# BELDEN

**Product: 8774** ↗

# Audio, Control & Instrument, #22-9pr, PP, Indiv. 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 Impedence | 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 25ºC |

**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 |