

**Part Number: 82778**

Audio, Control & Instrument, #22-6pr, FEP, Individ. Foil, LS-PVC 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	6

Conductor Count:	12
Conductor Size:	22 AWG

##### Insulation

Material	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.011 in

##### Color Chart

Number	Color
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue
5	Black & Yellow
6	Black & Brown

##### 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	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
LS PVC - Low Smoke Polyvinyl Chloride	Fiamarrest®	0.314 in	0.017 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
35 pF/ft	76 pF/ft

Shielding:	Individually Foiled + No Overall
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## Inductance

### Nominal Inductance

0.18 µH/ft

## Impedance

### Nominal Characteristic Impedance

46 Ohm

## Delay

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

62 ns/100m | 62 %

## Current

### Max. Recommended Current [A]

1.96 Amps per conductor @ 25°C A

## Voltage

### UL Voltage Rating

300V RMS

## Temperature Range

Operating Temp Range: 0°C To +60°C

## Mechanical Characteristics

Bulk Cable Weight: 67 lbs/1000ft

Min Bend Radius/Minor Axis: 3.25 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, LS0H, 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: 8778

## Variants

Item #	Color	Footnote
82778 8771000	NATURAL	C

Footnote: C - CRATE REEL PUT-UP.

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