



Part Number: 8770

Audio/Control/Instrumentation, (3) 18 AWG 16x30) TC, PE/PVC, Foil Shld, CM

Product Description

Three 18 AWG stranded (16x30) tinned copper conductors, conductors cabled, polyethylene insulation, overall Beldfoil® shield (100% coverage), PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
18	16x30	TC - Tinned Copper	3

Total Number of Conductors: 3

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 Foil-Polyester Tape w/Shorting Fold	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

Electrical Characteristics

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
24 pF/ft	48 pF/ft

Construction and Dimensions

Conductor DCR

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

Impedance

Nominal Characteristic Impedance
69 Ohm

Current

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

Inductance

Nominal Inductance
0.18 µH/ft

Voltage

UL Voltage Rating
300V RMS

Applicable Standards & Environmental Programs

CEC/C(UL) Specification:	CM
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
CPR Euroclass:	Eca
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Standards

NEC Articles:	800
NEC/(UL) Specification:	CM
UL AWM Style:	UL Style 2093 (300 V 60°C)

Flame Test

CSA Flammability:	FT1
UL Flammability:	UL1685 UL Loading

Safety

UL Voltage Rating:	300 V RMS
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Suitability

Suitability - Indoor:	Yes
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Mechanical Characteristics

Operating Temp Range:	-20°C To +60°C
Bulk Cable Weight:	36(lbs/1000ft)
Max Recommended Pulling Tension:	74(lbs)
Min Bend Radius/Minor Axis:	2.5(in)

Temperature Range

UL Temp Rating:	60°C (UL AWM Style 2093)
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Plenum/Non-Plenum

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

Variants

Item #	Color
8770.023048	BLACK
8770.00U152	CHROME
8770.00U305	CHROME
8770.01152	CHROME
8770.013048	CHROME
8770.01305	CHROME
8770 0601000	CHROME
8770 06010000	CHROME
8770 06012000	CHROME
8770 060500	CHROME
8770 0605000	CHROME
8770 060U1000	CHROME
8770 060U500	CHROME

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