

9184 Multi-Conductor - Audio, Control and Instrumentation Cable

**Description:**

22 AWG solid tinned copper conductors, Datalene® insulation, twisted pairs, Duofoil shield (100% coverage), 22 AWG stranded tinned copper drain wire, PVC jacket.

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

# Pairs	AWG	Stranding	Conductor Material
2	22	Solid	TC - Tinned Copper

Insulation**Insulation Material:**

Insulation Trade Name	Insulation Material
Datalene®	FPE - Foam Polyethylene

Outer Shield**Outer Shield Material:**

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	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
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 0.385 in.

Pair**Pair Color Code Chart:**

Number	Color
1	Black & Yellow
2	Red & Blue

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +75°C
UL Temperature Rating:	60°C (UL AWM Style 2668)
Bulk Cable Weight:	49.300 lbs/1000 ft.
Max. Recommended Pulling Tension:	40 lbs.
Min. Bend Radius (Install)/Minor Axis:	4 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CM

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CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 2668 (300 V 60°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):	10/13/2005
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 UL Loading
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Electrical Characteristics (Overall)**Nom. Characteristic Impedance:**

Impedance (Ohm)
150

Nom. Inductance:

Inductance (μH/ft)
0.27

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
14.1

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
8.7

Nominal Velocity of Propagation:

VP (%)
78

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
16.5

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
8

Max. Operating Voltage - UL:

Voltage
300 V RMS (UL AWM Style 2668)

Max. Recommended Current:

Current
2.6 Amps per conductor @ 25°C

Put Ups and Colors:

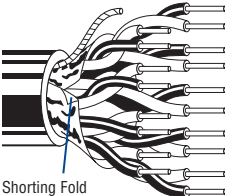
Item #	Putup	Ship Weight	Color	Notes	Item Desc
9184 0101000	1,000 FT	59.000 LB	BLACK	C	4 #22 FRFPE SHLD PVC
9184 010500	500 FT	29.000 LB	BLACK	C	4 #22 FRFPE SHLD PVC

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											
 300V RMS, 60°C	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																
8751	NEC:	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	
	CMG																	
	CEC:																	
	CMG FT4																	

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

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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	2	Black & Yellow,	500	152.4	29.0	13.2	16.5Ω/M'	8.0Ω/M'	.385	9.78	150	78%	8.7	28.5	14.1	46.3
		CEC:		Red &														
		CM		Blue														

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.