

# Product: 9776

Audio, Control & Instrument, #18-12pr, PO, Indiv. Foil, PVC Jkt, CM

## Product Description

Audio, Control & Instrument Cable, 18 AWG stranded (19x30) tinned copper conductors, polypropylene insulation, 12 twisted pairs, individually shielded with Beldfoil® (100% coverage), 20 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 | No. of Elements | Size | Stranding | Material |
|---|---|---|---|---|
| Pair(s) | 12 | 18 AWG | 19x30 | TC - Tinned Copper |

**Insulation**

| Element | Material | Nom. Thickness | Color Code |
|---|---|---|---|
| Pair(s) | PP - Polypropylene | 0.019 in (0.48 mm) | Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown, Black & Orange, Red & White, Red & Green, Red & Blue, Red & Yellow, Red & Brown |

**Inner Shield**

| Element | Shield Type | Material | Coverage | Drainwire Type | Notes |
|---|---|---|---|---|---|
| Pair(s) | Tape | Bi-Laminate (Alum+Poly) | 100% | 20 AWG (7x28) TC | each pair |

**Outer Jacket**

| Material | Nom. Thickness | Nom. Diameter |
|---|---|---|
| PVC - Polyvinyl Chloride | 0.052 in (1.3 mm) | 0.735 in (18.7 mm) |

| | |
|---|---|
| Overall Cable Diameter (Nominal): | 0.735 in (18.7 mm) |

### Electrical Characteristics

**Electricals**

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Characteristic Impedence | Nom. Velocity of Prop. | Max. Current |
|---|---|---|---|---|---|---|
| Pair(s) | 6.4 Ohm/1000ft (21 Ohm/km) | 30 pF/ft (98 pF/m) | 55 pF/ft (180 pF/m) | 50 Ohm | 66% | 2.7 Amps per Conductor at 25ºC |

**Voltage**

| UL Voltage Rating |
|---|
| 300 V (CM), 30 V (UL AWM 2929) |

### Mechanical Characteristics

**Temperature**

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

**Bend Radius**

| Stationary Min. | Installation Min. |
|---|---|
| 7.4 in (190 mm) | 7.4 in (190 mm) |

| | |
|---|---|
| Max. Pull Tension: | 744 lbs (337 kg) |
| Bulk Cable Weight: | 275 lbs/1000ft (409 kg/km) |

## Standards and Compliance

| | |
|---|---|
| Environmental Suitability: | Indoor |
| Flammability / Reaction to Fire: | UL1685 UL Loading |
| 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: 0.431 Revision Date: 02-03-2025 |

## Part Numbers

**Variants**

| Item # | Color | Putup Type | Length | UPC | Footnote |
|---|---|---|---|---|---|
| 9776 060100 | Chrome | Reel | 100 ft | 612825258582 | C |
| 9776 060500 | Chrome | Reel | 500 ft | 612825258605 | C |
| 9776 0601000 | Chrome | Reel | 1,000 ft | 612825258599 | C |

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