

Teflon® High-Temperature

UL AWM Style 1180
300V, 200°C
(Type EE) MIL-W-16878/5
Teflon — 1000V, 200°C

VW-1

Product Description

Stranded silver-coated copper conductor insulation with extruded TFE Teflon.



Part No.	AWG (stranding)	Insulation Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors (See Color Codes Chart on Page 3.29)
		Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	
300V, 200°C (UL) • 1000V, 200°C (MIL-Spec)										
UL AWM Style 1180 • (Type EE) MIL-W-16878/5 — Teflon										
83023*	24 (19x36)	.015	.38	.053	1.35	100 [†]	30.5	.4	.2	1-10
						500 [▲]	152.4	2.5	1.1	2, 4, 5, 9, 10
						1000 [▲]	304.8	4.0	1.8	1-10
83025	22 (7x30)	.015	.38	.060	1.52	100 [†]	30.5	.5	.2	1-7, 9, 10
						500 [▲]	152.4	3.0	1.4	2, 9, 10
						1000 [▲]	304.8	5.0	2.3	1-7, 9, 10
83026*	22 (19x34)	.015	.38	.059	1.50	100 [†]	30.5	.5	.2	1-10
						500 [▲]	152.4	3.0	1.4	2, 9, 10
						1000 [▲]	304.8	5.0	2.3	1-10
83027*	20 (19x32)	.015	.38	.068	1.73	100 ^{††}	30.5	.8	.4	1-10
						500 [▲]	152.4	4.0	1.8	2, 9, 10
						1000 [▲]	304.8	7.0	3.2	1-10
83028	20 (7x28)	.015	.38	.068	1.73	100 ^{††}	30.5	.8	.4	1-10
						500 [▲]	152.4	4.0	1.8	2, 9, 10
						1000 [▲]	304.8	7.0	3.2	1-10
83029*	18 (19x30)	.015	.38	.077	1.96	100 ^{††}	30.5	1.1	.5	1-10
						500 [▲]	152.4	5.5	2.5	2, 5, 6, 9, 10
						1000 [▲]	304.8	9.0	4.1	1-10
83030*	16 (19x29)	.015	.38	.088	2.24	100 ^{††}	30.5	1.3	.6	1-10
						500 [▲]	152.4	6.5	3.0	2, 9, 10
						1000 [▲]	304.8	12.0	5.4	1-10

*Complies with MIL-W-16878 except stranding.

[†]100 ft. put-ups are exact, but may contain 2 pieces max.

^{††}100 ft. put-ups are exact, one piece.

[▲]May contain more than one piece. Minimum length of any one piece is 25 ft.

Teflon is a DuPont trademark.

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Teflon®

High-Temperature

UL AWM Style 1213 — 105°C

(Type E) MIL-W-16878/4

Teflon — 600V, 200°C

VW-1

Product Description

Stranded silver-coated copper conductor insulation with extruded TFE Teflon.



Part No.	AWG (stranding)	Insulation Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors (See Color Codes Chart on Page 3.29)
		Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	

105°C (UL) • 600V, 200°C (MIL-Spec)

UL AWM Style 1213 • (Type E) MIL-W-16878/4 — Teflon										
83000	30 (7x38)	.010	.25	.032	.81	100 †	30.5	.1	.05	1-10
						1000 ▲	304.8	1.0	.50	1-10
83001*	28 (7x36)	.010	.25	.035	.89	100 †	30.5	.2	.10	1-10
						1000 ▲	304.8	2.0	.90	1-10
83002	26 (7x34)	.010	.25	.039	.99	100 †	30.5	.2	.10	1-10
						500 ▲	152.4	1.0	.50	9
						1000 ▲	304.8	3.0	1.40	1-10
83003*	24 (19x36)	.010	.25	.043	1.09	100 †	30.5	.3	.10	1-10
						500 ▲	152.4	1.5	.70	1-10
						1000 ▲	304.8	3.0	1.40	1-10
83004	24 (7x32)	.010	.25	.043	1.09	100 †	30.5	.3	.10	1-10
						500 ▲	152.4	1.5	.70	2, 10
						1000 ▲	304.8	3.0	1.40	1-10
83005	22 (7x30)	.010	.25	.049	1.24	100 †	30.5	.4	.20	1-10
						500 ▲	152.4	2.5	1.10	2, 9, 10
						1000 ▲	304.8	4.0	1.80	1-10
83006*	22 (19x34)	.010	.25	.048	1.22	100 †	30.5	.4	.20	1-10
						500 ▲	152.4	2.5	1.10	1-10
						1000 ▲	304.8	4.0	1.80	1-10
83007*	20 (19x32)	.010	.25	.056	1.42	100 ††	30.5	.5	.20	1-10
						500 ▲	152.4	3.5	1.60	2, 6, 9, 10
						1000 ▲	304.8	6.0	2.70	1-10
83008	20 (7x28)	.010	.25	.058	1.47	100 †	30.5	.5	.20	1-10
						500 ▲	152.4	3.5	1.60	1-10
						1000 ▲	304.8	6.0	2.70	1-10

