

## 9873 Multi-Conductor - Audio, Control and Instrumentation Cable

 For more Information  
 please call

1-800-Belden1

**General Description:**

20 AWG stranded (7x28) TC conductors, polypropylene insulation, twisted pairs, individually shielded w/Beldfoil® (100% coverage), 22 AWG stranded TC drain wire, overall PVC jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 3       | 20  | 7x28      | TC - Tinned Copper |

**Total Number of Conductors:** 6
**Insulation****Insulation Material:**

| Insulation Material | Wall Thickness (mm) |
|---------------------|---------------------|
| PP - Polypropylene  | 0.381               |

**Inner Shield****Inner Shield Material:**

| Inner Shield Trade Name | Type | Inner Shield Material        | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil® (Z-Fold®)     | Tape | Aluminum Foil-Polyester Tape | 100          |

**Inner Shield Drain Wire AWG:**

| AWG |
|-----|
| 22  |

**Inner Shield Drain Wire Stranding:** 19x34

**Inner Shield Drain Wire Conductor Material:** 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:** 8.661 mm
**Pair****Pair Color Code Chart:**

| Number | Color         |
|--------|---------------|
| 1      | Black & Red   |
| 2      | Black & White |
| 3      | Black & Green |

**Pair Lay Length & Direction:**

| Lay Length (mm) | Twists (twist/m) | Direction |
|-----------------|------------------|-----------|
| 44.450          | 22.639           | Left Hand |

**Mechanical Characteristics (Overall)**
**Operating Temperature Range:** -20°C To +80°C

**UL Temperature Rating:** 80°C (UL AWM Style 2919)

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|                                   |              |
|-----------------------------------|--------------|
| Bulk Cable Weight:                | 84.827 Kg/Km |
| Max. Recommended Pulling Tension: | 471.509 N    |
| Min. Bend Radius/Minor Axis:      | 88.900 mm    |

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

|                                       |                           |
|---------------------------------------|---------------------------|
| NEC/(UL) Specification:               | CM                        |
| NEC Articles:                         | 800                       |
| CEC/C(UL) Specification:              | CM                        |
| AWM Specification:                    | UL Style 2919 (30 V 80°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 |
| CSA Flame Test: | FT1               |

**Suitability**

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

**Plenum/Non-Plenum**

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

|                 |
|-----------------|
| Impedance (Ohm) |
| 50              |

**Nom. Inductance:**

|                   |
|-------------------|
| Inductance (µH/m) |
| 0.59058           |

**Nom. Capacitance Conductor to Conductor:**

|                    |
|--------------------|
| Capacitance (pF/m) |
| 98.43              |

**Nom. Capacitance Cond. to Other Conductor & Shield:**

|                    |
|--------------------|
| Capacitance (pF/m) |
| 180.455            |

**Nominal Velocity of Propagation:**

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

**Nom. Conductor DC Resistance:**

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 34.4505             |

|                                                     |               |
|-----------------------------------------------------|---------------|
| Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: | 45.934 Ohm/km |
|-----------------------------------------------------|---------------|

## 9873 Multi-Conductor - Audio, Control and Instrumentation Cable

## Max. Operating Voltage - UL:

| Voltage   | Description |
|-----------|-------------|
| 300 V RMS | UL type CM  |
| 30 V RMS  | UL AWM 2919 |

## Max. Recommended Current:

| Description          | Current                               |
|----------------------|---------------------------------------|
| 10C Temperature Rise | 2.7 Amps per conductor @ 25°C ambient |

## Put Ups and Colors:

| Item #       | Putup    | Ship Weight | Color  | Notes | Item Desc          |
|--------------|----------|-------------|--------|-------|--------------------|
| 9873 060100  | 100 FT   | 6.600 LB    | CHROME |       | 3 FS PR #20 PP PVC |
| 9873 0601000 | 1,000 FT | 61.000 LB   | CHROME | C     | 3 FS PR #20 PP PVC |
| 9873 060250  | 250 FT   | 16.250 LB   | CHROME | C     | 3 FS PR #20 PP PVC |
| 9873 060500  | 500 FT   | 32.000 LB   | CHROME | C     | 3 FS PR #20 PP PVC |
| 9873 0605000 | 5,000 FT | 315.000 LB  | CHROME |       | 3 FS PR #20 PP PVC |

## Notes:

C = CRATE REEL PUT-UP.

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