

## 9431 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 |
|--------------|-----|-----------|--------------------|
| 20           | 22  | 7x30      | TC - Tinned Copper |

#### Insulation

##### Insulation Material:

| Insulation Material      | Wall Thickness (in.) |
|--------------------------|----------------------|
| PVC - Polyvinyl Chloride | .010                 |

#### Outer Shield

##### Outer Shield Material:

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

#### Outer Jacket

##### Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | .040                      |

#### Overall Cable

##### Overall Cabling Lay Length & Direction:

| Length (in.) |
|--------------|
| 4.05         |

##### 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    |

**9431 Multi-Conductor - Audio, Control and Instrumentation Cable**

|                           |           |
|---------------------------|-----------|
| Overall Nominal Diameter: | 0.345 in. |
|---------------------------|-----------|

**Mechanical Characteristics (Overall)**

|  |                          |
|--|--------------------------|
| Operating Temperature Range:           | -20°C To +80°C           |
| UL Temperature Rating:                 | 80°C (UL AWM Style 2576) |
| Bulk Cable Weight:                     | 83.500 lbs/1000 ft.      |
| Max. Recommended Pulling Tension:      | 180 lbs.                 |
| Min. Bend Radius (Install)/Minor Axis: | 3.500 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) |
| 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/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                       |
| 300 V RMS (CMG)               |
| 150 V RMS (UL AWM Style 2576) |

**Max. Recommended Current:**

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

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

## 9431 Multi-Conductor - Audio, Control and Instrumentation Cable

| Item #       | Putup    | Ship Weight | Color  | Notes | Item Desc      |
|--------------|----------|-------------|--------|-------|----------------|
| 9431 060100  | 100 FT   | 9.100 LB    | CHROME |       | 20 #22 PVC PVC |
| 9431 0601000 | 1,000 FT | 87.000 LB   | CHROME | C     | 20 #22 PVC PVC |
| 9431 060500  | 500 FT   | 44.500 LB   | CHROME | C     | 20 #22 PVC PVC |

**Notes:**

C = CRATE REEL PUT-UP.

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