



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      | Number of Element | Size   | Stranding | Material           |
|--------------|-------------------|--------|-----------|--------------------|
| Conductor(s) | 3                 | 18 AWG | 16x30     | TC - Tinned Copper |

Insulation

| Element      | Material          | Nom. Thickness     | Color Code        |
|--------------|-------------------|--------------------|-------------------|
| Conductor(s) | PE - Polyethylene | 0.018 in (0.46 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) |

|                           |                    |
|---------------------------|--------------------|
| 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 Impedence | Max. Current                   |
|--------------|----------------------------|-------------------------------|-------------------------------------------------|-------------------------------|--------------------------------|
| Conductor(s) | 6.6 Ohm/1000ft (22 Ohm/km) | 24 pF/ft (79 pF/m)            | 48 pF/ft (160 pF/m)                             | 69 Ohm                        | 5.3 Amps per Conductor at 25°C |

Voltage

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

Mechanical Characteristics

Temperature

| UL Temperature     | Operating      |
|--------------------|----------------|
| 60°C (UL AWM 2093) | -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: | 74 lbs                   |
| Bulk Cable Weight: | 36 lbs/1000ft (54 kg/km) |

Standards and Compliance

|                                  |                                                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor                                                                                                                    |
| Sustainability:                  | CA Prop 65                                                                                                                |
| Flammability / Reaction to Fire: | UL1685 UL Loading, FT1, IEC 60332-1-2                                                                                     |
| CPR Compliance:                  | CPR Euroclass: Eca                                                                                                        |
| NEC / UL Compliance:             | Article 800, CM                                                                                                           |
| AWM Compliance:                  | 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) |
| Plenum Number:                   | 88770                                                                                                                     |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.373 Revision Date: 10-27-2021 |
|----------------------|--------------------------------------------------|

Variants

| Item #        | Color  | Putup Type | Length    | UPC/EAN       |
|---------------|--------|------------|-----------|---------------|
| 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 060500   | Chrome | Reel       | 500 ft    | 612825215653  |
| 8770 060U500  | Chrome | UnReel     | 500 ft    | 612825215592  |
| 8770 0601000  | Chrome | Reel       | 1,000 ft  | 612825215608  |
| 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  |
| 8770 06012000 | Chrome | Reel       | 12,000 ft | 612825215646  |

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