

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

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 (mm) |
|---|---------------------|
| S-R PVC - Semi-Rigid Polyvinyl Chloride | 0.2794 |

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 (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.889 |

Overall Cable

Overall Cabling Lay Length & Direction:

| Length (mm) | Direction | Twists (twist/m) |
|-------------|-----------|------------------|
| 50.800 | Left Hand | 19.686 |

Overall Cabling Color Code Chart:

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

Overall Nominal Diameter: 6.223 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +80°C

UL Temperature Rating: 80°C (UL AWM Style 2464)

Bulk Cable Weight: 62.504 Kg/Km

Max. Recommended Pulling Tension: 444.820 N

Min. Bend Radius/Minor Axis: 63.500 mm

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)

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| | |
|---------------------------------------|------------|
| 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/m) |
| 131.240 |

Nom. Capacitance Cond. to Other Conductor & Shield:

| |
|--------------------|
| Capacitance (pF/m) |
| 236.232 |

Nom. Conductor DC Resistance:

| |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 21.3265 |

Nominal Outer Shield DC Resistance:

| |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 27.8885 |

Max. Operating Voltage - UL:

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

Max. Recommended Current:

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

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|--------|-------|--------------------|
| 9418 060U1000 | 305 MT | 19.958 KG | CHROME | | 4 #18 PVC FS FRPVC |
| 9418 060U500 | 152 MT | 10.206 KG | CHROME | | 4 #18 PVC FS FRPVC |
| 9418 060100 | 30 MT | 2.268 KG | CHROME | | 4 #18 PVC FS FRPVC |
| 9418 0601000 | 305 MT | 20.412 KG | CHROME | C | 4 #18 PVC FS FRPVC |
| 9418 06010000 | 3,048 MT | 222.261 KG | CHROME | C Y | 4 #18 PVC FS FRPVC |
| 9418 06013000 | 3,962 MT | 277.146 KG | CHROME | C Y | 4 #18 PVC FS FRPVC |
| 9418 060500 | 152 MT | 10.433 KG | CHROME | C | 4 #18 PVC FS FRPVC |
| 9418 0605000 | 1,524 MT | 99.791 KG | 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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