



**Product:** [9990](#) 

Audio, Control & Instrument, #24-3pr, PO, Individ. Foil, PVC Jkt, CM

## Product Description

Audio, Control & Instrument Cable, 24 AWG stranded (7x32) tinned copper conductors, polyethylene insulation, twisted pairs, individually shielded with Beldfoil® (100% coverage), 24 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 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|

### Construction Details

#### Conductor

| Element | Number of Element | Size   | Stranding | Material           |
|---------|-------------------|--------|-----------|--------------------|
| Pair(s) | 3                 | 24 AWG | 7x32      | TC - Tinned Copper |

#### Insulation

| Material          | Nom. Thickness     | Nom. Insulation Diameter | Color Code                                |
|-------------------|--------------------|--------------------------|-------------------------------------------|
| PE - Polyethylene | 0.011 in (0.28 mm) | 0.046 in (1.2 mm)        | Black & Red, Black & White, Black & Green |

#### Inner Shield

| Shield Type | Material                | Coverage | Drainwire Type   |
|-------------|-------------------------|----------|------------------|
| Tape        | Bi-Laminate (Alum+Poly) | 100%     | 24 AWG (7x32) TC |

#### Outer Jacket

| Material                 | Nom. Thickness     | Nom. Diameter |
|--------------------------|--------------------|---------------|
| PVC - Polyvinyl Chloride | 0.035 in (0.89 mm) | 0.255 in      |

### Electrical Characteristics

#### Electricals

| Nom. Conductor DCR | Nom. Inner Shield DCR         | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Characteristic Impedence | Nom. Velocity of Prop. | Max. Current                    |
|--------------------|-------------------------------|-------------------------------|-------------------------------------------------|-------------------------------|------------------------|---------------------------------|
| 28.8 Ohm/1000ft    | 15.8 Ohm/1000ft (51.8 Ohm/km) | 25 pF/ft (82 pF/m)            | 47 pF/ft (150 pF/m)                             | 60 Ohm                        | 66%                    | 1.47 Amps per Conductor at 25°C |

#### Voltage

| UL Voltage Rating                            |
|----------------------------------------------|
| 30 V RMS (UL AWM Style 2919), 300 V RMS (CM) |

### Mechanical Characteristics

#### Temperature

| UL Temperature           | Operating      |
|--------------------------|----------------|
| 80°C (UL AWM Style 2919) | -20°C to +80°C |

|                    |               |
|--------------------|---------------|
| Max. Pull Tension: | 38.5 lbs      |
| Bulk Cable Weight: | 32 lbs/1000ft |

Standards and Compliance

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Flammability / Reaction to Fire: | UL1685 UL Loading, IEC 60332-1-2                                             |
| CPR Compliance:                  | CPR Euroclass: Eca                                                           |
| NEC / UL Compliance:             | Article 800, CM                                                              |
| AWM Compliance:                  | AWM 2919                                                                     |
| CEC / C(UL) Compliance:          | CM                                                                           |
| European Directive Compliance:   | EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)                                              |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.362 Revision Date: 10-19-2021 |
|----------------------|--------------------------------------------------|

Variants

| Item #       | Color  | UPC          |
|--------------|--------|--------------|
| 9990 0601000 | Chrome | 612825267683 |
| 9990 060500  | Chrome | 612825267690 |

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