 |
| European Directive Compliance: | EU CE Mark, EU Directive 2012/19/EU (WEEE) |
| UK Regulation Compliance: | UKCA Mark |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.493 Revision Date: 12-22-2023 |
|----------------------|--|

Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|--------------|--------|------------|----------|--------------|----------|
| 9808 060100 | Chrome | Reel | 100 ft | 612825258872 | |
| 9808 060500 | Chrome | Reel | 500 ft | 612825258896 | |
| 9808 0601000 | Chrome | Reel | 1,000 ft | 612825258889 | C |

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