

**High-Temperature**

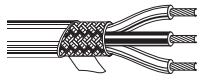
## Overall Braid Shield — Control and Instrumentation Cables

## MIL-W-16878/4 (Type E) — Individual Conductors

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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

**26 AWG** Stranded (7x34) Silver-plated Copper Conductors • Cabled and Color-coded • Silver-plated Copper Braid Shield (85% Coverage)

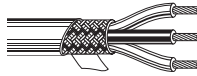
**Extruded TFE Teflon® Insulation • White TFE Teflon Tape-wrapped Jacket**

600V RMS -65°C to 200°C VW-1 	<b>83303E</b>	—	1	White	500 <sup>††</sup>	152.4	3.5	1.6	.010	.25	.010	.25	.076	1.93	—	—	44.6	146		
					1000 <sup>▲</sup>	304.8	6.0	2.7												
	<b>83317E</b>	—	2	White, Black	100 <sup>†</sup>	30.5	1.4	0.6	.010	.25	.011	.28	.121	3.07	20.8	68	35.5	116		
					500 <sup>††</sup>	152.4	6.5	3.0												
1000 <sup>▲</sup>					304.8	14.0	6.4													
<b>83332E</b>	—	3	White, Black, Red	100 <sup>†</sup>	30.5	1.7	0.8	.010	.25	.011	.28	.127	3.23	18.8	62	31.4	103			
				1000 <sup>▲</sup>	304.8	17.0	7.7													
<b>83347E</b>	—	4	White, Black, Red, Green	100 <sup>†</sup>	30.5	1.9	0.9	.010	.25	.011	.28	.137	3.48	18.5	61	30.5	100			
				500 <sup>††</sup>	152.4	10.0	4.5													
				1000 <sup>▲</sup>	304.8	19.0	8.6													

MIL-Spec MIL-W-16878/4 (Type E).

**24 AWG** Stranded (19x36) Silver-plated Copper Conductors • Cabled and Color-coded • Silver-plated Copper Braid Shield (85% Coverage)

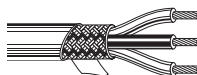
**Extruded TFE Teflon Insulation • White TFE Teflon Tape-wrapped Jacket**

600V RMS -65°C to 200°C VW-1 	<b>83304E</b>	—	1	White	500 <sup>††</sup>	152.4	4.5	2.0	.010	.25	.010	.25	.085	2.16	—	—	46	151		
					1000 <sup>▲</sup>	304.8	8.0	3.6												
	<b>83318E</b>	—	2	White, Black	100 <sup>†</sup>	30.5	1.6	0.7	.010	.25	.011	.28	.131	3.33	26.5	87	42.4	139		
					500 <sup>††</sup>	152.4	7.5	3.4												
1000 <sup>▲</sup>					304.8	16.0	7.3													
<b>83333E</b>	—	3	White, Black, Red	100 <sup>†</sup>	30.5	1.9	0.9	.010	.25	.011	.28	.137	3.48	21.9	72	36.8	121			
				500 <sup>††</sup>	304.8	10.0	4.5													
				1000 <sup>▲</sup>	304.8	19.0	8.6													
<b>83348E</b>	—	4	White, Black, Red, Green	100 <sup>†</sup>	30.5	2.3	1.0	.010	.25	.011	.28	.149	3.79	21.9	72	36.8	121			
				500 <sup>††</sup>	152.4	12.0	5.4													
				1000 <sup>▲</sup>	304.8	23.0	10.4													

Complies with MIL-W-16878/4 (Type E) except stranding.

**22 AWG** Stranded (19x34) Silver-plated Copper Conductors • Cabled and Color-coded • Silver-plated Copper Braid Shield (85% Coverage)

**Extruded TFE Teflon Insulation • White TFE Teflon Tape-wrapped Jacket**

600V RMS -65°C to 200°C VW-1 	<b>83305E</b>	—	1	White	100 <sup>†</sup>	30.5	1.1	0.5	.010	.25	.010	.25	.091	2.31	—	—	57.9	190			
					500 <sup>††</sup>	152.4	5.0	2.3													
					1000 <sup>▲</sup>	304.8	9.0	4.1													
	<b>83319E</b>	—	2	White, Black	100 <sup>†</sup>	30.5	1.9	0.9	.010	.25	.011	.28	.143	3.63	29.9	98	49.2	161			
500 <sup>††</sup>					152.4	10.0	4.5														
1000 <sup>▲</sup>					304.8	19.0	8.6														
<b>83334E</b>	—	3	White, Black, Red	100 <sup>†</sup>	30.5	2.7	1.2	.010	.25	.011	.28	.150	3.81	27.4	90	45.7	150				
				500 <sup>††</sup>	152.4	12.5	5.7														
				1000 <sup>▲</sup>	304.8	24.0	10.9														
<b>83349E</b>	—	4	White, Black, Red, Green	100 <sup>†</sup>	30.5	3.1	1.4	.010	.25	.011	.28	.163	4.14	27.4	90	45.7	150				
				500 <sup>††</sup>	152.4	14.5	6.6														
				1000 <sup>▲</sup>	304.8	28.0	12.7														

Complies with MIL-W-16878/4 (Type E) except stranding.

\*Capacitance between conductors.

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

<sup>†</sup> 100 ft. put-up one piece, exact length.

<sup>††</sup> 500 ft. put-up exact, but may contain up to 3 pieces. Minimum length of any one piece is 25 ft.

