


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

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

[Request Sample](#)
**Product Description**

Electronic, 3 Conductor 18AWG (16x30) Tinned Copper, PE 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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**Construction Details**
**Conductor**

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

**Insulation**

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PE - Polyethylene	0.018 in (0.46 mm)	0.082 in (2.1 mm)	Black, Red, Clear

**Outer Shield**

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC

**Outer Jacket**

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.033 in (0.84 mm)	0.246 in (6.25 mm)

Overall Cable Diameter (Nominal): 0.246 in (6.25 mm)

**Electrical Characteristics**
**Electricals**

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Nom. Inductance	Max. Current
Conductor(s)	7.06 Ohm/1000ft	24 pF/ft (79 pF/m)	48 pF/ft (160 pF/m)	69 Ohm	0.18 $\mu$ H/ft (0.59 $\mu$ H/m)	14 Amps per Conductor at 30°C
Nom Outer Shield DCR@Cond DCR1-cnv:		8.08 Ohm/1000ft (26.5 Ohm/km)				

**Voltage**

UL Voltage Rating
300 V (CM), 300 V (UL AWM 2093)

**Mechanical Characteristics**
**Temperature**

UL Temperature	Operating
60°C	-20°C to +60°C

**Bend Radius**

Stationary Min.	Installation Min.
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0.16 in (4.1 mm)

2.5 in (64 mm)

Max. Pull Tension: 75 lbs (34 kg)

Bulk Cable Weight: 36 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL 1685 UL loading , IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
NEC / UL Compliance:	Article 800, CM
AWM Compliance:	AWM 2093
CEC / C(UL) Compliance:	CM
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
Plenum Number:	88770

## History

Update and Revision: Revision Number: 0.532 Revision Date: 09-07-2025

## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC/EAN	Footnote
8770.023048	Black	Reel	3,048 m	8719605019226	
8770.00U152	Chrome	UnReel	152 m	8719605019172	
8770.01152	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	C
8770 060U500	Chrome	UnReel	500 ft	612825215592	
8770 0601000	Chrome	Reel	1,000 ft	612825215608	C
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	C Y
8770 06012000	Chrome	Reel	12,000 ft	612825215646	C Y

Footnote: C - CRATE REEL PUT-UP., 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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