*Complies with MIL-W-16878 except stranding.

†100 ft. put-ups are exact, but may contain 2 pieces max. Minimum length of any one piece is 25 ft.

††100 ft. put-ups are exact, one piece.

▲May contain more than one piece. Length may vary ±10% from length shown.

Teflon is a DuPont trademark.

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Teflon® High-Temperature

UL AWM Style 1371 — 105°C

(Type E) MIL-W-16878/4

Teflon — 600V, 200°C

VW-1

Product Description

Stranded silver-coated copper conductor insulation with extruded TFE Teflon.



UL AWM Style 1371 — 105°C

(Type ET) MIL-W-16878/6

Teflon — 250V, 200°C

VW-1

Product Description

Stranded silver-coated copper conductor insulation with extruded TFE Teflon.



Part No.	AWG (stranding)	Insulation Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors (See Color Codes Chart on Page 3.29)
		Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	

105°C (UL) • 600V, 200°C (MIL-Spec)

UL AWM Style 1371 • (Type E) MIL-W-16878/4 — Teflon										
83009*	18 (19x30)	.011	.28	.068	1.73	100 [†]	30.5	1.0	.5	1-10
						500 [▲]	152.4	4.5	2.0	1-10
						1000 [▲]	304.8	8.0	3.6	1-10
83010*	16 (19x29)	.012	.30	.076	1.93	100 [†]	30.5	1.2	.5	1-10
						500 [▲]	152.4	6.0	2.7	1-10
						1000 [▲]	304.8	11.0	5.0	1-10

*Complies with MIL-W-16878 except stranding.

[†]100 ft. put-ups are exact, one piece.[▲]May contain more than one piece. Length may vary ±10% from length shown.

105°C (UL) • 250V, 200°C (MIL-Spec)

UL AWM Style 1371 • (Type ET) MIL-W-16878/6 — Teflon										
83041	32 (7x40)	.006	.15	.022	.56	100 ^{††}	30.5	.1	.05	6, 7, 10
						1000 [▲]	304.8	1.0	.50	6, 7, 10
83043	30 (7x38)	.006	.15	.024	.61	100 ^{††}	30.5	.1	.05	2, 5, 7-10
						1000 [▲]	304.8	1.0	.50	2, 5, 7, 9, 10
83045	28 (7x36)	.006	.15	.027	.69	100 ^{††}	30.5	.1	.051, 2, 5, 6, 9, 10	
						1000 [▲]	304.8	1.0	.501, 2, 5, 6, 9, 10	
83046	26 (7x34)	.006	.15	.031	.79	100 ^{††}	30.5	.2	.10	1-4, 6-9
						1000 [▲]	304.8	2.0	.90	1-4, 6-10
83047	24 (7x32)	.006	.15	.036	.91	100 ^{††}	30.5	.2	.10	6, 8-10
						1000 [▲]	304.8	2.0	.90	2, 6, 8-10
83048	24 (19x36)	.006	.15	.036	.91	100 ^{††}	30.5	.2	.101-3, 5, 7, 8, 10	
						1000 [▲]	304.8	2.0	.901-3, 5, 7, 8, 10	
83049	22 (7x30)	.006	.15	.042	1.07	100 ^{††}	30.5	.3	.10	1-10
						1000 [▲]	304.8	4.0	1.80	1-10
83050	22 (19x34)	.006	.15	.042	1.07	100 ^{††}	30.5	.3	.10	1-3, 5-9
						1000 [▲]	304.8	4.0	1.80	1-3, 5-9

^{††}100 ft. put-ups are exact, max. 2 pieces. Minimum length of any one piece is 25 ft.[▲]May contain more than one piece. Length may vary ±10% from length shown.

