Belden



Product: 82777

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

Product Overview

Suitable Applications:	indoor plenum applications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, …); line level audio; voice communications; panel wiring

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	3	22	7x30	TC - Tinned Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
FEP - Fluorinated Ethylene Propylene	0.011 in (0.28 mm)	0.050 in (1.3 mm)	Black & Red, Black & White, Black & Green

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
PVC - Polyvinyl Chloride	0.017 in (0.43 mm)	0.237 in (6.02 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. Inductance	Nom. Velocity of Prop.	Max. Current
18.2 Ohm/1000ft	160 Ohm/km	10.46 Ohm/1000ft (34.32 Ohm/km)	35 pF/ft (110 pF/m)	76 pF/ft (250 pF/m)	46 Ohm	0.18 µH/ft (0.59 µH/m)	62%	1.96 Amps per Conductor at 25ºC

Voltage

UL Voltage Rating
300 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
90°C	0°C To +90°C

Bend Radius

Stationary Min.	Installation Min.
2.37 in (60.2 mm)	2.37 in (60.2 mm)

Max. Pull Tension:	64.1 lbs (29.1 kg)
Bulk Cable Weight:	36 lbs/1000ft

Standards and Compliance

Flammability / Reaction to Fire:	NFPA 262 (UL910), FT6, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	8777

History

Update and Revision:	Revision Number: 0.461 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	UPC	Footnote
82777 8771000	Natural	612825197829	C
82777 877U1000	Natural	612825197805	
82777 877U500	Natural	612825197812	

Footnote:	C - CRATE REEL PUT-UP.

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