Belden



Product: 8777

Audio, Control & Instrument, #22-3pr, PP, Indiv. Foil, PVC Jkt, CM

Product Description

Audio, Control & Instrument Cable, 3-Pair, 22 AWG stranded (7x30) tinned copper conductors, polypropylene insulation, individually shielded pairs (100% coverage), 22 AWG stranded tinned copper drain wire, PVC jacket.

Technical Specifications

Product Overview

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

Construction Details

Conductor

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

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PP - Polypropylene	0.011 in (0.28 mm)	0.050 in (1.3 mm)	Black & Red, Black & White, Black & Green

Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type	Notes
Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	22 AWG (7x30) TC	each pair

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.034 in (0.86 mm)	0.273 in (6.93 mm)

Overall Cable Diameter (Nominal):	0.273 in (6.93 mm)

Electrical Characteristics

Electricals

Element	Nom. 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
Pair(s)	18.2 Ohm/1000ft	12.39 Ohm/1000ft (40.65 Ohm/km)	30 pF/ft (98 pF/m)	55 pF/ft (180 pF/m)	50 Ohm	0.18 µH/ft (0.59 µH/m)	66%	2.8 Amps per Conductor at 25ºC

Voltage

UL Voltage Rating
300 V (CM), 30 V (UL AWM 2919)

Mechanical Characteristics

Temperature

UL Temperature	Operating	Storage
80°C	-20°C to +80°C	-40°C To +80 °C

Bend Radius

Stationary Min.	Installation Min.

2.7 in (69 mm)	2.7 in (69 mm)

Max. Pull Tension:	63.7 lbs (28.9 kg)
Bulk Cable Weight:	39 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL 1685 FT4 Loading, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
NEC / UL Compliance:	Article 800, CM
AWM Compliance:	AWM 2919
CEC / C(UL) Compliance:	CM.
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)
Plenum Number:	88777, 87777, 82777

History

Update and Revision:	Revision Number: 0.540 Revision Date: 02-20-2026

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC/EAN	Footnote
8777.0030	Chrome	Reel	30 m	8719605019493	
8777 060100	Chrome	Reel	100 ft	612825216087	
8777.00U152	Chrome	UnReel	152 m	8719605019516	
8777.01152	Chrome	Reel	152 m	8719605019530	
8777 060250	Chrome	Reel	250 ft	612825216124	C
8777.00305	Chrome	Reel	305 m	8719605019509	
8777.00U305	Chrome	UnReel	305 m	8719605019523	
8777.K0305	Chrome	Reel	305 m	8719605019554	
8777 060500	Chrome	Reel	500 ft	612825216148	C
8777 060U500	Chrome	UnReel	500 ft	612825216070	
8777 0601000	Chrome	Reel	1,000 ft	612825216094	C
8777 060U1000	Chrome	UnReel	1,000 ft	612825216063	
8777.001000	Chrome	Reel	1,000 m	8719605019486	
8777 0601640	Chrome	Reel	1,640 ft	612825216117	C
8777.013048	Chrome	Reel	3,048 m	8719605019547	
8777 0603280	Chrome	Reel	3,280 ft	612825216131	C
8777 0605000	Chrome	Reel	5,000 ft	612825216155	C
8777 06010000	Chrome	Reel	10,000 ft	612825216100	C Y

Footnote:	C - CRATE REEL PUT-UP., Y - FINAL PUT-UP LENGTH MAY VAR -10% TO +20% FROM LENGTH SHOWN. MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

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