

## 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 (mm)
PVC - Polyvinyl Chloride	0.330

#### 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 (mm)
PVC - Polyvinyl Chloride	0.8128

#### Overall Cable

Overall Nominal Diameter: 8.814 mm

#### Pair

##### Pair Color Code Chart:

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

##### Pair Lay Length & Direction:

Lay Length (mm)	Twists (twist/m)	Direction
50.800	19.686	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: 90.780 Kg/Km

Max. Recommended Pulling Tension: 596.059 N

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

Min. Bend Radius/Minor Axis: 88.900 mm

### 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)
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
MII Order #39 (China RoHS):	Yes

#### Flame Test

CSA Flame Test:	FT4
-----------------	-----

#### Suitability

Suitability - Indoor:	Yes
-----------------------	-----

#### Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

### Electrical Characteristics (Overall)

#### Nom. Inductance:

Inductance (µH/m)

0.55777

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

83.6655

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

19.2267

#### 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	152 MT	14.742 KG	CHROME		3 PR #18 PVC FRPVC
8690 060100	30 MT	3.175 KG	CHROME		3 PR #18 PVC FRPVC
8690 0601000	305 MT	29.484 KG	CHROME	C	3 PR #18 PVC FRPVC
8690 060500	152 MT	15.422 KG	CHROME	C	3 PR #18 PVC FRPVC
8690 0605000	1,524 MT	158.758 KG	CHROME		3 PR #18 PVC FRPVC

#### Notes:

C = CRATE REEL PUT-UP.

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

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

© 2013 Belden, Inc.  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.