

METRIC MEASUREMENT VERSION

### 9806 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 (Over   |   |  |  |  |  |  |
|--|---|--|--|--|--|--|
| Physical Characteristics (Ove  | raii)                                     |  |  |  |  |  |
| Conductor<br>AWG:  |   |  |  |  |  |  |
| # Pairs AWG Stranding Conduc   | stor Material                             |  |  |  |  |  |
| 4 28 7x36 TC - Tin   | ned Copper                                |  |  |  |  |  |
| Total Number of Conductors:  | 8   |  |  |  |  |  |
| Insulation   |   |  |  |  |  |  |
| Insulation Material:   |   |  |  |  |  |  |
| Insulation Material     Wall Thicknes       PP - Polypropylene     0.229 | ss (mm)                                   |  |  |  |  |  |
| Outer Shield<br>Outer Shield Material:                                   |   |  |  |  |  |  |
| Layer # Outer Shield Trade Name  | e Type Outer Shield Material Coverage (%) |  |  |  |  |  |
| 1 Beldfoil®  | Tape Aluminum Foil-Polyester Tape 100     |  |  |  |  |  |
| 2  | Braid TC - Tinned Copper 90               |  |  |  |  |  |
| Outer Shield Drain Wire AWG:   |   |  |  |  |  |  |
| AWGStrandingDrain Wire Cont287x36TC - Tinned Cop                         |   |  |  |  |  |  |
| Outer Jacket   |   |  |  |  |  |  |
| Outer Jacket Material:   |   |  |  |  |  |  |
| Outer Jacket Material Nom. Wa  | all Thickness (mm)                        |  |  |  |  |  |
| PVC - Polyvinyl Chloride 0.889   |   |  |  |  |  |  |
| Overall Cable  |   |  |  |  |  |  |
| Overall Nominal Diameter:  | 6.020 mm                                  |  |  |  |  |  |
| Pair   |   |  |  |  |  |  |
| Pair Color Code Chart:   |   |  |  |  |  |  |
| Number Color   |   |  |  |  |  |  |
| 1 Black & Red  |   |  |  |  |  |  |
| 2 Black & White  |   |  |  |  |  |  |
| 3 Black & Green   4 Black & Blue   |   |  |  |  |  |  |
|  |   |  |  |  |  |  |
| Mechanical Characteristics (C  | )verall)                                  |  |  |  |  |  |
| Operating Temperature Range:   | -20°C To +60°C                            |  |  |  |  |  |
| UL Temperature Rating:   | 60°C (UL AWM Style 2960)                  |  |  |  |  |  |
| Bulk Cable Weight:   | 52.087 Kg/Km                              |  |  |  |  |  |
| Max. Recommended Pulling Tens  | sion: 240.203 N                           |  |  |  |  |  |
| Min. Bend Radius/Minor Axis:   | 63.500 mm                                 |  |  |  |  |  |
| Applicable Specifications and  | Agency Compliance (Overall)               |  |  |  |  |  |
| Applicable Standards & Environn  | nental Programs                           |  |  |  |  |  |
| NEC/(UL) Specification:  | CL2                                       |  |  |  |  |  |
| AWM Specification:   | UL Style 2960 (30 V 60°C)                 |  |  |  |  |  |
| EU Directive 2011/65/EU (ROHS II   | ): Yes                                    |  |  |  |  |  |
| EU CE Mark:  | Yes                                       |  |  |  |  |  |
| EU Directive 2000/53/EC (ELV):   | Yes                                       |  |  |  |  |  |
|  |   |  |  |  |  |  |

# **Detailed Specifications & Technical Data**



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| 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                |
| Electrical Characteristics (Overall)   |                   |
| Nom. Characteristic Impedance:   |                   |
| Impedance (Ohm)<br>100   |                   |
| Nom. Inductance:   |                   |
| Inductance (µH/m)  |                   |
| 0.62339  |                   |
| Nom. Capacitance Conductor to Conductor:   |                   |
| Capacitance (pF/m)<br>50.8555  |                   |
| Nom. Capacitance Cond. to Other Conductor & Shield:                                  |                   |
| Capacitance (pF/m)<br>90.2275  |                   |
| Nominal Velocity of Propagation:   |                   |
| <b>VP (%)</b><br>66  |                   |
| Nom. Conductor DC Resistance:  |                   |
| DCR @ 20°C (Ohm/km)<br>212.937   |                   |
| Nominal Outer Shield DC Resistance:  |                   |
| DCR @ 20°C (Ohm/km)<br>13.124  |                   |
| Max. Operating Voltage - UL:   |                   |
| Voltage     Description       30 V RMS     UL AWM Style 2960       455 V DMD     0.0 |                   |
| 150 V RMS CL2  |                   |
| Max. Recommended Current:<br>Current<br>.9 Amps per conductor @ 25°C                 |                   |
| Put Ups and Colors:  |                   |
|  |                   |

| Item #       | Putup    | Ship Weight | Color  | Notes | Item Desc          |
|--------------|----------|-------------|--------|-------|--------------------|
| 9806 060100  | 100 FT   | 4.300 LB    | CHROME |       | 4 PR #28 PP SH PVC |
| 9806 0601000 | 1,000 FT | 39.000 LB   | CHROME | С     | 4 PR #28 PP SH PVC |
| 9806 060500  | 500 FT   | 19.500 LB   | CHROME |       | 4 PR #28 PP SH PVC |

#### Notes:

C = CRATE REEL PUT-UP.

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