

## 8457 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information  
please call

1-800-Belden1

**General Description:**

22 AWG stranded (7x30) tinned copper conductors, conductors cabled, PVC insulation, PVC Jacket.

**Physical Characteristics (Overall)****Conductor**

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 12           | 22  | 7x30      | TC - Tinned Copper |

Total Number of Conductors:

12

**Insulation**

Insulation Material:

| Insulation Material      | Wall Thickness (in.) |
|--------------------------|----------------------|
| PVC - Polyvinyl Chloride | 0.011                |

**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 Cabling Color Code Chart:

| Color  |
|--------|
| White  |
| Black  |
| Blue   |
| Brown  |
| Green  |
| Gray   |
| Orange |
| Purple |
| Red    |
| Pink   |
| Tan    |
| Yellow |

Overall Nominal Diameter:

0.272 in.

**Mechanical Characteristics (Overall)**

|                                   |                          |
|-----------------------------------|--------------------------|
| Operating Temperature Range:      | -20°C To +80°C           |
| UL Temperature Rating:            | 80°C (UL AWM Style 2576) |
| Bulk Cable Weight:                | 47 lbs/1000 ft.          |
| Max. Recommended Pulling Tension: | 110 lbs.                 |
| Min. Bend Radius/Minor Axis:      | 2.750 in.                |

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

|                          |                            |
|--------------------------|----------------------------|
| NEC/(UL) Specification:  | CMG                        |
| CEC/C(UL) Specification: | CMG                        |
| AWM Specification:       | UL Style 2576 (150 V 80°C) |
| CSA Specification:       | FT4                        |

## 8457 Multi-Conductor - Audio, Control and Instrumentation Cable

|                                       |            |
|---------------------------------------|------------|
| 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): | 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. Inductance:

|                    |
|--------------------|
| Inductance (µH/ft) |
| .17                |

## Nom. Capacitance Conductor to Conductor:

|                     |
|---------------------|
| Capacitance (pF/ft) |
| 34                  |

## Nom. Conductor DC Resistance:

|                          |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 15.6                     |

## Max. Operating Voltage - UL:

| Voltage   | Description       |
|-----------|-------------------|
| 300 V RMS | CMG               |
| 150 V RMS | UL AWM Style 2576 |

## Max. Recommended Current:

|                               |
|-------------------------------|
| Current                       |
| 2.1 Amps per conductor @ 25°C |

## Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color  | Notes | Item Desc      |
|---------------|----------|-------------|--------|-------|----------------|
| 8457 060U1000 | 1,000 FT | 49.000 LB   | CHROME |       | 12 #22 PVC PVC |
| 8457 060U500  | 500 FT   | 25.000 LB   | CHROME |       | 12 #22 PVC PVC |
| 8457 060100   | 100 FT   | 5.400 LB    | CHROME |       | 12 #22 PVC PVC |
| 8457 0601000  | 1,000 FT | 51.000 LB   | CHROME | C     | 12 #22 PVC PVC |
| 8457 060500   | 500 FT   | 25.500 LB   | CHROME | C     | 12 #22 PVC PVC |
| 8457 0605000  | 5,000 FT | 250.000 LB  | CHROME | C     | 12 #22 PVC PVC |

## Notes:

C = CRATE REEL PUT-UP.

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