



**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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### Physical Characteristics (Overall)

#### Conductor

Element	AWG	Stranding	Material	No. of Pairs
Pair(s)	18	19x30	TC - Tinned Copper	6

Conductor Count:	12
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#### Insulation

Element	Material	Nominal Wall Thickness
Pair(s)	PP - Polypropylene	0.019 in

#### Color Chart

Number	Color
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue
5	Black & Yellow
6	Black & Brown

#### Inner Shield Material

Element	Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Pair(s)	Tape	Alum / Poly	Beldfoil® (Z-Fold®)	100 %	TC - Tinned Copper	20	Stranded

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.560 in	0.052 in

### Construction and Dimensions

#### Stranding

Lay Direction	Twists
Left Hand	6.9 twist/ft

### Electrical Characteristics

#### Conductor DCR

Individual Pair Nominal Shield DCR	Nominal Conductor DCR

8.3 Ohm/1000ft	6.4 Ohm/1000ft
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#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield	Nom. Mutual Capacitance
30 pF/ft	55 pF/ft	17 pF/ft

#### Inductance

Nominal Inductance
0.18 µH/ft

#### Impedance

Nominal Characteristic Impedance
50 Ohm

#### Delay

Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]
66 ns/100m	66 %

#### Current

Max. Recommended Current [A]
3.6 Per conductor @ 25°C

Current Table Note:	10C Temperature Rise
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#### Voltage

UL Description	UL Voltage Rating
CM	300 V
UL AWM 2929	30 V

#### Temperature Range

UL Temp Rating:	80°C (UL AWM 2919)
Operating Temp Range:	-20°C to +80°C

#### Mechanical Characteristics

Bulk Cable Weight:	158 lbs/1000ft
Max Recommended Pulling Tension:	354 lbs
Min Bend Radius/Minor Axis:	5.75 in

#### Standards

NEC Articles:	800
NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
UL AWM Style:	2919
CPR Euroclass:	Eca

#### Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

#### Suitability

Suitability - Indoor:	Yes
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#### Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT1

ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V (CM), 30 V (UL AWM 2919)

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Part Number

### 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

Footnote:	C - CRATE REEL PUT-UP.
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## History

Update and Revision:	Revision Number: 0.315 Revision Date: 05-19-2020
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