



**Product:** [9806](#)

RS232/422 Low Cap, #28-4pr, PP, O/A Foil+Braid, PVC Jkt, CL2, 100Ω

## Product Description

Computer EIA RS-232/422 Cable, 4-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 | Number of Element | AWG | Stranding | Material           |
|---------|-------------------|-----|-----------|--------------------|
| Pair(s) | 4                 | 28  | 7x36      | TC - Tinned Copper |

#### Insulation

| Element | Material           | Thickness | Color Code  |
|---------|--------------------|-----------|---|
| Pair(s) | PP - Polypropylene | 0.009 in  | Black & Red, Black & White, Black & Green, Black & Blue |

#### Outer Shield Material

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

#### Outer Jacket Material

| Material                 | Thickness | Nom. Diameter |
|--------------------------|-----------|---------------|
| PVC - Polyvinyl Chloride | 0.035 in  | 0.237 in      |

Cable Diameter (Nominal): 0.237 in

### Electrical Characteristics

#### Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Characteristic Impedance | Nom. Velocity of Prop. | Max. Current                   |
|---------|--------------------|-------------------------------|---|--------------------------|------------------------|--------------------------------|
| Pair(s) | 64.9 Ohm/1000ft    | 15.5 pF/ft                    | 27.5 pF/ft                                      | 100 Ohm                  | 66%                    | 0.9 Amps per Conductor at 25°C |

Nom Outer Shield DCR: 4 Ohm/1000ft

#### Voltage

| UL Voltage Rating  |
|--------------------|
| 30 V (UL AWM 2960) |

### Mechanical Characteristics

#### Temperature

| UL Rating          | Operating      |
|--------------------|----------------|
| 60°C (UL AWM 2960) | -20°C to +60°C |

## Bend Radius

### Stationary Min.

2.5 in

Max. Pull Tension: 54 lbs

Bulk Cable Weight: 35 lbs/1000ft

## Standards and Compliance

Environmental Suitability: Indoor

Flammability / Fire Resistance: UL1685 UL Loading, IEC 60332-1-2

NEC / UL Compliance: CL2

AWM Compliance: 2960

CPR Euroclass: Eca

European Directive Compliance: EU CE Mark, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)

APAC Compliance: China RoHS II (GB/T 26572-2011)

## History

Update and Revision: Revision Number: 0.312 Revision Date: 02-16-2021

© 2021 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.