<sup>▲</sup> Spools may contain more than one piece. Length may vary ±10% from length shown.

Teflon is a DuPont trademark.

**BELDEN**

For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

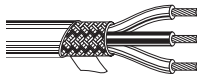
Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

**High-Temperature****Overall Braid Shield — Control and Instrumentation Cables****MIL-W-16878/4 (Type E) — Individual Conductors**

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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

**20 AWG** Stranded (19x32) Silver-plated Copper Conductors • Cabled and Color-coded • Silver-plated Copper Braid Shield (85% Coverage)

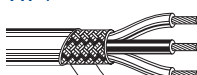
**Extruded TFE Teflon® Insulation • White TFE Teflon Tape-wrapped Jacket**

600V RMS -65°C to 200°C VW-1 	<b>83306E</b>	—	1	White	100 <sup>†</sup> 1000 <sup>▲</sup>	30.5 304.8	1.4 14.0	0.6 6.4	.010	.25	.010	.25	.099	2.52	—	—	69	226
	<b>83320E</b>	—	2	White, Black	100 <sup>†</sup> 500 <sup>††</sup> 1000 <sup>▲</sup>	30.5 152.4 304.8	2.6 12.0 23.0	1.2 5.4 10.4	.010	.25	.011	.28	.159	4.04	31.7	104	51	167
	<b>83335E</b>	—	3	White, Black, Red	100 <sup>†</sup> 500 <sup>††</sup> 1000 <sup>▲</sup>	30.5 152.4 304.8	3.3 15.5 30.0	1.5 7.0 13.6	.010	.25	.011	.28	.168	4.27	31.7	104	51	167
	<b>83350E</b>	—	4	White, Black, Red, Green	100 <sup>†</sup> 500 <sup>††</sup> 1000 <sup>▲</sup>	30.5 152.4 304.8	4.0 19.0 37.0	1.8 8.6 16.8	.010	.25	.011	.28	.183	4.65	31.7	104	51	167

Complies with MIL-W-16878/4 (Type E) except stranding.

**18 AWG** Stranded (19x30) Silver-plated Copper Conductors • Cabled and Color-coded • Silver-plated Copper Braid Shield (85% Coverage)

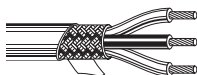
**Extruded TFE Teflon Insulation • White TFE Teflon Tape-wrapped Jacket**

600V RMS -65°C to 200°C VW-1 	<b>83307E</b>	—	1	White	1000 <sup>▲</sup>	304.8	17.0	7.7	.011	.28	.010	.25	.109	2.77	—	—	71.5	235
	<b>83321E</b>	—	2	White, Black	100 <sup>†</sup> 500 <sup>††</sup> 1000 <sup>▲</sup>	30.5 152.4 304.8	3.2 15.0 29.0	1.5 6.8 13.2	.011	.28	.011	.28	.179	4.55	31	102	52.8	173
	<b>83336E</b>	—	3	White, Black, Red	100 <sup>†</sup> 500 <sup>††</sup> 1000 <sup>▲</sup>	30.5 152.4 304.8	4.2 20.0 39.0	1.9 9.1 17.7	.011	.28	.011	.28	.189	4.80	31	102	52.8	173
	<b>83351E</b>	—	4	White, Black, Red, Green	100 <sup>†</sup> 500 <sup>††</sup> 1000 <sup>▲</sup>	30.5 152.4 304.8	5.2 25.0 51.0	2.4 11.3 23.1	.011	.28	.011	.28	.207	5.26	31	102	52.8	173

Complies with MIL-W-16878/4 (Type E) except stranding.

**16 AWG** Stranded (19x29) Silver-plated Copper Conductors • Cabled and Color-coded • Silver-plated Copper Braid Shield (85% Coverage)

**Extruded TFE Teflon Insulation • White TFE Teflon Tape-wrapped Jacket**

600V RMS -65°C to 200°C VW-1 	<b>83308E</b>	—	1	White	500 <sup>††</sup> 1000 <sup>▲</sup>	152.4 304.8	9.5 20.0	4.3 9.1	.012	.31	.011	.28	.120	3.05	—	—	72.5	238
	<b>83322E</b>	—	2	White, Black	100 <sup>†</sup> 500 <sup>††</sup> 1000 <sup>▲</sup>	30.5 152.4 304.8	3.8 18.0 35.0	1.7 8.2 15.9	.012	.31	.011	.28	.197	5.00	36	118	60	197
	<b>83337E</b>	—	3	White, Black, Red	100 <sup>†</sup> 500 <sup>††</sup> 1000 <sup>▲</sup>	30.5 152.4 304.8	5.0 24.5 49.0	2.3 11.1 22.2	.012	.31	.011	.28	.209	5.31	30.7	101	53	174
	<b>83352E</b>	—	4	White, Black, Red, Green	100 <sup>†</sup> 500 <sup>††</sup> 1000 <sup>▲</sup>	30.5 152.4 304.8	6.2 30.5 61.0	2.8 13.8 27.7	.012	.31	.011	.28	.229	5.82	30.2	99	50.8	167

Complies with MIL-W-16878/4 (Type E) except stranding.

\* Capacitance between conductors.

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

<sup>†</sup> 100 ft. put-up one piece, exact length.

<sup>††</sup> 500 ft. put-up exact, but may contain up to 2 pieces. Minimum length of any one piece is 25 ft.

<sup>▲</sup> 1000 ft. put-up exact, but may contain up to 6 pieces. Minimum length of any one piece is 25 ft.

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