



**Product:** [88770](#) 

Electronic, 3 C #18 Str TC, FEP Ins, OS, FEP Jkt, CMP

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## Product Description

High Temperature Electronic, 3 Conductor 18AWG (19x30) Tinned Copper, FEP Insulation, Overall Beldfoil® Shield, FEP Outer Jacket, CMP

## Technical Specifications

### Product Overview

|                        |   |
|------------------------|---|
| Suitable Applications: | extreme high/low temperature environments; chemical resistant; outdoor and burial applications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage control (24v, ...); line level audio; voice communications; panel wiring |
|------------------------|---|

### Construction Details

#### Conductor

| Element      | No. of Elements | Size   | Stranding | Material           |
|--------------|-----------------|--------|-----------|--------------------|
| Conductor(s) | 3               | 18 AWG | 19x30     | TC - Tinned Copper |

#### Insulation

| Element      | Material                             | Nom. Thickness     | Nom. Insulation Diameter | Color Code        |
|--------------|--------------------------------------|--------------------|--------------------------|-------------------|
| Conductor(s) | FEP - Fluorinated Ethylene Propylene | 0.007 in (0.18 mm) | 0.057 in (1.4 mm)        | Black, White, Red |

#### Outer Shield

| Shield Type | Material                | Coverage | Drainwire Type    |
|-------------|-------------------------|----------|-------------------|
| Tape        | Bi-Laminate (Alum+Poly) | 100%     | 20 AWG (19x32) TC |

#### Outer Jacket

| Material                             | Nom. Thickness     | Nom. Diameter      |
|--------------------------------------|--------------------|--------------------|
| FEP - Fluorinated Ethylene Propylene | 0.014 in (0.36 mm) | 0.155 in (3.94 mm) |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.155 in (3.94 mm) |
|-----------------------------------|--------------------|

### Electrical Characteristics

#### Electricals

| Element      | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                  |
|--------------|--------------------|-------------------------------|---|-------------------------------|
| Conductor(s) | 7.06 Ohm/1000ft    | 54 pF/ft (180 pF/m)           | 96 pF/ft (310 pF/m)                             | 17 Amps per Conductor at 30°C |

|                       |                          |
|-----------------------|--------------------------|
| Nom Outer Shield DCR: | 8 Ohm/1000ft (26 Ohm/km) |
|-----------------------|--------------------------|

#### Voltage

|                          |
|--------------------------|
| <b>UL Voltage Rating</b> |
| 300 V (CMP)              |

### Mechanical Characteristics

#### Temperature

| UL Temperature | Operating       |
|----------------|-----------------|
| 150°C          | -20°C to +150°C |

#### Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
|                 |                   |

1.6 in (41 mm) | 1.6 in (41 mm)

Max. Pull Tension: 89.1 lbs (40.4 kg)

Bulk Cable Weight: 28 lbs/1000ft

## Standards and Compliance

Environmental Suitability: Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial

Sustainability: CA Prop 65

Flammability / Reaction to Fire: NFPA 262, UL 910 (Plenum), IEC 60332-1-2

CPR Compliance: CPR Euroclass: Eca

NEC / UL Compliance: Article 800, CMP

CEC / C(UL) Compliance: CMP

European Directive Compliance: EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)

UK Regulation Compliance: UKCA Mark

APAC Compliance: China RoHS II (GB/T 26572-2011)

Non-Plenum Number: 8770

## Product Notes

Notes: Gas Resistant

## History

Update and Revision: Revision Number: 0.541 Revision Date: 09-07-2025

## Part Numbers

### Variants

| Item #        | Color | Putup Type | Length   | UPC          | Footnote |
|---------------|-------|------------|----------|--------------|----------|
| 88770 002500  | Red   | Reel       | 500 ft   | 612825217404 | C Z      |
| 88770 0021000 | Red   | Reel       | 1,000 ft | 612825217398 | C Z      |
| 88770 0025000 | Red   | Reel       | 5,000 ft | 612825217411 | C Z      |

Footnote: C - CRATE REEL PUT-UP., 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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