

## 9418 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information  
please call

1-800-Belden1



### General Description:

18 AWG stranded (19x30) tinned copper conductors, conductors cabled, semi-rigid PVC insulation, overall Beldfoil® shield (100% coverage), 20 AWG stranded tinned copper drain wire, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 4            | 18  | 19x30     | TC - Tinned Copper |

Total Number of Conductors: 4

#### Insulation

Insulation Material:

| Insulation Material                     | Wall Thickness (in.) |
|---|----------------------|
| S-R PVC - Semi-Rigid Polyvinyl Chloride | .011                 |

#### Outer Shield

Outer Shield Material:

| Outer Shield Trade Name | Type | Outer Shield Material        | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil® (Z-Fold®)     | Tape | Aluminum Foil-Polyester Tape | 100          |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 20  | Stranded  | TC - Tinned Copper            |

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | .035                      |

#### Overall Cable

Overall Cabling Lay Length & Direction:

| Length (in.) | Direction | Twists (twist/ft) |
|--------------|-----------|-------------------|
| 2.000        | Left Hand | 6.000             |

Overall Cabling Color Code Chart:

| Number | Color |
|--------|-------|
| 1      | Red   |
| 2      | Green |
| 3      | Black |
| 4      | White |

Overall Nominal Diameter: 0.245 in.

### Mechanical Characteristics (Overall)

|                                   |                          |
|-----------------------------------|--------------------------|
| Operating Temperature Range:      | -20°C To +80°C           |
| UL Temperature Rating:            | 80°C (UL AWM Style 2464) |
| Bulk Cable Weight:                | 42 lbs/1000 ft.          |
| Max. Recommended Pulling Tension: | 100 lbs.                 |
| Min. Bend Radius/Minor Axis:      | 2.500 in.                |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                          |                            |
|--------------------------|----------------------------|
| NEC/(UL) Specification:  | CMG                        |
| NEC Articles:            | 800                        |
| CEC/C(UL) Specification: | CMG                        |
| AWM Specification:       | UL Style 2464 (300 V 80°C) |

## 9418 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                |

### Suitability

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

### Plenum/Non-Plenum

|                |                |
|----------------|----------------|
| Plenum (Y/N):  | No             |
| Plenum Number: | 89418 or 82418 |

### Electrical Characteristics (Overall)

#### Nom. Capacitance Conductor to Conductor:

|                     |
|---------------------|
| Capacitance (pF/ft) |
| 40.000              |

#### Nom. Capacitance Cond. to Other Conductor & Shield:

|                     |
|---------------------|
| Capacitance (pF/ft) |
| 72.000              |

#### Nom. Conductor DC Resistance:

|                          |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 6.5                      |

#### Nominal Outer Shield DC Resistance:

|                          |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 8.5                      |

#### Max. Operating Voltage - UL:

|           |
|-----------|
| Voltage   |
| 300 V RMS |

#### Max. Recommended Current:

| Description          | Current                             |
|----------------------|-------------------------------------|
| 10C Temperature rise | 5 Amps per conductor @ 25°C ambient |

### Put Ups and Colors:

| Item #        | Putup     | Ship Weight | Color  | Notes | Item Desc          |
|---------------|-----------|-------------|--------|-------|--------------------|
| 9418 060U1000 | 1,000 FT  | 45.000 LB   | CHROME |       | 4 #18 PVC FS FRPVC |
| 9418 060U500  | 500 FT    | 23.500 LB   | CHROME |       | 4 #18 PVC FS FRPVC |
| 9418 060100   | 100 FT    | 5.100 LB    | CHROME |       | 4 #18 PVC FS FRPVC |
| 9418 0601000  | 1,000 FT  | 45.000 LB   | CHROME | C     | 4 #18 PVC FS FRPVC |
| 9418 06010000 | 10,000 FT | 500.000 LB  | CHROME | C Y   | 4 #18 PVC FS FRPVC |
| 9418 06013000 | 13,000 FT | 585.000 LB  | CHROME | C Y   | 4 #18 PVC FS FRPVC |
| 9418 060500   | 500 FT    | 23.500 LB   | CHROME | C     | 4 #18 PVC FS FRPVC |
| 9418 0605000  | 5,000 FT  | 230.000 LB  | CHROME | C Z   | 4 #18 PVC FS FRPVC |

#### Notes:

C = CRATE REEL PUT-UP.  
 Y = FINAL PUT-UP LENGTH MAY VARY -10% TO +20% FROM LENGTH SHOWN.MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.  
 Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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