



**Product:** [9805](#)

RS232/422 Low Cap, #28-3pr, PO, O/A Foil+Braid, PVC Jkt, CL2, 100Ω

## Product Description

Computer EIA RS-232/422 Cable, 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

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Pairs
28	7x36	TC - Tinned Copper	3

Conductor Count: 6

#### Insulation

Material	Nominal Wall Thickness
PP - Polypropylene	0.009 in

#### Color Chart

Number	Color
1	Black & Red
2	Black & White
3	Black & Green

#### Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	28	7x36 mm
Braid	2	TC - Tinned Copper		90 %			

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.222 in	0.035 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
64.9 Ohm/1000ft	4.2 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
15.5 pF/ft	27.5 pF/ft

#### Inductance

Nominal Inductance
0.19 μH/ft

#### Impedance

**Nominal Characteristic Impedance**

100 Ohm

**Delay****Max. Delay Skew** | **Nominal Velocity of Propagation (VP) [%]**

66 ns/100m

66 %

**Current****Max. Recommended Current [A]**

0.9 Amps per conductor @ 25°C A

**Voltage****UL Description** | **UL Voltage Rating**

UL AWM Style 2960 | 30 V RMS (UL AWM Style 2960)

CL2 | 150 V RMS (CL2)

**Temperature Range**

UL Temp Rating: 60°C (UL AWM Style 2960)

Operating Temp Range: -20°C To +60°C

**Mechanical Characteristics**

Bulk Cable Weight: 31 lbs/1000ft

Max Recommended Pulling Tension: 44 lbs

Min Bend Radius/Minor Axis: 2.25 in

**Standards**

NEC/(UL) Specification: CL2

UL AWM Style: 2960 (30 V 60°C)

CPR Euroclass: Eca

**Applicable Environmental and Other Programs**

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2003/96/EC (BFR): Yes

EU Directive 2011/65/EU (ROHS II): Yes

EU Directive 2012/19/EU (WEEE): Yes

EU Directive Compliance: EU Directive 2003/11/EC (BFR)

EU CE Mark: Yes

EU RoHS Compliance Date (yyyy-mm-dd): 2004-01-01

CA Prop 65 (CJ for Wire &amp; Cable): Yes

MII Order #39 (China RoHS): Yes

**Flammability, LSOH, Toxicity Testing**

UL Flammability: UL1685 UL Loading

ISO/IEC Flammability: IEC 60332-1-2

UL voltage rating: 30 V RMS (UL AWM Style 2960)

**Plenum/Non-Plenum**

Plenum (Y/N): No

**Part Number****Variants**

Item #	Color	UPC	Length	Footnote
9805 060100	Chrome	612825258780	100 ft	
9805 0601000	Chrome	612825258797	1,000 ft	C
9805 060500	Chrome	612825258803	500 ft	C

Footnote: C - CRATE REEL PUT-UP.

**History**

Update and Revision: Revision Number: 0.246 Revision Date: 08-22-2019

© 2020 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.