

**Part Number: 87777**

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

### Physical Characteristics (Overall)

#### Conductor

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

Conductor Count:	6
Conductor Size:	22 AWG

#### Insulation

Material	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	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	Stranded mm

#### Outer Shield Material

Material	Drainwire AWG
Unshielded	22

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVDF - Polyvinylidene Fluoride	0.234 in	0.014 in

### Electrical Characteristics

#### Conductor DCR

Individual Pair Nominal Shield DCR	Max. Conductor DCR
11.3 Ohm/1000ft	16 Ohm/100m

#### Capacitance

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

Shielding:	Individually Foiled + No Overall
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#### Inductance

Nominal Inductance
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0.18 µH/ft

#### Impedance

##### Nominal Characteristic Impedance

50 Ohm

#### Delay

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

69 ns/100m | 1.47 ns/ft | 69 %

#### Current

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

3.5 Amps per conductor @ 25°C A

#### Voltage

##### UL Voltage Rating

300 V RMS

### Temperature Range

Operating Temp Range: -20°C To +150°C

### Mechanical Characteristics

Bulk Cable Weight: 36 lbs/1000ft

Max Recommended Pulling Tension: 82 lbs

Min Bend Radius/Minor Axis: 2.5 in

### Standards

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

### 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

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

MII Order #39 (China RoHS): Yes

### Flammability, LSOH, Toxicity Testing

UL Flammability: NFPA 262 Plenum Flame Test (UL910)

CSA Flammability: FT6

### Plenum/Non-Plenum

Plenum (Y/N): Yes

### Part Number

Non-Plenum Number: 8777

#### Variants

Item #	Color	Footnote
87777 0021000	Red	C
87777 002500	Red	C

Footnote: C - CRATE REEL PUT-UP.

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