




**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), 22 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 |
|------------------------|---|

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material           | No. of Pairs |
|-----|-----------|--------------------|--------------|
| 22  | 7x30      | TC - Tinned Copper | 2            |

|                  |   |
|------------------|---|
| Conductor Count: | 4 |
|------------------|---|

#### Insulation

| Material                             | Nominal Wall Thickness |
|--------------------------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.007 in               |

#### Color Chart

| Number | Color         |
|--------|---------------|
| 1      | Red & Black   |
| 2      | Green & White |

#### Inner Shield Material

| Type | Material    | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|-------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Alum / Poly | Beldfoil® (Z-Fold®) | 100 %        | TC - Tinned Copper | 24            | 7x32                         |

#### Outer Shield Material

| Material  | Drainwire AWG |
|-----------|---------------|
| No Shield | 22            |

#### Outer Jacket Material

| Material                                | Material Trade Name | Nominal Diameter | Nominal Wall Thickness |
|---|---------------------|------------------|------------------------|
| PVC-LS - Polyvinyl Chloride (Low Smoke) | Flamarrest®         | 0.153 in         | 0.017 in               |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR | Nominal Inner Shield DCR |
|-----------------------|--------------------------|
| 14.7 Ohm/1000ft       | 15 Ohm/1000ft            |

#### Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 43 pF/ft                                | 75 pF/ft  |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 36 Ohm                           |

Delay

| Max. Delay Skew | Nominal Velocity of Propagation (VP) [%] |
|-----------------|--|
| 62 ns/100m      | 62 %                                     |

Current

| Max. Recommended Current [A]    |
|---------------------------------|
| 2.3 Amps per conductor @ 25°C A |

|                     |                      |
|---------------------|----------------------|
| Current Table Note: | 10C Temperature Rise |
|---------------------|----------------------|

Voltage

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

Temperature Range

|                       |                |
|-----------------------|----------------|
| Operating Temp Range: | -20°C To +90°C |
|-----------------------|----------------|

Mechanical Characteristics

|                                  |               |
|----------------------------------|---------------|
| Bulk Cable Weight:               | 19 lbs/1000ft |
| Max Recommended Pulling Tension: | 46 lbs        |
| Min Bend Radius/Minor Axis:      | 1.75 in       |

Standards

|                          |     |
|--------------------------|-----|
| NEC Articles:            | 800 |
| NEC/(UL) Specification:  | CMP |
| CEC/C(UL) Specification: | CMP |
| CPR Euroclass:           | Eca |

Applicable Environmental and Other Programs

|                                       |                               |
|---------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV):        | Yes                           |
| EU Directive 2003/96/EC (BFR):        | Yes                           |
| EU Directive 2011/65/EU (ROHS II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                           | Yes                           |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-04-01                    |
| MII Order #39 (China RoHS):           | Yes                           |

Suitability

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

Flammability, LS0H, Toxicity Testing

|                       |                                    |
|-----------------------|------------------------------------|
| UL Flammability:      | NFPA 262 Plenum Flame Test (UL910) |
| CSA Flammability:     | FT6                                |
| ISO/IEC Flammability: | IEC 60332-1-2                      |
| UL voltage rating:    | 300 V RMS                          |

Plenum/Non-Plenum

|               |     |
|---------------|-----|
| Plenum (Y/N): | Yes |
|---------------|-----|

Part Number

|                    |      |
|--------------------|------|
| Non-Plenum Number: | 8723 |
|--------------------|------|

Variants

| Item #        | Color   | UPC          |
|---------------|---------|--------------|
| 82723 8771000 | Natural | 612825197607 |
| 82723 8775000 | Natural | 612825197614 |

|                |         |              |
|----------------|---------|--------------|
| 82723 877U1000 | Natural | 612825197577 |
| 82723 877U2000 | Natural | 612825197584 |
| 82723 877U500  | Natural | 612825197591 |

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.311 Revision Date: 04-28-2020 |
|----------------------|--|

© 2020 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Belden Wire & Cable:

[82723 8771000](#) [82723 877U1000](#) [82723 877U2000](#) [82723 877U500](#) [82723 8775000](#)