


**Product:** [8774](#) 

Audio, Control & Instrument, #22-9pr, PP, Individ. Foil, PVC Jkt, CM



## Product Description

Audio, Control & Instrument Cable, 9-Pair, 22 AWG stranded (7x30) tinned copper conductor, polypropylene insulation, individually shielded pairs with Beldfoil® (100% coverage), overall PVC jacket and 22 AWG stranded tinned copper drain wire.

## 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) | 9                 | 22 AWG | 7x30      | TC - Tinned Copper |

#### Insulation

| Element | Material           | Nom. Thickness     | Nom. Insulation Diameter | Color Code   |
|---------|--------------------|--------------------|--------------------------|--|
| Pair(s) | PP - Polypropylene | 0.011 in (0.28 mm) | 0.050 in (1.3 mm)        | Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown, Black & Orange, Red & White, Red & Green |

#### Inner Shield

| Element | Shield Type | Material                | Coverage | Drainwire Type   | Notes     |
|---------|-------------|-------------------------|----------|------------------|-----------|
| Pair(s) | Tape        | Bi-Laminate (Alum+Poly) | 100%     | 22 AWG (7x30) TC | each pair |

#### Outer Jacket

| Material                 | Nom. Thickness     | Nom. Diameter      |
|--------------------------|--------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.034 in (0.86 mm) | 0.410 in (10.4 mm) |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.410 in (10.4 mm) |
|-----------------------------------|--------------------|

### Electrical Characteristics

#### Electricals

| Element | Nom. Conductor DCR | Nom. Inner Shield DCR           | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Characteristic Impedance | Nom. Velocity of Prop. | Max. Current                    |
|---------|--------------------|---------------------------------|-------------------------------|---|-------------------------------|------------------------|---------------------------------|
| Pair(s) | 18.2 Ohm/1000ft    | 11.54 Ohm/1000ft (37.86 Ohm/km) | 30 pF/ft (98 pF/m)            | 55 pF/ft (180 pF/m)                             | 50 Ohm                        | 66%                    | 1.96 Amps per Conductor at 25°C |

#### Voltage

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

### Mechanical Characteristics

#### Temperature

| UL Temperature | Operating      |
|----------------|----------------|
| 80°C           | -20°C to +80°C |

#### Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 4.1 in (100 mm) | 4.1 in (100 mm)   |

|                    |                      |
|--------------------|----------------------|
| Max. Pull Tension: | 172.9 lbs (78.43 kg) |
| Bulk Cable Weight: | 101 lbs/1000ft       |

## Standards and Compliance

|                                  |  |
|----------------------------------|--|
| Environmental Suitability:       | Indoor   |
| Sustainability:                  | CA Prop 65   |
| Flammability / Reaction to Fire: | UL 1685 FT4 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) |
| UK Regulation Compliance:        | UKCA Mark  |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)  |

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.545 Revision Date: 01-20-2023 |
|----------------------|--|

## Part Numbers

### Variants

| Item #       | Color  | Putup Type | Length   | UPC          |
|--------------|--------|------------|----------|--------------|
| 8774 060100  | Chrome | Reel       | 100 ft   | 612825215899 |
| 8774 060250  | Chrome | Reel       | 250 ft   | 612825215912 |
| 8774 060500  | Chrome | Reel       | 500 ft   | 612825215929 |
| 8774 0601000 | Chrome | Reel       | 1,000 ft | 612825215905 |

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