

Product: 9993

Audio, Control & Instrument, #24-12pr, PO, Indiv. Foil, PVC Jkt, CM

Product Description

Audio, Control & Instrument Cable, 24 AWG stranded (7x32) tinned copper conductors, polyethylene insulation, twisted pairs, 12 individually shielded with Beldfoil® (100% coverage), 24 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)	12	24	7x32	TC - Tinned Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
PE - Polyethylene	0.011 in (0.28 mm)	0.046 in (1.2 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

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.035 in (0.89 mm)	0.428 in (10.9 mm)

Electrical Characteristics

Electricals

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
28.8 Ohm/1000ft	15.8 Ohm/1000ft (51.8 Ohm/km)	25 pF/ft (82 pF/m)	47 pF/ft (150 pF/m)	60 Ohm	66%	1.1 Amps per Conductor at 25ºC

Voltage

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

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.

4.28 in (109 mm)	4.28 in (109 mm)

Max. Pull Tension:	137.5 lbs (62.37 kg)
Bulk Cable Weight:	98 lbs/1000ft

Standards and Compliance

Flammability / Reaction to Fire:	UL1685 UL 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: 0.458 Revision Date: 12-22-2023

Part Numbers

Variants

Item #	Color	UPC	Footnote
9993 060100	Chrome	612825267768	C
9993 0601000	Chrome	612825267775	C

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