



**Product:** [87778](#) 

Audio, Control & Instrument, #22-6pr, FEP, Indiv. Foil, PVDF Jkt, CMP

## Product Description

Audio, Control & Instrument Cable, 22 AWG stranded (7x30) tinned copper conductor, FEP insulation, twisted pairs individually shielded with Beldfoil® (100% coverage), overall jacket per table below, 22 AWG stranded tinned copper drain wire.

## Technical Specifications

### Product Overview

|                        |                                                                                                                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | extreme high temperature environments; chemical resistant; outdoor and burial applications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); line level audio; voice communications; panel wiring |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Construction Details

#### Conductor

| Element | Number of Element | Size   | Stranding | Material           |
|---------|-------------------|--------|-----------|--------------------|
| Pair(s) | 6                 | 22 AWG | 7x30      | TC - Tinned Copper |

#### Insulation

| Material                             | Nom. Thickness    | Nom. Insulation Diameter | Color Code                                                                             |
|--------------------------------------|-------------------|--------------------------|----------------------------------------------------------------------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.01 in (0.25 mm) | 0.049 in (1.2 mm)        | Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown |

#### Inner Shield

| Shield Type | Material                | Coverage | Drainwire Type    |
|-------------|-------------------------|----------|-------------------|
| Tape        | Bi-Laminate (Alum+Poly) | 100%     | 22 AWG (19x34) TC |

#### Outer Jacket

| Material                       | Nom. Thickness     | Nom. Diameter |
|--------------------------------|--------------------|---------------|
| PVDF - Polyvinylidene Fluoride | 0.014 in (0.36 mm) | 0.309 in      |

### Electrical Characteristics

#### Electricals

| Nom. Conductor DCR | Max. 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                    |
|--------------------|----------------------------|---------------------------------|-------------------------------|-------------------------------------------------|-------------------------------|------------------------|---------------------------------|
| 18.2 Ohm/1000ft    | 160 Ohm/km (49 Ohm/1000ft) | 10.46 Ohm/1000ft (34.32 Ohm/km) | 31 pF/ft (100 pF/m)           | 67 pF/ft (220 pF/m)                             | 50 Ohm                        | 69%                    | 1.96 Amps per Conductor at 25°C |

#### Voltage

| UL Voltage Rating |
|-------------------|
| 300 V RMS         |

### Mechanical Characteristics

#### Temperature

| UL Temperature | Operating       |
|----------------|-----------------|
| 150°C          | -20°C to +150°C |

|                    |               |
|--------------------|---------------|
| Max. Pull Tension: | 109.2 lbs     |
| Bulk Cable Weight: | 68 lbs/1000ft |

Standards and Compliance

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Flammability / Reaction to Fire: | NFPA 262 Plenum Flame Test (UL910), FT6                                      |
| NEC / UL Compliance:             | Article 800, CMP                                                             |
| CEC / C(UL) Compliance:          | CMP                                                                          |
| 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)                                              |
| Non-Plenum Number:               | 8778                                                                         |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.367 Revision Date: 10-19-2021 |
|----------------------|--------------------------------------------------|

Variants

| Item #        | Color | UPC          |
|---------------|-------|--------------|
| 87778 0021000 | Red   | 612825216223 |
| 87778 002500  | Red   | 612825216230 |

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