

## 9156 Multi-Conductor - Audio, Control and Instrumentation Cable



### Description:

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

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material
2	18	16x30	TC - Tinned Copper

#### Insulation

##### Insulation Material:

Insulation Material	Wall Thickness (in.)
PVC - Polyvinyl Chloride	.014

#### Inner Shield

##### Inner Shield Material:

Inner Shield Material
Unshielded

#### Outer Shield

##### Outer Shield Material:

CEC/C(UL) Specification:

CMG

Outer Shield Material
Unshielded

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.035

#### Overall Cabling

Overall Nominal Diameter: 0.333 in.

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & White

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
Non-UL Temperature Rating:	80°C (UL AWM Style 2464)
Bulk Cable Weight:	44.100 lbs/1000 ft.
Max. Recommended Pulling Tension:	90 lbs.
Min. Bend Radius (Install)/Minor Axis:	3.250 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG

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<b>AWM Specification:</b>	UL Style 2464 (300 V 80°C)
<b>EU CE Mark:</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	04/01/2005
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes

### Flame Test

<b>C(UL) Flame Test:</b>	FT4
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### Plenum/Non-Plenum

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

### 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 (UL AWM Style 2464)

### Max. Recommended Current:

Current

3.9 Amps per conductor @ 20°C

## Put Ups and Colors:

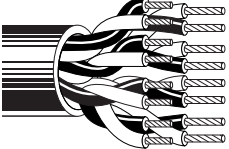
Item #	Putup	Ship Weight	Color	Notes	Item Desc
9156 060U1000	1,000 FT	49.000 LB	CHROME		2 #18 PR PVC PVC
9156 060U500	500 FT	25.000 LB	CHROME		2 #18 PR PVC PVC
9156 0601000	1,000 FT	51.000 LB	CHROME	C	2 #18 PR PVC PVC
9156 060500	500 FT	27.000 LB	CHROME	C	2 #18 PR PVC PVC

### Notes:

C = CRATE REEL PUT-UP.

# Unshielded

## Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	
<b>18 AWG Stranded (16x30) Tinned Copper Conductors • Twisted Pairs</b>															
<b>PVC Insulation • Chrome PVC Jacket</b>															
 <p>UL AWM Style 2464 (300V 80°C)</p>	<b>9740</b>	NEC:	1	See Chart 3 (Tech Info Section)	U-500	U-152.4	12.5	5.7	.014	.36	.032	.81	.210	5.33	
		CMG:			500	152.4	12.5	5.7							
		CEC:			U-1000	U-304.8	24.0	10.9							
		CMG FT4				1000	304.8	24.0	10.9	For Plenum versions of 9740, see 89740, 87740 or 82740.					
	<b>9156</b>	NEC:	2	See Chart 3 (Tech Info Section)	U-500	U-152.4	25.0	11.3	.014	.36	.035	.89	.333	8.46	
		CMG:			500	152.4	27.0	12.2							
		CEC:			U-1000	U-304.8	49.0	22.2							
		CMG FT4				1000	304.8	51.0	23.2						
	<b>8690</b>	NEC:	3	See Chart 3 (Tech Info Section)	100	30.5	7.0	3.2	.014	.36	.032	.81	.347	8.81	
		CMG:			U-500	U-152.4	32.5	14.8							
		CEC:			500	152.4	34.0	15.4							
		CMG FT4				1000	304.8	65.0	29.5						
	<b>9157</b>	NEC:	4	See Chart 3 (Tech Info Section)	100	30.5	8.4	3.8	.014	.36	.032	.81	.381	9.68	
		CMG:			500	152.4	41.0	18.6							
		CEC:			1000	304.8	83.0	37.7							
	CMG FT4														
<b>9159</b>	NEC:	5	See Chart 3 (Tech Info Section)	500	152.4	50.0	22.7	.014	.36	.032	.81	.391	9.93		
	CMG:			1000	304.8	99.0	45.0								
	CEC:														
	CMG FT4														
<b>8691</b>	NEC:	6	See Chart 3 (Tech Info Section)	500	152.4	58.0	26.4	.014	.36	.032	.81	.433	11.00		
	CMG:			1000	304.8	115.0	52.3								
	CEC:														
	CMG FT4														
<b>9161</b>	NEC:	8	See Chart 3 (Tech Info Section)	100	30.5	14.2	6.4	.014	.36	.037	.94	.485	12.32		
	CMG:			500	152.4	78.0	35.6								
	CEC:			1000	304.8	152.0	69.3								
	CMG FT4														
<b>8692</b>	NEC:	9	See Chart 3 (Tech Info Section)	500	152.4	87.0	39.5	.014	.36	.040	1.02	.524	13.31		
	CMG:			1000	304.8	170.0	77.3								
	CEC:														
	CMG FT4														
<b>9741</b>	NEC:	12	See Chart 3 (Tech Info Section)	100	30.5	25.4	11.5	.014	.36	.046	1.17	.600	15.24		
	CMG:			1000	304.8	220.0	99.8								
	CEC:														
	CMG FT4														
<b>9742</b>	NEC:	15	See Chart 3 (Tech Info Section)	100	30.5	30.9	14.0	.014	.36	.051	1.30	.677	17.20		
	CMG:			500	152.4	146.5	66.5								
	CEC:			1000	304.8	291.0	132.0								
	CMG FT4														
<b>9743</b>	NEC:	19	See Chart 3 (Tech Info Section)	100	30.5	37.0	16.8	.014	.36	.055	1.40	.721	18.31		
	CMG:			500	152.4	179.0	81.4								
	CEC:			1000	304.8	355.0	161.4								
	CMG FT4														