Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



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:

I	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	

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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	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	С	3 PR #18 PVC FRPVC
8690 060500	500 FT	34.000 LB	CHROME	С	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.

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

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