

9813 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 |
|---------|-----|-----------|--------------------|
| 13 | 28 | 7x36 | TC - Tinned Copper |

Total Number of Conductors: 26

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: 8.534 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 |
| 8 | Red & White |
| 9 | Red & Green |
| 10 | Red & Blue |
| 11 | Red & Yellow |
| 12 | Red & Brown |
| 13 | Red & 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) |
| Bulk Cable Weight: | 92.268 Kg/Km |
| Max. Recommended Pulling Tension: | 515.991 N |

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Min. Bend Radius/Minor Axis: 88.900 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)

7.2182

Max. Operating Voltage - UL:

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

Max. Recommended Current:

Current

.65 Amps per conductor @ 25°C

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------------|--------|-------------|--------|-------|---------------------|
| 9813 060100 | 30 MT | 3.175 KG | CHROME | | 13 PR #28 PP SH PVC |
| 9813 0601000 | 305 MT | 29.937 KG | CHROME | C | 13 PR #28 PP SH PVC |
| 9813 060500 | 152 MT | 15.422 KG | CHROME | C | 13 PR #28 PP SH PVC |

Notes:

C = CRATE REEL PUT-UP.

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