# Product: 8690

Electronic, 3 Pr #18 Str TC, PVC Ins, PVC Jkt, CMG

Request Sample

## Product Description

Electronic, 3 Pair 18AWG (16x30) Tinned Copper, PVC Insulation, PVC Outer Jacket, CMG

## Technical Specifications

### Product Overview

| | |
|---|---|
| Suitable Applications: | low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, …); line level audio; computer communication; panel wiring |

### Physical Characteristics (Overall)

**Conductor**

| AWG | Stranding | Material | No. of Pairs |
|---|---|---|---|
| 18 | 16x30 | TC - Tinned Copper | 3 |

| | |
|---|---|
| Conductor Count: | 6 |
| Total Number of Pairs: | 3 |

**Insulation**

| Material | Nominal Wall Thickness |
|---|---|
| PVC - Polyvinyl Chloride | 0.013 in |

**Color Chart**

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

**Inner Shield Material**

| Material |
|---|
| No Shield |

**Outer Shield Material**

| Material |
|---|
| No Shield |

**Outer Jacket Material**

| Material | Nominal Diameter | Nominal Wall Thickness |
|---|---|---|
| PVC - Polyvinyl Chloride | 0.347 in | 0.032 in |

### Construction and Dimensions

**Stranding**

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

### Electrical Characteristics

**Conductor DCR**

| Nominal Conductor DCR |
| --- |
| 5.86 Ohm/1000ft |

**Capacitance**

| Nom. Capacitance Conductor to Conductor |
| --- |
| 25.5 pF/ft |

**Inductance**

| Nominal Inductance |
| --- |
| 0.17 µH/ft |

**Current**

| Element | Max. Recommended Current [A] |
| --- | --- |
| 10C Temperature Rise | 3.4 Amps per conductor @ 25°C ambient |

**Voltage**

| UL Voltage Rating |
| --- |
| 300 V RMS |

## Temperature Range

| | |
| --- | --- |
| UL Temp Rating: | 80°C (UL AWM Style 2464) |
| Operating Temp Range: | -20°C To +80°C |

## Mechanical Characteristics

| | |
| --- | --- |
| Bulk Cable Weight: | 61 lbs/1000ft |
| Max Recommended Pulling Tension: | 134 lbs |
| Min Bend Radius/Minor Axis: | 3.5 in |

## Standards

| | |
| --- | --- |
| NEC Articles: | 800 |
| NEC/(UL) Specification: | CMG |
| CEC/C(UL) Specification: | CMG |
| UL AWM Style: | UL Style 2464 (300 V 80°C) |
| 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 |
| MII Order #39 (China RoHS): | Yes |

## Suitability

| | |
| --- | --- |
| Suitability - Indoor: | Yes |

## Flammability, LS0H, Toxicity Testing

| | |
| --- | --- |
| CSA Flammability: | FT4 |
| ISO/IEC Flammability: | IEC 60332-1-2 |
| UL voltage rating: | 300 V RMS |

## Plenum/Non-Plenum

| | |
| --- | --- |
| Plenum (Y/N): | No |

## Part Number

**Variants**

| Item # | Color | Putup Type | Length | UPC |
| --- | --- | --- | --- | --- |

| | | | | |
|---|---|---|---|---|
| 8690 060100 | Chrome | Reel | 100 ft | 612825214069 |
| 8690 060500 | Chrome | Reel | 500 ft | 612825214083 |
| 8690 060U500 | Chrome | UnReel | 500 ft | 612825214052 |
| 8690 0601000 | Chrome | Reel | 1,000 ft | 612825214076 |
| 8690 0605000 | Chrome | Reel | 5,000 ft | 612825214090 |

| | |
|---|---|
| Footnote: | C - CRATE REEL PUT-UP. |

## History

| | |
|---|---|
| Update and Revision: | Revision Number: 0.291 Revision Date: 04-28-2020 |

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