



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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