

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

For more Information  
please call

1-800-Belden1

**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 |

**Insulation****Insulation Material:**

| Insulation Material |
|---------------------|
| PP - Polypropylene  |

**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    |
|--------------------------|
| PVC - Polyvinyl Chloride |

**Overall Cabling**

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/ft. (twist/m) |
|-----------------|----------------------|
| 44.449825       | 22.475               |

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -20°C To +80°C

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

Bulk Cable Weight: 82.893 Kg/Km

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|                                   |           |
|-----------------------------------|-----------|
| Max. Recommended Pulling Tension: | 471.509 N |
|-----------------------------------|-----------|

|                                        |           |
|----------------------------------------|-----------|
| Min. Bend Radius (Install)/Minor Axis: | 83.820 mm |
|----------------------------------------|-----------|

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

|                         |    |
|-------------------------|----|
| NEC/(UL) Specification: | CM |
|-------------------------|----|

|                          |    |
|--------------------------|----|
| CEC/C(UL) Specification: | CM |
|--------------------------|----|

|                    |                           |
|--------------------|---------------------------|
| AWM Specification: | UL Style 2919 (30 V 80°C) |
|--------------------|---------------------------|

|             |     |
|-------------|-----|
| 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) |
|-----------------|

|    |
|----|
| 50 |
|----|

## Nom. Inductance:

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

|         |
|---------|
| 0.59058 |
|---------|

## Nom. Capacitance Conductor to Conductor:

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

|       |
|-------|
| 98.43 |
|-------|

## Nom. Capacitance Cond. to Other Conductor &amp; 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 |
|-----------------------------------------------------|---------------|

## Max. Operating Voltage - UL:

|         |
|---------|
| Voltage |
|---------|

|                              |
|------------------------------|
| 30 V RMS (UL AWM Style 2919) |
|------------------------------|

|                |
|----------------|
| 300 V RMS (CM) |
|----------------|

## Max. Recommended Current:

|         |
|---------|
| Current |
|---------|

|                               |
|-------------------------------|
| 2.7 Amps per conductor @ 25°C |
|-------------------------------|

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

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

| Item #       | Putup    | Ship Weight | Color  | Notes | Item Desc          |
|--------------|----------|-------------|--------|-------|--------------------|
| 9873 060100  | 30 MT    | 2.994 KG    | CHROME |       | 3 FS PR #20 PP PVC |
| 9873 0601000 | 305 MT   | 27.669 KG   | CHROME | C     | 3 FS PR #20 PP PVC |
| 9873 060250  | 76 MT    | 7.371 KG    | CHROME | C     | 3 FS PR #20 PP PVC |
| 9873 060500  | 152 MT   | 15.876 KG   | CHROME | C     | 3 FS PR #20 PP PVC |
| 9873 0605000 | 1,524 MT | 142.882 KG  | CHROME |       | 3 FS PR #20 PP PVC |

**Notes:**

C = CRATE REEL PUT-UP.

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