

## 89418 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information  
please call

1-800-Belden1

**Description:**

18 AWG stranded (19x30) TC conductors, conductors cabled, plenum, FEP insulation, overall Beldfoil® shield (100% coverage), 20 AWG stranded TC drain wire, FEP jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

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

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

| Insulation Material                  | Wall Thickness (mm) |
|--------------------------------------|---------------------|
| FEP - Fluorinated Ethylene Propylene | 0.1778              |

**Outer Shield****Outer Shield Material:**

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

**Outer Shield Drain Wire AWG:**

| AWG | Stranding | Drain Wire         | Conductor Material |
|-----|-----------|--------------------|--------------------|
| 20  | 19x32     | TC - Tinned Copper |                    |

**Outer Jacket****Outer Jacket Material:**

| Outer Jacket Material                | Nom. Wall Thickness (mm) |
|--------------------------------------|--------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.3556                   |

**Overall Cabling****Overall Cabling Color Code Chart:**

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

Overall Nominal Diameter: 4.394 mm

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -70°C To +200°C

Bulk Cable Weight: 57.742 Kg/Km

Max. Recommended Pulling Tension: 507.095 N

Min. Bend Radius (Install)/Minor Axis: 44.450 mm

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

## 89418 Multi-Conductor - Audio, Control and Instrumentation Cable

|                                       |            |
|---------------------------------------|------------|
| 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:    | NFPA 262 |
| C(UL) Flame Test: | FT6      |

## Suitability

|                        |     |
|------------------------|-----|
| Suitability - Outdoor: | Yes |
| Suitability - Burial:  | Yes |

## Plenum/Non-Plenum

|                    |      |
|--------------------|------|
| Plenum (Y/N):      | Yes  |
| Non-Plenum Number: | 9418 |

## Electrical Characteristics (Overall)

## Nom. Inductance:

|                                |
|--------------------------------|
| Inductance ( $\mu\text{H/m}$ ) |
| 0.49215                        |

## Nom. Capacitance Conductor to Conductor:

|                               |
|-------------------------------|
| Capacitance ( $\text{pF/m}$ ) |
| 98.43                         |

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

|                               |
|-------------------------------|
| Capacitance ( $\text{pF/m}$ ) |
| 187.017                       |

## Nominal Velocity of Propagation:

|        |
|--------|
| VP (%) |
| 69     |

## Nominal Delay:

|              |
|--------------|
| Delay (ns/m) |
| 0.482307     |

## Nom. Conductor DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 20.9984             |

## Nominal Outer Shield DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 25.9199             |

## Max. Operating Voltage - UL:

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

## Max. Recommended Current:

|                               |
|-------------------------------|
| Current                       |
| 4.3 Amps per conductor @ 25°C |

## Notes (Overall)

**Notes:** Chemical Resistance: Gasoline, Oil

## 89418 Multi-Conductor - Audio, Control and Instrumentation Cable

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

| Item #        | Putup  | Ship Weight | Color | Notes | Item Desc       |
|---------------|--------|-------------|-------|-------|-----------------|
| 89418 002100  | 30 MT  | 2.449 KG    | RED   | C     | 4#18 FEP FS FEP |
| 89418 0021000 | 305 MT | 15.876 KG   | RED   | C     | 4#18 FEP FS FEP |
| 89418 002500  | 152 MT | 7.938 KG    | RED   | C     | 4#18 FEP FS FEP |

**Notes:**

C = CRATE REEL PUT-UP.

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