

## 9805 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422



For more Information  
please call

1-800-Belden1

**General Description:**

28 AWG stranded (7x36) TC conductors, polypropylene insulation, overall Beldfoil® (100% coverage) + TC braid shield (90% coverage), 28 AWG stranded TC drain wire, PVC jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material
3	28	7x36	TC - Tinned Copper

Total Number of Conductors: 6

**Insulation****Insulation Material:**

Insulation Material	Wall Thickness (mm)
PP - Polypropylene	0.229

**Outer Shield****Outer Shield Material:**

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	90

**Outer Shield Drain Wire AWG:**

AWG	Stranding	Drain Wire Conductor Material
28	7x36	TC - Tinned Copper

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.889

**Overall Cable**

Overall Nominal Diameter: 5.639 mm

**Pair****Pair Color Code Chart:**

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

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +60°C
UL Temperature Rating:	60°C (UL AWM Style 2960)
Bulk Cable Weight:	46.134 Kg/Km
Max. Recommended Pulling Tension:	195.721 N
Min. Bend Radius/Minor Axis:	57.150 mm

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## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

NEC/(UL) Specification:	CL2
AWM Specification:	UL Style 2960 (30 V 60°C)
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

## Flame Test

UL Flame Test:	UL1685 UL Loading
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## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

## Nom. Characteristic Impedance:

Impedance (Ohm)

100

## Nom. Inductance:

Inductance (µH/m)

0.62339

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

50.8555

## Nom. Capacitance Cond. to Other Conductor &amp; Shield:

Capacitance (pF/m)

90.2275

## Nominal Velocity of Propagation:

VP (%)

66

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

212.937

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

13.7802

## Max. Operating Voltage - UL:

Voltage	Description
30 V RMS	UL AWM Style 2960
150 V RMS	CL2

## Max. Recommended Current:

Current

.9 Amps per conductor @ 25°C

## Put Ups and Colors:

## METRIC MEASUREMENT VERSION

## 9805 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9805 060100	30 MT	1.769 KG	CHROME		3 PR #28 PP SH PVC
9805 0601000	305 MT	15.876 KG	CHROME	C	3 PR #28 PP SH PVC
9805 060500	152 MT	7.938 KG	CHROME	C	3 PR #28 PP SH PVC

**Notes:**

C = CRATE REEL PUT-UP.

## Test Reports

**a) UL**

- i) UL Test Reports are available on-line through the UL Client Document Access web portal.
- ii) UL Inspection Reports are also available through the UL Client Document Access web portal.

**b) CSA**

- i) CSA "Descriptive Report and Test Results" documents are available on the CSA Gateway Portal.
- ii) CSA Inspection Reports are maintained on the CSA issued 'flash drive' at each manufacturing location.

\* other test data may be available if requested at time of order.

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