

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

**Total Number of Conductors:** 20

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

| Insulation Material      | Wall Thickness (mm) |
|--------------------------|---------------------|
| PVC - Polyvinyl Chloride | 0.279               |

**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 Cable****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    |

**Overall Nominal Diameter:** 8.763 mm

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

## Mechanical Characteristics (Overall)

|                                   |                          |
|-----------------------------------|--------------------------|
| Operating Temperature Range:      | -20°C To +80°C           |
| UL Temperature Rating:            | 80°C (UL AWM Style 2576) |
| Bulk Cable Weight:                | 122.032 Kg/Km            |
| Max. Recommended Pulling Tension: | 800.676 N                |
| Min. Bend Radius/Minor Axis:      | 88.900 mm                |

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

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

## Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

## METRIC MEASUREMENT VERSION

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

|              |          |            |        |   |                |
|--------------|----------|------------|--------|---|----------------|
| 9431 060100  | 30 MT    | 4.128 KG   | CHROME |   | 20 #22 PVC PVC |
| 9431 0601000 | 305 MT   | 39.463 KG  | CHROME | C | 20 #22 PVC PVC |
| 9431 060500  | 152 MT   | 20.185 KG  | CHROME | C | 20 #22 PVC PVC |
| 9431 0605000 | 1,524 MT | 215.457 KG | CHROME | C | 20 #22 PVC PVC |

**Notes:**

C = CRATE REEL PUT-UP.

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