



**Part Number: 8770**

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

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## Product Description

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

## Technical Specifications

### Physical Characteristics (Overall)

Conductor			
AWG	Stranding	Material	No. of Conductors
18	16x30	TC - Tinned Copper	3
Conductor Count:		3	
Conductor Size:		18 AWG	

Insulation	
Material	Nominal Wall Thickness
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	Aluminum/Polyester	Beldfoil® with shorting fold	100 %	TC - Tinned Copper	20	Stranded mm

### 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

### Inductance

Nominal Inductance
0.18 µH/ft

#### Impedance

Nominal Characteristic Impedance
69 Ohm

#### Current

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

#### Voltage

UL Voltage Rating
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 (CJ for Wire & Cable):	Yes
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

### Plenum/Non-Plenum

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

### Part Number

#### Variants

Item #	Color	UPC	Length	Footnote
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8770.023048	Black		3,048 m	
8770.00U152	Chrome		152 m	
8770.00U305	Chrome		305 m	
8770.01152	Chrome		152 m	
8770.013048	Chrome		3,048 m	
8770.01305	Chrome		305 m	
8770 0601000	Chrome	612825215608	1,000 ft	C
8770 06010000	Chrome	612825215615	10,000 ft	C Y
8770 06012000	Chrome	612825215646	12,000 ft	C Y
8770 060500	Chrome	612825215653	500 ft	C
8770 0605000	Chrome	612825215660	5,000 ft	
8770 060U1000	Chrome	612825215585	1,000 ft	
8770 060U500	Chrome	612825215592	500 ft	

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'.

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