

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 (in.) |
|---------------------|----------------------|
| PP - Polypropylene | 0.009 |

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 (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | 0.035 |

Overall Cable

Overall Nominal Diameter: 0.336 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 |
| 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: | 62 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 116 lbs. |

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Min. Bend Radius/Minor Axis: 3.500 in.

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/ft) | .19 |
|--------------------|-----|

Nom. Capacitance Conductor to Conductor:

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

Nom. Capacitance Cond. to Other Conductor & Shield:

| | |
|---------------------|------|
| Capacitance (pF/ft) | 27.5 |
|---------------------|------|

Nominal Velocity of Propagation:

| | |
|--------|----|
| VP (%) | 66 |
|--------|----|

Nom. Conductor DC Resistance:

| | |
|--------------------------|------|
| DCR @ 20°C (Ohm/1000 ft) | 64.9 |
|--------------------------|------|

Nominal Outer Shield DC Resistance:

| | |
|--------------------------|-----|
| DCR @ 20°C (Ohm/1000 ft) | 2.2 |
|--------------------------|-----|

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 | 100 FT | 7.000 LB | CHROME | | 13 PR #28 PP SH PVC |
| 9813 0601000 | 1,000 FT | 66.000 LB | CHROME | C | 13 PR #28 PP SH PVC |
| 9813 060500 | 500 FT | 34.000 LB | CHROME | C | 13 PR #28 PP SH PVC |

Notes:

C = CRATE REEL PUT-UP.

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