



Product: [9775](#)

Audio, Control & Instrument, #18-9pr, PO, Individ. Foil, PVC Jkt, CM

### Product Description

Audio, Control & Instrument Cable, 18 AWG stranded (19x30) tinned copper conductors, polypropylene insulation, 9 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)	9	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

##### 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)	0.655 in (16.6 mm)

Overall Cable Diameter (Nominal):	0.655 in (16.6 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 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.
6.6 in (170 mm)	6.6 in (170 mm)

Max. Pull Tension:	558 lbs (253 kg)
Bulk Cable Weight:	244 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: 0.499 Revision Date: 02-03-2025
----------------------	--

## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
9775 060100	Chrome	Reel	100 ft	612825258544	
9775 060500	Chrome	Reel	500 ft	612825258568	C
9775 0601000	Chrome	Reel	1,000 ft	612825258551	C
9775 0605000	Chrome	Reel	5,000 ft	612825258575	

© 2025 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.