



Product: [9774](#)

Audio, Control & Instrument, #18-6pr, PO, Individ. Foil, PVC Jkt, CM

Product Description

Audio, Control & Instrument Cable, 18 AWG stranded (19x30) tinned copper conductors, polypropylene insulation, 6 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
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Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	6	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

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

Separator	Material	Nom. Thickness	Nom. Diameter
Polyester Tape	PVC - Polyvinyl Chloride	0.052 in (1.3 mm)	0.560 in (14.2 mm)

Overall Cable Diameter (Nominal):	0.560 in (14.2 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)	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%	3.6 Amps per Conductor at 25°C

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.

5.6 in (140 mm) | 5.6 in (140 mm)

Max. Pull Tension: 372 lbs (169 kg)

Bulk Cable Weight: 158 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 2015/863/EU (RoHS 2 amendment), 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: 0.556 Revision Date: 04-19-2023

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
9774 060100	Chrome	Reel	100 ft	612825258506
9774 060500	Chrome	Reel	500 ft	612825258520
9774 0601000	Chrome	Reel	1,000 ft	612825258513
9774 0605000	Chrome	Reel	5,000 ft	612825258537

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