# **Detailed Specifications & Technical Data**

## **ENGLISH MEASUREMENT VERSION**



# 9812 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422



For more Information please call

1-800-Belden1



## **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 | <b>Conductor Material</b> |
|---------|-----|-----------|---------------------------|
| 12      | 28  | 7x36      | TC - Tinned Copper        |

#### Insulation

## Insulation Material:



#### **Outer Shield**

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

| Layer # | Outer Shield Trade Name | Type  | Outer Shield Material        | Coverage (%) |
|---------|-------------------------|-------|------------------------------|--------------|
| 1       | Beldfoil®               | Таре  | 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    |
|-------|--------------------|
| PVC - | Polyvinyl Chloride |

## **Overall Cable**

Overall Nominal Diameter: 0.319 in.

# Pair

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

| Number | Color          |
|--------|----------------|
| 1      | Black & Red    |
| 2      | Black & White  |
| 3      | Black & Green  |
| 4      | Black & Blue   |
| 5      | Black & Yellow |
| 6      | Black & Brown  |
| 7      | Black & Orange |
| 8      | Red & White    |
| 9      | Red & Green    |
| 10     | Red & Blue     |
| 11     | Red & Yellow   |
| 12     | Red & Brown    |

## Pair Lay Length & Direction:

| Lay Length | (in.) | Twists/ft. | (twist/ft) |
|------------|-------|------------|------------|
| 0.600      |       | 20.000     |            |

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| Operating Temperature Range:              | -20°C To +60°C            |  |  |
|---|---------------------------|--|--|
| UL Temperature Rating:                    | 60°C (UL AWM Style 2960)  |  |  |
| Bulk Cable Weight:                        | 59 lbs/1000 ft.           |  |  |
| Max. Recommended Pulling Tension:         | 105 lbs.                  |  |  |
| Min. Bend Radius (Install)/Minor Axis:    | 3.200 in.                 |  |  |
| pplicable Specifications and Agency Co    | ompliance (Overall)       |  |  |
| Applicable Standards & Environmental Prog | grams                     |  |  |
| 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         |  |  |
| Plenum/Non-Plenum                         |                           |  |  |
| Plenum (Y/N):                             | No                        |  |  |

Nom. Characteristic Impedance:

| Impedance | (Ohm) |
|-----------|-------|
| 100       |       |

Nom. Inductance:

| Inductance | (µH/ft) |
|------------|---------|
| .19        |         |

Nom. Capacitance Conductor to Conductor:

| Capacitance (pF/ft) |
|---------------------|
| 15.5                |

Nom. Capacitance Cond. to Other Conductor & Shield:



**Nominal Velocity of Propagation:** 



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:

| DCR @ 20°C | (Ohm/1000 | ft) |
|------------|-----------|-----|
| 2.8        |           |     |

Max. Operating Voltage - UL:

Voltage

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## 9812 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422

30 V RMS (UL AWM Style 2960); 150 V RMS

#### Max. Recommended Current:

Current

.65 Amps per conductor @ 25°C

#### **Related Documents:**

No related documents are available for this product

## **Put Ups and Colors:**

| Item #       | Putup    | Ship Weight | Color  | Notes | Item Desc           |
|--------------|----------|-------------|--------|-------|---------------------|
| 9812 060100  | 100 FT   | 6.700 LB    | CHROME |       | 12 PR #28 PP SH PVC |
| 9812 0601000 | 1,000 FT | 62.000 LB   | CHROME | С     | 12 PR #28 PP SH PVC |
| 9812 060500  | 500 FT   | 31.000 LB   | CHROME | С     | 12 PR #28 PP SH PVC |

#### Notes:

C = CRATE REEL PUT-UP.

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