



Part Number: 89418

Audio/Control/Instrumentation, (4) 18 AWG (19x30) TC, FEP/FEP, Foil Shld, CMP

[Request Sample](#)

Product Description

Four 18 AWG stranded (19x30) tinned copper conductors, fluorinated ethylene propylene (FEP) insulation, overall Beldfoil® shield (100% coverage), tinned copper drain wire, fluorinated ethylene propylene (FEP) jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Conductors |
|-----|-----------|--------------------|-------------------|
| 18 | 19x30 | TC - Tinned Copper | 4 |

| | |
|------------------|--------|
| Conductor Count: | 4 |
| Conductor Size: | 18 AWG |

Insulation

| Material | Nominal Wall Thickness |
|--------------------------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.0065 in |

Color Chart

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

Outer Shield Material

| Type | Material | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|--------------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Aluminum/Polyester | Beldfoil® | 100 % | TC - Tinned Copper | 20 | 19x32 mm |

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------------------|------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.173 in | 0.014 in |

Construction and Dimensions

Cabling

| Lay Direction | Twists |
|---------------|------------|
| Left Hand | 6 twist/ft |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 6.4 Ohm/1000ft | 7.9 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 30 pF/ft | 57 pF/ft |

| | |
|------------|---------------------------|
| Shielding: | Foil(s) or Copper Tape(s) |
|------------|---------------------------|

Inductance

Nominal Inductance

0.15 µH/ft

Delay

Nominal Delay Nominal Velocity of Propagation (VP) [%]

1.47 ns/ft 69 %

Current

Element Max. Recommended Current [A]

10C Temperature Rise 4.3 Amps per conductor @ 25°C ambient

Voltage

UL Voltage Rating

300 V RMS

Temperature Range

Operating Temp Range: -70°C To +200°C

Mechanical Characteristics

Oil Resistance: Yes

Bulk Cable Weight: 35 lbs/1000ft

Max Recommended Pulling Tension: 114 lbs

Min Bend Radius/Minor Axis: 1.75 in

Standards

NEC Articles: 800

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

CPR Euroclass: Eca

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2003/96/EC (BFR): Yes

EU Directive 2011/65/EU (ROHS II): Yes

EU Directive 2012/19/EU (WEEE): Yes

EU Directive 2015/863/EU: Yes

EU Directive Compliance: EU Directive 2003/11/EC (BFR)

EU CE Mark: Yes

EU RoHS Compliance Date (yyyy-mm-dd): 2005-04-01

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Suitability

Suitability - Burial: Yes

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Suitability - Sunlight Resistance: Yes

Flammability, LS0H, Toxicity Testing

UL Flammability: NFPA 262

CSA Flammability: FT6

UL voltage rating: 300 V RMS

Plenum/Non-Plenum

Plenum (Y/N): Yes

Part Number

Non-Plenum Number: 9418

Variants

| Item # | Color | Footnote |
|---------------|-------|----------|
| 89418 002100 | Red | C |
| 89418 0021000 | Red | C |
| 89418 002500 | Red | C |
| 89418 0025000 | Red | C Z |

| | |
|-----------|--|
| Footnote: | C - CRATE REEL PUT-UP. |
| Footnote: | Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN. |

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