



**Product:** [88777](#) 

Audio, Control & Instrument, #22-3pr, FEP, Individ. Foil, FEP 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

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material           | Nominal Diameter | No. of Conductors | No. of Pairs |
|-----|-----------|--------------------|------------------|-------------------|--------------|
| 22  | 7x30      | TC - Tinned Copper | 0.03 in          | 6                 | 3            |

|                  |   |
|------------------|---|
| Conductor Count: | 6 |
|------------------|---|

#### Insulation

| Material                             | Material Trade Name | Nominal Wall Thickness |
|--------------------------------------|---------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | Teflon®             | 0.01 in                |

#### Color Chart

| Number | Color         |
|--------|---------------|
| 1      | Black & Red   |
| 2      | Black & White |
| 3      | Black & Green |

#### Inner Shield Material

| Type | Material                     | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|------------------------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Aluminum Foil-Polyester Tape | Beldfoil® (Z-Fold®) | 100 %        | TC - Tinned Copper | 22            | 16x34                        |

#### Outer Shield Material

| Material   |
|------------|
| Unshielded |

#### Outer Jacket Material

| Material                             | Material Trade Name | Nominal Diameter | Nominal Wall Thickness |
|--------------------------------------|---------------------|------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | Teflon®             | 0.234 in         | 0.014 in               |

### Electrical Characteristics

#### Conductor DCR

| Individual Pair Nominal Shield DCR | Max. Conductor DCR |
|------------------------------------|--------------------|
| 11.3 Ohm/1000ft                    | 160 Ohm/km         |

#### Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 31 pF/ft                                | 67 pF/ft  |

#### Inductance

| Nominal Inductance |
|--------------------|
|--------------------|

0.18 µH/ft

#### Impedance

##### Nominal Characteristic Impedance

50 Ohm

#### Delay

##### Max. Delay Skew | Nominal Velocity of Propagation (VP) [%]

69 ns/100m

69 %

#### Current

##### Max. Recommended Current [A]

1.96 Amps per conductor @ 25°C A

#### Voltage

##### UL Voltage Rating

300 V RMS

#### Temperature Range

Operating Temp Range: -70°C To +200°C

#### Mechanical Characteristics

Bulk Cable Weight: 37 lbs/1000ft

Max Recommended Pulling Tension: 82 lbs

Min Bend Radius/Minor Axis: 2.5 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 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

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

#### Flammability, LSOH, Toxicity Testing

UL Flammability: NFPA 262

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: 8777

#### Variants

| Item #        | Color | UPC          | Footnote |
|---------------|-------|--------------|----------|
| 88777 002100  | Red   | 612825217428 | C        |
| 88777 0021000 | Red   | 612825217435 | C        |
| 88777 002500  | Red   | 612825217442 | C        |
| 88777 0025000 | Red   | 612825217459 |          |

Footnote: C - CRATE REEL PUT-UP.

## Product Notes

|        |   |
|--------|---|
| Notes: | Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc. |
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## History

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| Update and Revision: | Revision Number: 0.307 Revision Date: 08-22-2019 |
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