

METRIC MEASUREMENT VERSION



9808 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 |
|---------|-----|-----------|--------------------|
| 7 | 28 | 7x36 | TC - Tinned Copper |

Total Number of Conductors: 14

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: 6.502 mm

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 |

Mechanical Characteristics (Overall)

Storage Temperature Range: -35°C To +60°C

Operating Temperature Range: -30°C To +60°C

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

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| | |
|--|--------------|
| Bulk Cable Weight: | 61.016 Kg/Km |
| Max. Recommended Pulling Tension: | 315.822 N |
| Min. Bend Radius/Minor Axis: | 69.850 mm |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental 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 |
| 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) |
| 100 |

Nom. Inductance:

| |
|--------------------------|
| Inductance (µH/m) |
| 0.62339 |

Nom. Capacitance Conductor to Conductor:

| |
|---------------------------|
| Capacitance (pF/m) |
| 50.8555 |

Nom. Capacitance Cond. to Other Conductor & 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) |
| 12.1397 |

Max. Operating Voltage - UL:

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

Max. Recommended Current:

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Current

0.9 Amps per conductor @ 25°C

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------------|----------|-------------|--------|-------|--------------------------|
| 9808 060100 | 100 FT | 4.900 LB | CHROME | | BRAID 7 PR #28 PP SH PVC |
| 9808 0601000 | 1,000 FT | 44.000 LB | CHROME | C | BRAID 7 PR #28 PP SH PVC |
| 9808 060500 | 500 FT | 22.000 LB | CHROME | | BRAID 7 PR #28 PP SH PVC |

Notes:

C = CRATE REEL PUT-UP.

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