



**Product:** [87778](#)

Audio, Control & Instrument, #22-6pr, FEP, Individ. Foil, PVDF Jkt, CMP

### Product Description

Audio, Control & Instrument Cable, 22 AWG stranded (7x30) tinned copper conductor, FEP insulation, 6 twisted pairs individually shielded with Beldfoil® (100% coverage), overall jacket per table below, 22 AWG stranded tinned copper drain wire.

### Technical Specifications

#### Product Overview

Suitable Applications:	extreme high temperature environments; chemical resistant; outdoor and burial applications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); line level audio; voice communications; panel wiring
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#### Construction Details

##### Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	6	22	7x30	TC - Tinned Copper

##### Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
FEP - Fluorinated Ethylene Propylene	0.01 in (0.25 mm)	0.049 in (1.2 mm)	Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown

##### Inner Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	22 AWG (19x34) TC

##### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVDF - Polyvinylidene Fluoride	0.014 in (0.36 mm)	0.309 in (7.85 mm)

#### Electrical Characteristics

##### Electricals

Nom. Conductor DCR	Max. 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
18.2 Ohm/1000ft	160 Ohm/km (49 Ohm/1000ft)	10.46 Ohm/1000ft (34.32 Ohm/km)	31 pF/ft (100 pF/m)	67 pF/ft (220 pF/m)	50 Ohm	69%	1.96 Amps per Conductor at 25°C

##### Voltage

<b>UL Voltage Rating</b>
300 V

#### Mechanical Characteristics

##### Temperature

UL Temperature	Operating
150°C	-20°C To +150°C

##### Bend Radius

<b>Stationary Min.</b>	<b>Installation Min.</b>
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3.09 in (78.5 mm)	3.09 in (78.5 mm)
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Max. Pull Tension:	109.2 lbs (49.53 kg)
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Bulk Cable Weight:	68 lbs/1000ft
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## Standards and Compliance

Flammability / Reaction to Fire:	NFPA 262 (UL910), FT6
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NEC / UL Compliance:	Article 800, CMP
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CEC / C(UL) Compliance:	CMP
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European Directive Compliance:	EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
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APAC Compliance:	China RoHS II (GB/T 26572-2011)
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Non-Plenum Number:	8778
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## History

Update and Revision:	Revision Number: 0.452 Revision Date: 01-20-2023
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## Part Numbers

### Variants

Item #	Color	UPC
87778 0021000	Red	612825216223
87778 002500	Red	612825216230

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