



**Product:** [8770](#)

Electronic, 3 C #18 Str TC, PO Ins, OS, PVC Jkt, CM

[Request Sample](#)

## Product Description

Electronic, 3 Conductor 18AWG (16x30) Tinned Copper, PO Insulation, Overall Beldfoil® Shield, PVC Outer Jacket, CM

## Technical Specifications

### Product Overview

Suitable Applications:	low voltage analog signals (4-20ma, 0-10v, ...); low voltage control (24v, ...); line level audio; voice communications; panel wiring
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### Physical Characteristics (Overall)

#### Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	18	16x30	TC - Tinned Copper	3

Conductor Count:	3
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#### Insulation

Element	Material	Nominal Wall Thickness
Conductor(s)	PE - Polyethylene	0.018 in

#### Color Chart

Number	Color
1	Black
2	Red
3	Clear

#### Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Alum / Poly	Beldfoil® with shorting fold	100 %	TC - Tinned Copper	20	Stranded

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.246 in	0.033 in

### Construction and Dimensions

#### Cabling

Lay Direction	Twists
Left Hand	4.4 twist/ft

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
6.6 Ohm/1000ft	8.5 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield

24 pF/ft	48 pF/ft
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#### Inductance

<b>Nominal Inductance</b>
0.18 µH/ft

#### Impedance

<b>Nominal Characteristic Impedance</b>
69 Ohm

#### Current

Element	Max. Recommended Current [A]
10C temperature rise	5.3 Amps per conductor @ 25°C ambient

#### Voltage

<b>UL Voltage Rating</b>
300 V RMS

### Temperature Range

UL Temp Rating:	60°C (UL AWM Style 2093)
Operating Temp Range:	-20°C To +60°C

### Mechanical Characteristics

Bulk Cable Weight:	36 lbs/1000ft
Max Recommended Pulling Tension:	74 lbs
Min Bend Radius/Minor Axis:	2.5 in

### Standards

NEC Articles:	800
NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
UL AWM Style:	UL Style 2093 (300 V 60°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
CA Prop 65:	Yes
MII Order #39 (China RoHS):	Yes

### Suitability

Suitability - Indoor:	Yes
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### Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT1
ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

### Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	88770

### Part Number

## Variants

Item #	Color	Putup Type	Length	UPC/EAN
8770.023048	Black	Reel	3,048 m	8719605019226
8770.00U152	Chrome	UnReel	152 m	8719605019172
8770.011152	Chrome	Reel	152 m	8719605019196
8770.00U305	Chrome	UnReel	305 m	8719605019189
8770.01305	Chrome	Reel	305 m	8719605019219
8770 060500	Chrome	Reel	500 ft	612825215653
8770 060U500	Chrome	UnReel	500 ft	612825215592
8770 0601000	Chrome	Reel	1,000 ft	612825215608
8770 060U1000	Chrome	UnReel	1,000 ft	612825215585
8770.013048	Chrome	Reel	3,048 m	8719605019202
8770 0605000	Chrome	Reel	5,000 ft	612825215660
8770 06010000	Chrome	Reel	10,000 ft	612825215615
8770 06012000	Chrome	Reel	12,000 ft	612825215646

Footnote: C - CRATE REEL PUT-UP.

Footnote: Y - FINAL PUT-UP LENGTH MAY VAR -10% TO +20% FROM LENGTH SHOWN. MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

## History

Update and Revision: Revision Number: 0.312 Revision Date: 05-11-2020

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