

## 8446 Multi-Conductor - Audio, Control, Communication and Instrumentation Cable



For more Information  
please call

1-800-Belden1



### Description:

22 and 18 AWG stranded (7x30 and 16x30) tinned copper conductors PVC insulated, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 4            | 22  | 7x30      | TC - Tinned Copper |
| 2            | 18  | 16x30     | TC - Tinned Copper |

Total Number of Conductors: 6

#### Insulation

##### Insulation Material:

| Insulation Material      | Wall Thickness (mm) | AWG |
|--------------------------|---------------------|-----|
| PVC - Polyvinyl Chloride | 0.279               | 22  |
| PVC - Polyvinyl Chloride | 0.483               | 18  |

#### Outer Shield

##### Outer Shield Material:

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

#### Outer Jacket

##### Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.8128                   |

#### Overall Cable

##### Overall Cabling Color Code Chart:

| Color | AWG |
|-------|-----|
| Red   | 22  |
| Green | 22  |
| Brown | 22  |
| Blue  | 22  |
| White | 18  |
| Black | 18  |

Overall Nominal Diameter: 5.994 mm

### Mechanical Characteristics (Overall)

|                                   |                          |
|-----------------------------------|--------------------------|
| Operating Temperature Range:      | -20°C To +80°C           |
| UL Temperature Rating:            | 80°C (UL AWM Style 2576) |
| Bulk Cable Weight:                | 58.040 Kg/Km             |
| Max. Recommended Pulling Tension: | 346.960 N                |
| Min. Bend Radius/Minor Axis:      | 63.500 mm                |

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### 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:  | UL1685 FT4 Loading |
| CSA Flame Test: | FT4                |

#### Plenum/Non-Plenum

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

### Electrical Characteristics (Overall)

#### Nom. Capacitance Conductor to Conductor:

| Capacitance (pF/m) |
|--------------------|
| 98.43              |

#### Nom. Capacitance Cond. to Other Cond. & Ground:

| Capacitance (pF/m) |
|--------------------|
| 177.174            |

#### Nom. Conductor DC Resistance:

| Description | DCR @ 20°C (Ohm/km) |
|-------------|---------------------|
| 22 AWG      | 50.8555             |
| 18 AWG      | 22.3108             |

#### Max. Operating Voltage - UL:

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

#### Max. Recommended Current:

| Description | Current                       |
|-------------|-------------------------------|
| 22 AWG      | 2.5 Amps per conductor @ 25°C |
| 18 AWG      | 5.6 Amps per conductor @ 25°C |

### Put Ups and Colors:

| Item #        | Putup  | Ship Weight | Color  | Notes | Item Desc         |
|---------------|--------|-------------|--------|-------|-------------------|
| 8446 060U1000 | 305 MT | 18.597 KG   | CHROME |       | 4#22 2#18 PVC PVC |
| 8446 060U500  | 152 MT | 9.752 KG    | CHROME |       | 4#22 2#18 PVC PVC |
| 8446 060100   | 30 MT  | 2.132 KG    | CHROME |       | 4#22 2#18 PVC PVC |
| 8446 0601000  | 305 MT | 19.505 KG   | CHROME | C     | 4#22 2#18 PVC PVC |
| 8446 060500   | 152 MT | 9.752 KG    | CHROME | C     | 4#22 2#18 PVC PVC |

#### Notes:

C = CRATE REEL PUT-UP.

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