

9309 Multi-Conductor - Audio, Control and Instrumentation Cable

**Description:**

22 AWG solid tinned copper conductors, PVC insulation, twisted pairs, overall Beldfoil shield (100% coverage), 22 AWG stranded TC drain wire, PVC jacket.

Physical Characteristics (Overall)**Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material
9	22	Solid	TC - Tinned Copper

Insulation**Insulation Material:**

Insulation Material	Wall Thickness (in.)
PVC - Polyvinyl Chloride	.013

Outer Shield**Outer Shield Material:**

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire	Conductor Material
22	7x30		TC - Tinned Copper

Outer Jacket**Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.033

Overall Cabling

Overall Nominal Diameter: 0.363 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
9	Red & Green

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2464)
Bulk Cable Weight:	80.100 lbs/1000 ft.
Max. Recommended Pulling Tension:	149 lbs.

9309 Multi-Conductor - Audio, Control and Instrumentation Cable

Min. Bend Radius (Install)/Minor Axis:	3.730 in.
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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

UL Flame Test:	UL1685 FT4 Loading
C(UL) Flame Test:	FT4

Plenum/Non-Plenum

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

Nom. Inductance:

Inductance (µH/ft)
.02

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
50

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
35

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
16.5

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
12.5

Max. Operating Voltage - UL:

Voltage
300 V RMS (UL AWM Style 2464)

Max. Recommended Current:

Current
1.4 Amps per conductor @ 25°C

Put Ups and Colors:

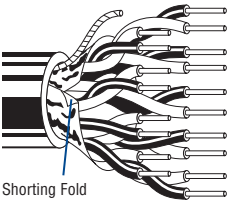
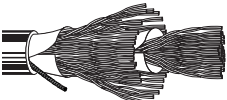
Item #	Putup	Ship Weight	Color	Notes	Item Desc
9309 0601000	1,000 FT	86.000 LB	CHROME	C	9 #22 PR FS PVC
9309 060500	500 FT	44.500 LB	CHROME	C	9 #22 PR FS PVC

Notes:

C = CRATE REEL PUT-UP.

Overall Beldfoil® Shield

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		Nominal Capacitance				
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m	
22 AWG Solid Tinned Copper Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire																			
PVC Insulation • Chrome PVC Jacket																			
 Shorting Fold	9302	NEC:	2	See Chart 3 (Tech Info Section)	U-500	U-152.4	15.5	7.0	.013	.33	.032	.81	.244	6.20	35	115	50	164	
		CMG			500	152.4	15.0	6.8											
		CEC:			U-1000	U-304.8	29.0	13.2											
		CMG FT4			1000	304.8	31.0	14.1											
		9305	NEC:	4	See Chart 3 (Tech Info Section)	100	30.5	4.9	2.2	.013	.33	.032	.81	.265	6.73	35	115	50	164
			CMG			U-500	U-152.4	22.0	10.0										
			CEC:			500	152.4	22.5	10.2										
			CMG FT4			U-1000	U-304.8	43.0	19.5										
9306	NEC:	6	See Chart 3 (Tech Info Section)	500	152.4	31.5	14.3	.013	.33	.032	.81	.315	8.00	35	115	50	164		
	CMG			1000	304.8	62.0	28.2												
	CEC:																		
	CMG FT4																		
9309	NEC:	9	See Chart 3 (Tech Info Section)	500	152.4	44.5	20.2	.013	.33	.033	.84	.363	9.22	35	115	50	164		
	CMG			1000	304.8	86.0	39.1												
	CEC:																		
	CMG FT4																		
9315	NEC:	15	See Chart 3 (Tech Info Section)	500	152.4	67.0	30.5	.013	.33	.037	.94	.449	11.41	35	115	50	164		
	CMG			1000	304.8	133.0	60.5												
	CEC:																		
	CMG FT4																		
9319	NEC:	19	See Chart 3 (Tech Info Section)	500	152.4	85.0	38.6	.013	.33	.040	1.02	.495	12.57	35	115	50	164		
	CMG			1000	304.8	165.0	75.0												
	CEC:																		
	CMG FT4																		
9327	NEC:	27	See Chart 3 (Tech Info Section)	500	152.4	116.0	52.7	.013	.33	.045	1.14	.615	15.62	35	115	50	164		
	CMG			1000	304.8	230.0	104.5												
	CEC:																		
	CMG FT4																		
300V RMS, 60°C	8751	NEC: CMG CEC: CMG FT4	51	Request Technical Bulletin T/8-4	1000†	304.8	384.0	174.5	.010	.25	.050	1.27	.710	18.03	30	98	42.8	140	
																			
For 38-pair polypropylene version of 8751, see 8752.																			

For 38-pair polypropylene version of 8751, see 8752.

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/Ft.	* pF/m	** pF/Ft.	** pF/m
22 AWG Solid Tinned Copper Conductors • Twisted Pairs • Duofoil® Shield (100% Coverage) • 22 AWG Stranded Tinned Copper Drain Wire																		
Datalene® Insulation • Black PVC Jacket																		
UL AWM Style 2668 (300V 60°C)	9184	NEC: CM CEC: CM	2	Black & Yellow, Red & Blue	500 1000	152.4 304.8	29.0 59.0	13.2 26.8	16.5Ω/M' 54.13Ω/km	8.0Ω/M' 26.2Ω/km	.385 9.78	150	78%	8.7	28.5	14.1	46.3	
																		

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to shield.

† Spools are one piece, but length may vary -0 to +20% from length shown.

Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.