

## 9306 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
6	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	.032

#### Overall Cabling

Overall Nominal Diameter: 0.315 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

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2464)
Bulk Cable Weight:	57.700 lbs/1000 ft.
Max. Recommended Pulling Tension:	102 lbs.
Min. Bend Radius (Install)/Minor Axis:	3.200 in.

## 9306 Multi-Conductor - Audio, Control and Instrumentation Cable

### 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)

0.2

#### 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

2.04 Amps per conductor @ 25°C

### Put Ups and Colors:

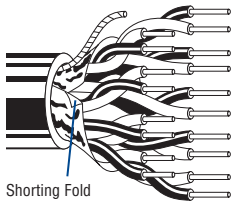
Item #	Putup	Ship Weight	Color	Notes	Item Desc
9306 0601000	1,000 FT	62.000 LB	CHROME	C	6 #22 PR SHLD PVC
9306 060500	500 FT	31.500 LB	CHROME		6 #22 PR SHLD PVC

#### 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	
<b>22 AWG Solid Tinned Copper Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire</b>																			
<b>PVC Insulation • Chrome PVC Jacket</b>																			
 <p>Shorting Fold</p>	9302	UL AWM Style 2464 (300V 80°C)	NEC: 2	See	U-500	U-152.4	15.5	7.0	.013	.33	.032	.81	.244	6.20	35	115	50	164	
		CMG	Chart 3	500	152.4	15.0	6.8												
		CEC: CMG FT4	(Tech Info Section)	1000	304.8	29.0	13.2												
	9305	NEC: 4	See	100	30.5	4.9	2.2	.013	.33	.032	.81	.265	6.73	35	115	50	164		
		CMG	Chart 3	U-500	U-152.4	22.0	10.0												
		CEC: CMG FT4	(Tech Info Section)	500	152.4	22.5	10.2												
	9306	NEC: 6	See	500	152.4	31.5	14.3	.013	.33	.032	.81	.315	8.00	35	115	50	164		
		CMG	Chart 3	1000	304.8	62.0	28.2												
		CEC: CMG FT4	(Tech Info Section)																
	9309	NEC: 9	See	500	152.4	44.5	20.2	.013	.33	.033	.84	.363	9.22	35	115	50	164		
CMG		Chart 3	1000	304.8	86.0	39.1													
CEC: CMG FT4		(Tech Info Section)																	
9315	NEC: 15	See	500	152.4	67.0	30.5	.013	.33	.037	.94	.449	11.41	35	115	50	164			
	CMG	Chart 3	1000	304.8	133.0	60.5													
	CEC: CMG FT4	(Tech Info Section)																	
9319	NEC: 19	See	500	152.4	85.0	38.6	.013	.33	.040	1.02	.495	12.57	35	115	50	164			
	CMG	Chart 3	1000	304.8	165.0	75.0													
	CEC: CMG FT4	(Tech Info Section)																	
9327	NEC: 27	See	500	152.4	116.0	52.7	.013	.33	.045	1.14	.615	15.62	35	115	50	164			
	CMG	Chart 3	1000	304.8	230.0	104.5													
	CEC: CMG FT4	(Tech Info Section)																	
300V RMS, 60°C	8751	NEC: 51	Request	1000†	304.8	384.0	174.5	.010	.25	.050	1.27	.710	18.03	30	98	42.8	140		
		CMG	Technical																
		CEC: CMG FT4	Bulletin																

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	
<b>22 AWG Solid Tinned Copper Conductors • Twisted Pairs • Duofoil® Shield (100% Coverage) • 22 AWG Stranded Tinned Copper Drain Wire</b>																			
<b>Datalene® Insulation • Black PVC Jacket</b>																			
	9184	UL AWM Style 2668 (300V 60°C)	NEC: 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	
		CM	Red & Blue	1000	304.8	59.0	26.8	54.13Ω/km	26.2Ω/km										
		CEC: CM																	

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.