



**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, 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

AWG	Stranding	Material	No. of Pairs
18	19x30	TC - Tinned Copper	6

Conductor Count:	12
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##### Insulation

Material	Nominal Wall Thickness
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

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

##### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.56 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]
Per conductor @ 25°C: 3.6 A

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

UL Description	UL Voltage Rating
UL type CM	UL type CM: 300 V RMS
UL AWM 2919	30 V RMS (UL AWM 2919)

#### Temperature Range

UL Temp Rating:	80°C (UL AWM Style 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 (30 V 80°C)
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 RMS (CM)

**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: 0.311 Revision Date: 04-28-2020
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