



**Product:** [9309](#)

Audio, Control & Instrument, #22-9pr, PVC, O/A Foil, PVC Jkt, CMG

### Product Description

Audio, Control & Instrument Cable, 22 AWG solid tinned copper conductors, PVC insulation, twisted pairs, overall Beldfoil® shield (100% coverage), 22 AWG stranded tinned copper drain wire, PVC jacket.

### 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 |
|-----|-----------|--------------------|--------------|
| 22  | Solid     | TC - Tinned Copper | 9            |

|                  |    |
|------------------|----|
| Conductor Count: | 18 |
|------------------|----|

##### Insulation

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

##### Color Chart

| Number | Color          |
|--------|----------------|
| 1      | Black & Red    |
| 2      | Black & White  |
| 3      | Black & Green  |
| 4      | Black & Blue   |
| 5      | Black & Yellow |
| 6      | Black & Brown  |
| 7      | Black & Orange |
| 8      | Red & White    |
| 9      | Red & Green    |

##### Color Chart 2

| Number |
|--------|
| 11     |

##### Outer Shield Material

| Type | Material                | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|-------------------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Bi-Laminate (Alum+Poly) | Beldfoil®           | 100%         | TC - Tinned Copper | 22            | 7x30                         |

##### Outer Jacket Material

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.363 in         | 0.033 in               |

#### Electrical Characteristics

##### Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 16.5 Ohm/1000ft       | 12.5 Ohm/1000ft          |

#### Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Shield |
|---|--------------------------------------|
| 35 pF/ft                                | 50 pF/ft                             |

#### Inductance

| Nominal Inductance |
|--------------------|
| 0.02 $\mu$ H/ft    |

#### Current

| Max. Recommended Current [A]   |
|--------------------------------|
| 1.4 Amps per Conductor at 25°C |

#### 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:          | 79 lbs/1000ft |
| Max. Pull Tension:          | 149 lbs       |
| Min Bend Radius/Minor Axis: | 3.75 in       |

### Standards

|                          |                   |
|--------------------------|-------------------|
| NEC/(UL) Compliance:     | CMG               |
| CEC/C(UL) Compliance:    | CMG               |
| UL AWM Style Compliance: | 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 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                           |

### Flammability, LSOH, Toxicity Testing

|                    |                    |
|--------------------|--------------------|
| UL Flammability:   | UL1685 FT4 Loading |
| CSA Flammability:  | FT4                |
| 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          |
|--------------|--------|------------|----------|--------------|
| 9309 060500  | Chrome | Reel       | 500 ft   | 612825227588 |
| 9309 0601000 | Chrome | Reel       | 1,000 ft | 612825227571 |

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

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.246 Revision Date: 09-30-2020 |
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