



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		

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

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:	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

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Variants

Item #	Color	Putup Type	Length	UPC/EAN
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
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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