

## 8691 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information  
please call

1-800-Belden1

**Description:**

18 AWG stranded (16x30) tinned copper conductors, PVC insulation, twisted pairs, PVC jacket.

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

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 6       | 18  | 16x30     | TC - Tinned Copper |

**Total Number of Conductors:** 12

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

| Insulation Material      | Wall Thickness (in.) |
|--------------------------|----------------------|
| PVC - Polyvinyl Chloride | 0.013                |

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

| Inner Shield Material |
|-----------------------|
| Unshielded            |

**Outer Shield****Outer Shield Material:**

| Outer Shield Material |
|-----------------------|
| Unshielded            |

**Outer Jacket****Outer Jacket Material:**

| Outer Jacket Material    | Nom. Wall Thickness (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | .032                      |

**Overall Cable**

**Overall Nominal Diameter:** 0.433 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  |

**Mechanical Characteristics (Overall)**

|                                          |                          |
|------------------------------------------|--------------------------|
| <b>Operating Temperature Range:</b>      | -20°C To +80°C           |
| <b>Non-UL Temperature Rating:</b>        | 80°C (UL AWM Style 2464) |
| <b>Bulk Cable Weight:</b>                | 106 lbs/1000 ft.         |
| <b>Max. Recommended Pulling Tension:</b> | 269 lbs.                 |
| <b>Min. Bend Radius/Minor Axis:</b>      | 4.500 in.                |

## 8691 Multi-Conductor - Audio, Control and Instrumentation Cable

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

|                                       |                            |
|---------------------------------------|----------------------------|
| NEC/(UL) Specification:               | CMG                        |
| CEC/C(UL) Specification:              | CMG                        |
| AWM Specification:                    | UL Style 2464 (300 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): | 04/01/2005                 |
| 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 FT4 Loading |
| CSA Flame Test: | FT4                |

## Plenum/Non-Plenum

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

## Electrical Characteristics (Overall)

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

25.5

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

5.86

## Max. Operating Voltage - UL:

Voltage

300 V RMS

## Max. Recommended Current:

Current

3.4 Amps per conductor @ 20°C

## Put Ups and Colors:

| Item #       | Putup    | Ship Weight | Color  | Notes | Item Desc          |
|--------------|----------|-------------|--------|-------|--------------------|
| 8691 0601000 | 1,000 FT | 115.000 LB  | CHROME | C     | 6 PR #18 PVC FRPVC |
| 8691 060500  | 500 FT   | 58.000 LB   | CHROME | C     | 6 PR #18 PVC FRPVC |

## Notes:

C = CRATE REEL PUT-UP.

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## 8691 Multi-Conductor - Audio, Control and Instrumentation Cable

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