Teflon is a DuPont trademark.

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EPDM

High-Temperature

**UL AWM Style 3340 and 3374
600V, 125°C Flex/150°C No Flex
(CSA Type CL1254)****Product Description**

The insulation used for this High-Temperature lead wire is a chemically cross-linked ethylene-propylene diene elastomer. Never before could you find many of the characteristics that are found in Silicone and Hypalon® combined into one insulation. This 150°C EPDM wire offers more abrasion resistance than Hypalon... has the temperature rating of Silicone... at a price less than Silicone. EPDM has exceptional qualities that help you achieve new levels of economy and quality. 150°C EPDM wire is recommended for Class 130(B), 155(F) and also in some 180(H) systems. It's UL Recognized under Style 3374 as a 150°C—600V Appliance Wiring Material. The CSA Listing, as a coil lead, is 125°C, 600V. For additional technical information, see Technical Information pages at the end of this section.

Recommended maximum baking cycles:

24 hours @ 350°F (177°C) • 4 hours @ 375°F (190°C)

Stranded Conductor

Stranded tinned copper conductor

Separator Over Conductor

Separator

Part No.	AWG (stranding) [sq. mm] (stranding in mm)	Insulation Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors (See Color Codes Chart on Page 3.29)
		Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	
600V, 125°C Flex/150°C No Flex (UL) • 600V, 125°C (CSA)										
UL AWM Style 3340 and 3374 • CSA Type CL1254										
37118	18 (16x30) [.82 (16x.25)]	.045	1.14	.142	3.61	500 [†]	152.4	7.5	3.4	2, 4, 5, 9, 10, 13
						5000 ^{††}	1524.0	70.0	31.8	2, 9, 10, 13
37116	16 (26x30) [1.32 (26x.25)]	.045	1.14	.154	3.91	500 [†]	152.4	9.5	4.3	2, 4, 5, 9, 10, 13
						4000 ^{††}	1219.2	72.0	32.7	10
						5000 ^{††}	1524.0	90.0	40.9	10
37114	14 (41x30) [2.08 (41x.25)]	.045	1.14	.169	4.29	500 [†]	152.4	12.5	5.7	2, 10
						4000 ^{††}	1219.2	96.0	43.6	2, 10
						5000 ^{††}	1524.0	125.0	56.8	10
37112	12 (65x30) [3.29 (65x.25)]	.045	1.14	.190	4.83	500 [†]	152.4	16.5	7.5	2, 10
						3000 ^{††}	914.4	105.0	47.7	10
						5000 ^{††}	1524.0	175.0	79.5	10
37110	10 (65x28) [5.23 (65x.32)]	.060	1.52	.240	6.10	500 [†]	152.4	26.0	11.8	10
						2000 ^{††}	609.6	108.0	49.2	10
						5000 ^{††}	1524.0	275.0	125.0	10
37108*	8 (84x27) [8.60 (84x.36)]	.080	2.03	.327	8.31	250 ^{**}	76.2	22.5	10.2	10
						500 [†]	152.4	48.0	21.8	10
						2500	762.0	235.0	106.8	10
37106*	6 (84x25) [13.66 (84x.46)]	.080	2.03	.383	9.73	100 [*]	30.5	14.2	6.5	10
						250 ^{**}	76.2	33.0	15.0	10
						500 [†]	152.4	69.0	31.3	10
						2500	762.0	345.0	156.8	10
37104*	4 (105x24) [21.53 (105x.51)]	.080	2.03	.432	10.97	100 [*]	30.5	18.7	8.5	10
						250 ^{**}	76.2	50.0	22.7	10
						500 [†]	152.4	98.5	44.8	10
1000	304.8	196.0	89.1	10						
37103*	3 (133x24) [27.28 (133x.51)]	.080	2.03	.453	11.51	100 [*]	30.5	22.7	10.3	10
						250 ^{**}	76.2	61.8	28.1	10
37102*	2 (163x24) [33.43 (163x.51)]	.080	2.03	.494	12.55	100 [*]	30.5	31.1	14.1	10
						250 ^{**}	76.2	72.3	32.8	10
						1000	304.8	286.0	130.0	10
37101*	1 (210x24) [43.07 (210x.51)]	.095	2.41	.583	14.81	100 [*]	30.5	41.0	18.6	10
						250 ^{**}	76.2	95.0	43.2	10
						1000	304.8	376.0	170.9	10
37190*	1/0 (262x24) [53.73 (262x.51)]	.095	2.41	.633	16.08	50	15.2	24.7	11.2	10
						100 [*]	30.5	48.3	22.0	10
						250 ^{**}	76.2	115.5	52.5	10
500	152.4	223.5	101.6	10						
37100*	2/0 (504x26) [67.85 (504x.41)]	.095	2.41	.698	17.73	50	15.2	30.9	14.0	10
						100 [*]	30.5	58.8	26.7	10
						250 ^{**}	76.2	141.8	64.4	10
500	152.4	279.5	127.0	10						
37130*	3/0 (630x26) [84.81 (630x.41)]	.095	2.41	.758	19.25	50	15.2	38.5	17.5	10
						250 ^{**}	76.2	174.0	79.1	10
						500	152.4	346.0	157.3	10
37140*	4/0 (805x26) [108.37 (805x.41)]	.095	2.41	.849	21.57	50	15.2	44.6	20.2	10
						250 ^{**}	76.2	215.8	98.1	10
						500	152.4	449.0	203.7	10

