



Product: [8777](#)

Audio, Control & Instrument, #22-3pr, PP, Individ. Foil, PVC Jkt, CM



### Product Description

Audio, Control & Instrument Cable, 3-Pair, 22 AWG stranded (7x30) tinned copper conductors, polypropylene insulation, individually shielded pairs (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 |
|------------------------|---|

#### Construction Details

##### Conductor

| Element | No. of Elements | Size   | Stranding | Material           |
|---------|-----------------|--------|-----------|--------------------|
| Pair(s) | 3               | 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 |

##### 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) | 0.273 in (6.93 mm) |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.273 in (6.93 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    | 12.39 Ohm/1000ft (40.65 Ohm/km) | 30 pF/ft (98 pF/m)            | 55 pF/ft (180 pF/m)                             | 50 Ohm                        | 66%                    | 2.8 Amps per Conductor at 25°C |

##### Voltage

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

#### Mechanical Characteristics

##### Temperature

| UL Temperature | Operating      | Storage         |
|----------------|----------------|-----------------|
| 80°C           | -20°C to +80°C | -40°C To +80 °C |

##### Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
|                 |                   |

2.7 in (69 mm) 2.7 in (69 mm)

Max. Pull Tension: 63.7 lbs (28.9 kg)

Bulk Cable Weight: 39 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; CPR UKCA Class: 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)  |
| Plenum Number:                   | 88777, 87777, 82777  |

## History

Update and Revision: Revision Number: 0.538 Revision Date: 12-22-2023

## Part Numbers

### Variants

| Item #        | Color  | Putup Type | Length    | UPC/EAN       | Footnote |
|---------------|--------|------------|-----------|---------------|----------|
| 8777.0030     | Chrome | Reel       | 30 m      | 8719605019493 |          |
| 8777 060100   | Chrome | Reel       | 100 ft    | 612825216087  |          |
| 8777.00U152   | Chrome | UnReel     | 152 m     | 8719605019516 |          |
| 8777.01152    | Chrome | Reel       | 152 m     | 8719605019530 |          |
| 8777 060250   | Chrome | Reel       | 250 ft    | 612825216124  | C        |
| 8777.00305    | Chrome | Reel       | 305 m     | 8719605019509 |          |
| 8777.00U305   | Chrome | UnReel     | 305 m     | 8719605019523 |          |
| 8777 060500   | Chrome | Reel       | 500 ft    | 612825216148  | C        |
| 8777 060U500  | Chrome | UnReel     | 500 ft    | 612825216070  |          |
| 8777 0601000  | Chrome | Reel       | 1,000 ft  | 612825216094  | C        |
| 8777 060U1000 | Chrome | UnReel     | 1,000 ft  | 612825216063  |          |
| 8777.001000   | Chrome | Reel       | 1,000 m   | 8719605019486 |          |
| 8777 0601640  | Chrome | Reel       | 1,640 ft  | 612825216117  | C        |
| 8777.013048   | Chrome | Reel       | 3,048 m   | 8719605019547 |          |
| 8777 0603280  | Chrome | Reel       | 3,280 ft  | 612825216131  | C        |
| 8777 0605000  | Chrome | Reel       | 5,000 ft  | 612825216155  | C        |
| 8777 06010000 | Chrome | Reel       | 10,000 ft | 612825216100  | C Y      |

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