



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, Flamarrest® 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: 0.548 Revision Date: 01-20-2023 |
|----------------------|--|

## 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 |          |

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