



Product: [9877](#)

Audio, Control & Instrument, #20-12pr, PO, Individ. Foil, PVC Jkt, CM

### Product Description

Audio, Control & Instrument Cable, 20 AWG stranded (7x28) tinned copper conductors, polypropylene insulation, 12 twisted pairs, individually shielded with Beldfoil® (100% coverage), 22 AWG stranded tinned copper drain wire, overall 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
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#### Construction Details

##### Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	12	20 AWG	7x28	TC - Tinned Copper

##### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PP - Polypropylene	0.015 in (0.38 mm)	0.066 in (1.7 mm)	Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown, Black & Orange, Red & White, Red & Green, Red & Blue, Red & Yellow, Red & Brown

##### Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type	Notes
Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	22 AWG (19x34) TC	each pair

##### Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter
Polyester Tape	PVC - Polyvinyl Chloride	0.050 in (1.3 mm)	0.617 in (15.7 mm)

Overall Cable Diameter (Nominal):	0.617 in (15.7 mm)
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#### 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 Impedance	Nom. Velocity of Prop.	Max. Current
Pair(s)	11.3 Ohm/1000ft	11.7 Ohm/1000ft (38.4 Ohm/km)	30 pF/ft (98 pF/m)	55 pF/ft (180 pF/m)	50 Ohm	66%	2 Amps per Conductor at 25°C

##### Voltage

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

#### Mechanical Characteristics

##### Temperature

UL Temperature	Operating
80°C	-20°C to +80°C

##### Bend Radius

Stationary Min.	Installation Min.
6.2 in (160 mm)	6.2 in (160 mm)

Max. Pull Tension:	416 lbs (189 kg)
Bulk Cable Weight:	195 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	UL 1685 FT4 Loading, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: 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)

## History

Update and Revision:	Revision Number: 0.503 Revision Date: 04-19-2023
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## Part Numbers

### Variants

Item #	Color	UPC	Footnote
9877 060100	Chrome	612825259893	C
9877 0601000	Chrome	612825259909	C
9877 060500	Chrome	612825259916	C

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