



Product: [8770](#)

Electronic, 3 C #18 Str TC, PE Ins, OS, PVC Jkt, CM

 [Request Sample](#)

Product Description

Electronic, 3 Conductor 18AWG (16x30) Tinned Copper, PE Insulation, Overall Beldfoil® Shield, PVC Outer Jacket, CM

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Suitable 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 | 16x30 | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|--------------|-------------------|--------------------|--------------------------|-------------------|
| Conductor(s) | PE - Polyethylene | 0.018 in (0.46 mm) | 0.082 in (2.1 mm) | Black, Red, Clear |

Outer Shield

| Shield Type | Material | Coverage | Drainwire Type |
|-------------|-------------------------|----------|------------------|
| Tape | Bi-Laminate (Alum+Poly) | 100% | 20 AWG (7x28) TC |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter |
|--------------------------|--------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.033 in (0.84 mm) | 0.246 in (6.25 mm) |

Overall Cable Diameter (Nominal): 0.246 in (6.25 mm)

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Characteristic Impedance | Nom. Inductance | Max. Current |
|--------------|--------------------|-------------------------------|---|-------------------------------|----------------------------------|-------------------------------|
| Conductor(s) | 7.06 Ohm/1000ft | 24 pF/ft (79 pF/m) | 48 pF/ft (160 pF/m) | 69 Ohm | 0.18 μ H/ft (0.59 μ H/m) | 14 Amps per Conductor at 30°C |

Nom Outer Shield DCR: 8.08 Ohm/1000ft (26.5 Ohm/km)

Voltage

| UL Voltage Rating |
|---------------------------------|
| 300 V (CM), 300 V (UL AWM 2093) |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|----------------|
| 60°C | -20°C to +60°C |

Bend Radius

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

0.16 in (4.1 mm)

2.5 in (64 mm)

Max. Pull Tension: 75 lbs (34 kg)

Bulk Cable Weight: 36 lbs/1000ft

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | UL 1685 UL loading , IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: Eca; CPR UKCA Class: Eca |
| NEC / UL Compliance: | Article 800, CM |
| AWM Compliance: | AWM 2093 |
| CEC / C(UL) Compliance: | CM |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| UK Regulation Compliance: | UKCA Mark |
| Plenum Number: | 88770 |

History

Update and Revision: Revision Number: 0.532 Revision Date: 09-07-2025

Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC/EAN | Footnote |
|---------------|--------|------------|-----------|---------------|----------|
| 8770.023048 | Black | Reel | 3,048 m | 8719605019226 | |
| 8770.00U152 | Chrome | UnReel | 152 m | 8719605019172 | |
| 8770.01152 | Chrome | Reel | 152 m | 8719605019196 | |
| 8770.00U305 | Chrome | UnReel | 305 m | 8719605019189 | |
| 8770.01305 | Chrome | Reel | 305 m | 8719605019219 | |
| 8770.K1305 | Chrome | Reel | 305 m | 8719605019233 | |
| 8770 060500 | Chrome | Reel | 500 ft | 612825215653 | C |
| 8770 060U500 | Chrome | UnReel | 500 ft | 612825215592 | |
| 8770 0601000 | Chrome | Reel | 1,000 ft | 612825215608 | C |
| 8770 060U1000 | Chrome | UnReel | 1,000 ft | 612825215585 | |
| 8770.013048 | Chrome | Reel | 3,048 m | 8719605019202 | |
| 8770 0605000 | Chrome | Reel | 5,000 ft | 612825215660 | |
| 8770 06010000 | Chrome | Reel | 10,000 ft | 612825215615 | C Y |
| 8770 06012000 | Chrome | Reel | 12,000 ft | 612825215646 | C Y |

Footnote: C - CRATE REEL PUT-UP., Y - FINAL PUT-UP LENGTH MAY VAR -10% TO +20% FROM LENGTH SHOWN. MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

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