



REPRESENTATIVE IMAGE

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	Number of Element	Size	Stranding	Material
Conductor(s)	3	18 AWG	16x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Conductor(s)	PE - Polyethylene	0.018 in (0.46 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)
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Max. Current
Conductor(s)	6.6 Ohm/1000ft (22 Ohm/km)	24 pF/ft (79 pF/m)	48 pF/ft (160 pF/m)	69 Ohm	5.3 Amps per Conductor at 25°C

Voltage

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

Mechanical Characteristics

Temperature

UL Temperature	Operating
60°C (UL AWM 2093)	-20°C to +60°C

Bend Radius

Stationary Min.	Installation Min.
0.16 in (4.1 mm)	2.5 in (64 mm)

Max. Pull Tension:	74 lbs (34 kg)
Bulk Cable Weight:	36 lbs/1000ft (54 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 UL Loading, FT1, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CM
AWM Compliance:	AMW 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)
Plenum Number:	88770

History

Update and Revision:	Revision Number: 0.376 Revision Date: 12-15-2021
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Part Numbers

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

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