



**Part Number:** 8690

Audio/Control/Instrumentation, (3 pr) 18 AWG (16x30)  
TC, PVC/PVC, CMG

## Product Description

Three 18 AWG pairs stranded (16x30) tinned copper conductors, twisted pairs, PVC insulation, PVC jacket.

## Product Specifications

## Technical Specifications

### Construction and Dimensions

#### Conductor:

AWG	Stranding	Material	No. of Pairs
18	16x30	TC - Tinned Copper	3
<b>Total Number of Conductors:</b>			6

#### Insulation:

Material	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.013 in

#### Color Chart 1:

Number	Color
1	Black & Red
2	Black & White
3	Black & Green

#### Stranding:

Lay Length	Lay Direction	Twists
2 in	Left Hand	6 twist/ft

#### Innershield:

Material
Unshielded

#### Outershield 1:

Material
Unshielded

#### Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.347 in	0.032 in

## Electrical Characteristics

#### Conductor DCR:

Nominal Conductor DCR
5.86 Ohm/1000ft

#### Capacitance:

Nom. Capacitance Conductor to Conductor
25.5 pF/ft

#### Current:

Element	Max. Recommended Current [A]
10C Temperature Rise	3.4 Amps per conductor @ 25°C ambient

#### Inductance:

Nominal Inductance
0.17 $\mu$ H/ft

#### Voltage:

UL Voltage Rating
300 V RMS

## Use

Suitability - Indoor:	Yes
Max Recommended Pulling Tension:	134 lbs

## Safety

CSA Flammability:	FT4
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## Temperature Range

Non-UL Temp Rating:	80°C (UL AWM Style 2464)
Operating Temp Range:	-20°C To +80°C

## Mechanical Characteristics

Min Bend Radius/Minor Axis:	3.5 in
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## Part Number

Plenum (Y/N):	No
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## Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
CEC/C(UL) Specification:	CEC/C(UL) Specification
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
NEC Articles:	NEC Articles
NEC/(UL) Specification:	NEC/(UL) Specification
UL AWM Style:	AWM Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

## History

## Product Variants

Part Number	Color	Put-Up Type	Length
8690 0601000	CHROME	Reel	1000 ft
8690 060100	CHROME	Reel	100 ft
8690 0605000	CHROME	Reel	5000 ft
8690 060500	CHROME	Reel	500 ft
8690 060U500	CHROME	UnReel	500 ft

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