

9161 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
8	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:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.037

Overall Cabling

Overall Nominal Diameter: 0.485 in.

Pair

Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue
5	Black & Yellow
6	Black & Brown
7	Black & Orange
8	Red & 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:	137.200 lbs/1000 ft.
Max. Recommended Pulling Tension:	358 lbs.

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Min. Bend Radius (Install)/Minor Axis: 4.750 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMG

CEC/C(UL) Specification: CMG

AWM Specification: UL Style 2464 (300 V 80°C)

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

C(UL) Flame Test: FT4

Plenum/Non-Plenum

Plenum (Y/N): No

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

3.4 Amps per conductor @ 20°C

Put Ups and Colors:

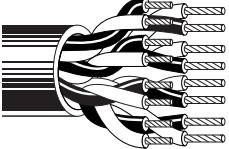
Item #	Putup	Ship Weight	Color	Notes	Item Desc
9161 060100	100 FT	14.200 LB	CHROME	C	8 PR #18 PVC FRPVC
9161 0601000	1,000 FT	152.000 LB	CHROME	C	8 PR #18 PVC FRPVC
9161 060500	500 FT	78.000 LB	CHROME	C	8 PR #18 PVC FRPVC

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	
18 AWG Stranded (16x30) Tinned Copper Conductors • Twisted Pairs															
PVC Insulation • Chrome PVC Jacket															
 <p>UL AWM Style 2464 (300V 80°C)</p>	9740	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.					
	9156	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						
	8690	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						
	9157	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													
9159	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													
8691	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													
9161	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													
8692	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													
9741	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													
9742	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													
9743	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													