

Product: 9777

Audio, Control & Instrument, #18-15pr, PO, Indiv. Foil, PVC Jkt, CM

Product Description

Audio, Control & Instrument Cable, 18 AWG stranded (19x30) tinned copper conductors, polypropylene insulation, 15 twisted pairs, individually shielded with Beldfoil® (100% coverage), 20 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)	15	18 AWG	19x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PP - Polypropylene	0.019 in (0.48 mm)	0.082 in (2.1 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, Red & Orange, Green & White, Green & Blue

Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type	Notes
Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC	each pair

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.052 in (1.3 mm)	0.819 in (20.8 mm)

Overall Cable Diameter (Nominal):	0.819 in (20.8 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. Velocity of Prop.	Max. Current
Pair(s)	7.2 Ohm/1000ft	8.3 Ohm/1000ft (27 Ohm/km)	30 pF/ft (98 pF/m)	55 pF/ft (180 pF/m)	50 Ohm	66%	2.7 Amps per Conductor at 25ºC

Voltage

UL Voltage Rating
300 V (CM), 30 V (AWM 2929)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
8.2 in (210 mm)	8.2 in (210 mm)

Max. Pull Tension:	930 lbs (420 kg)
Bulk Cable Weight:	350 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	UL 1685 FT4 Loading
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.471 Revision Date: 02-03-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
9777 060500	Chrome	Reel	500 ft	612825258629	C
9777 0601000	Chrome	Reel	1,000 ft	612825258612	C

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