



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	No. of Elements	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 Impedence	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	
UL Voltage Rating	
300 V	

Mechanical Characteristics

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

Bend Radius	
Stationary Min.	Installation Min.

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)
Bulk Cable Weight:	68 lbs/1000ft

Standards and Compliance

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

History

Update and Revision:	Revision Number: 0.455 Revision Date: 12-22-2023
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Part Numbers

Variants

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

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