



**Product:** [82723](#) 

Audio, Control & Instrument, #22-2pr, FEP, Individ. Foil, LS-PVC Jkt, CMP

## Product Description

Audio, Control & Instrument Cable, 22 AWG stranded (7x30) tinned copper conductors, FEP insulation, twisted pairs, individually shielded with Beldfoil® (100% coverage), 24 AWG stranded tinned copper drain wire, Flammarrest® jacket, plenum rated.

## Technical Specifications

### Product Overview

|                        |   |
|------------------------|---|
| Suitable Applications: | indoor plenum 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 | No. of Elements | Size   | Stranding | Material           |
|---------|-----------------|--------|-----------|--------------------|
| Pair(s) | 2               | 22 AWG | 7x30      | TC - Tinned Copper |

#### Insulation

| Element | Material                             | Nom. Thickness     | Nom. Insulation Diameter | Color Code                 |
|---------|--------------------------------------|--------------------|--------------------------|----------------------------|
| Pair(s) | FEP - Fluorinated Ethylene Propylene | 0.007 in (0.18 mm) | 0.042 in (1.1 mm)        | Black & Red, Green & White |

#### Inner Shield

| Element | Shield Type | Material                | Coverage | Drainwire Type   | Notes     |
|---------|-------------|-------------------------|----------|------------------|-----------|
| Pair(s) | Tape        | Bi-Laminate (Alum+Poly) | 100%     | 24 AWG (7x32) TC | each pair |

#### Outer Jacket

| Material                 | Nom. Thickness     | Nom. Diameter      |
|--------------------------|--------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.017 in (0.43 mm) | 0.153 in (3.89 mm) |

Overall Cable Diameter (Nominal): 0.153 in (3.89 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) | 14.7 Ohm/1000ft    | 15 Ohm/1000ft (49 Ohm/km) | 43 pF/ft (140 pF/m)           | 75 pF/ft (250 pF/m)                             | 36 Ohm                        | 62%                    | 2.3 Amps per Conductor at 25°C |

#### Voltage

|                          |
|--------------------------|
| <b>UL Voltage Rating</b> |
| 300 V (CMP)              |

### Mechanical Characteristics

#### Temperature

| UL Temperature | Operating      |
|----------------|----------------|
| 90°C           | -20°C to +90°C |

#### Bend Radius

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

1.5 in (38 mm) 1.5 in (38 mm)

Max. Pull Tension: 46 lbs (21 kg)

Bulk Cable Weight: 19 lbs/1000ft

## Standards and Compliance

Environmental Suitability: Indoor - Plenum, Indoor

Flammability / Reaction to Fire: NFPA 262, UL 910 (Plenum), FT6, IEC 60332-1-2

CPR Compliance: CPR Euroclass: Eca

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)

UK Regulation Compliance: UKCA Mark

APAC Compliance: China RoHS II (GB/T 26572-2011)

Non-Plenum Number: 8723

## History

Update and Revision: Revision Number: 0.552 Revision Date: 09-07-2025

## Part Numbers

### Variants

| Item #         | Color   | UPC          | Footnote |
|----------------|---------|--------------|----------|
| 82723 8771000  | Natural | 612825197607 | C        |
| 82723 8775000  | Natural | 612825197614 |          |
| 82723 877U1000 | Natural | 612825197577 |          |
| 82723 877U2000 | Natural | 612825197584 |          |
| 82723 877U500  | Natural | 612825197591 |          |

Footnote: C - CRATE REEL PUT-UP.

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