



**Part Number: 8690**

Audio/Control/Instrumentation, (3 pr) 18 AWG (16x30) TC, PVC/PVC, CMG

## Product Description

Three 18 AWG pairs stranded (16x30) tinned copper conductors, twisted pairs, PVC insulation, PVC jacket.

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

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

|                        |        |
|------------------------|--------|
| Conductor Count:       | 6      |
| Total Number of Pairs: | 3      |
| Conductor Size:        | 18 AWG |

#### 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   |
|------------|
| Unshielded |

#### Outer Shield Material

| Material   |
|------------|
| Unshielded |

#### Outer Jacket Material

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

### Construction and Dimensions

#### Stranding

| Lay Length | Lay Direction | Twists     |
|------------|---------------|------------|
| 2 in       | 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 |
|------------|

|            |            |
|------------|------------|
| Shielding: | Unshielded |
|------------|------------|

#### Inductance

##### Nominal Inductance

|                 |
|-----------------|
| 0.17 $\mu$ H/ft |
|-----------------|

#### Current

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

#### Voltage

##### UL Voltage Rating

|          |
|----------|
| 300V 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                    |
| CA Prop 65 (CJ for Wire & Cable):     | Yes                           |
| MII Order #39 (China RoHS):           | Yes                           |

#### Suitability

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

#### Flammability, LSOH, Toxicity Testing

|                    |           |
|--------------------|-----------|
| CSA Flammability:  | FT4       |
| UL Voltage Rating: | 300 V RMS |

#### Plenum/Non-Plenum

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

#### Part Number

#### Variants

| Item #       | Color  | Footnote |
|--------------|--------|----------|
| 8690 060100  | CHROME |          |
| 8690 0601000 | CHROME | C        |
| 8690 060500  | CHROME | C        |
| 8690 0605000 | CHROME |          |

8690 060U500 CHROME

Footnote: C - CRATE REEL PUT-UP.

© 2018 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.