

## 8459 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information  
please call

1-800-Belden1



### Description:

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

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 25           | 22  | 7x30      | TC - Tinned Copper |

#### Insulation

##### Insulation Material:

| Insulation Material      | Wall Thickness (mm) |
|--------------------------|---------------------|
| PVC - Polyvinyl Chloride | 0.254               |

#### Outer Shield

##### Outer Shield Material:

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

#### Outer Jacket

##### Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 1.016                    |

### Overall Cabling

#### Overall Cabling Lay Length & Direction:

| Length (mm) |
|-------------|
| 101.5996    |

#### Overall Cabling Color Code Chart:

| Color        |
|--------------|
| Black        |
| White        |
| Red          |
| Green        |
| Orange       |
| Blue         |
| White/Black  |
| Red/Black    |
| Green/Black  |
| Orange/Black |
| Blue/Black   |
| Black/White  |
| Red/White    |
| Green/White  |
| Blue/White   |
| Black/Red    |
| White/Red    |
| Orange/Red   |
| Blue/Red     |
| Red/Green    |

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|                   |
|-------------------|
| Orange/Green      |
| Black/White/Red   |
| White/Black/Red   |
| Red/Black/White   |
| Green/Black/White |

Overall Nominal Diameter: 9.830 mm

### Mechanical Characteristics (Overall)

|                                        |                          |
|----------------------------------------|--------------------------|
| Operating Temperature Range:           | -20°C To +80°C           |
| UL Temperature Rating:                 | 80°C (UL AWM Style 2576) |
| Bulk Cable Weight:                     | 147.629 Kg/Km            |
| Max. Recommended Pulling Tension:      | 1014.190 N               |
| Min. Bend Radius (Install)/Minor Axis: | 93.980 mm                |

### 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) |
| 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: | FT4 |
|----------------|-----|

#### Plenum/Non-Plenum

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

### Electrical Characteristics (Overall)

#### Nom. Inductance:

|                   |
|-------------------|
| Inductance (µH/m) |
| 0.55777           |

#### Nom. Capacitance Conductor to Conductor:

|                    |
|--------------------|
| Capacitance (pF/m) |
| 111.554            |

#### Nom. Conductor DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 51.1836             |

#### Max. Operating Voltage - UL:

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

#### Max. Recommended Current:

|                               |
|-------------------------------|
| Current                       |
| 1.5 Amps per conductor @ 25°C |

## 8459 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      |
|--------------|--------|-------------|--------|-------|----------------|
| 8459 060100  | 30 MT  | 5.126 KG    | CHROME |       | 25 #22 PVC PVC |
| 8459 0601000 | 305 MT | 49.442 KG   | CHROME | C     | 25 #22 PVC PVC |
| 8459 060500  | 152 MT | 24.948 KG   | CHROME | C     | 25 #22 PVC PVC |

**Notes:**

C = CRATE REEL PUT-UP.

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#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.