

## 8690 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information  
please call

1-800-Belden1



### General Description:

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

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
3	18	16x30	TC - Tinned Copper

Total Number of Conductors: 6

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.013

#### Inner Shield

Inner Shield Material:

Inner Shield Material
Unshielded

#### Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.032

#### Overall Cable

Overall Nominal Diameter: 0.347 in.

#### Pair

Pair Color Code Chart:

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

Pair Lay Length & Direction:

Lay Length (in.)	Twists (twist/ft)	Direction
2.000	6.000	Left Hand

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
Non-UL Temperature Rating:	80°C (UL AWM Style 2464)
Bulk Cable Weight:	61 lbs/1000 ft.
Max. Recommended Pulling Tension:	134 lbs.
Min. Bend Radius/Minor Axis:	3.500 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG
NEC Articles:	800
CEC/C(UL) Specification:	CMG
AWM Specification:	UL Style 2464 (300 V 80°C)

## 8690 Multi-Conductor - Audio, Control and Instrumentation Cable

EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MIL Order #39 (China RoHS):	Yes

### Flame Test

CSA Flame Test:	FT4
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### Suitability

Suitability - Indoor:	Yes
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### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Nom. Inductance:

Inductance (µH/ft)
0.17

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
25.5

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
5.86

### Max. Operating Voltage - UL:

Voltage
300 V RMS

### Max. Recommended Current:

Description	Current
10C Temperature Rise	3.4 Amps per conductor @ 25°C ambient

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8690 060U500	500 FT	32.500 LB	CHROME		3 PR #18 PVC FRPVC
8690 060100	100 FT	7.000 LB	CHROME		3 PR #18 PVC FRPVC
8690 0601000	1,000 FT	65.000 LB	CHROME	C	3 PR #18 PVC FRPVC
8690 060500	500 FT	34.000 LB	CHROME	C	3 PR #18 PVC FRPVC
8690 0605000	5,000 FT	350.000 LB	CHROME		3 PR #18 PVC FRPVC

### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 08-07-2013

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