*Separator over conductor.

[†]May contain more than one piece. Length may vary ±10% from length shown.

^{††}May contain more than one piece. Minimum length of any one piece is 200 ft.

*100 ft. put-ups are exact, one piece.

**200 ft. put-ups are exact, but may contain 2 pieces max. Minimum length of any one piece is 50 ft.

Hypalon is a DuPont trademark.

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EPDM

High-Temperature

UL AWM Style 3484

600V, 125°C

(CSA Type AWM)

Product Description

This series of EPDM (ethylene-propylene diene elastomer) will provide you with a lead wire which possesses excellent characteristics. The reduced wall thickness results in a UL and CSA Rating of 600V, 125°C. For additional technical information, see Technical Information pages at the end of this section.



Stranded tinned copper conductor

UL AWM Style 3499

7500V, 150°C

High-Voltage EPDM

Product Description

The insulation used for this High-Voltage wire is a chemically cross-linked ethylene-propylene diene elastomer with a separator for improved strippability. EPDM is naturally corona resistant and more heat resistant than many other rubber compounds and is able to take the longer bake cycles frequently needed for the big jobs. EPDM has superior weather resistance and low temperature pliability. EPDM is used in many high voltage applications. For additional technical information, see Technical Information pages at the end of this section.

Recommended maximum baking cycles:
24 hours @ 350°F (177°C) • 4 hours @ 375°F (190°C)



Separator
Stranded tinned copper conductor

Part No.	AWG (stranding) [sq. mm] (stranding in mm)	Insulation Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors (See Color Codes Chart on Page 3.29)
		Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	

600V, 125°C (UL & CSA)

UL AWM Style 3484 • CSA Type AWM

37222	22 (7x30) [.36 (7x.25)]	.030	.76	.093	2.36	*	*	*	*	Special Order*
37220	20 (10x30) [.51 (10x.25)]	.030	.76	.102	2.59	*	*	*	*	Special Order*
37218	18 (16x30) [.81 (16x.25)]	.030	.76	.109	2.77	*	*	*	*	Special Order*
37216	16 (26x30) [1.32 (26x.25)]	.030	.76	.123	3.12	*	*	*	*	Special Order*
37214	14 (41x30) [2.08 (41x.25)]	.030	.76	.138	3.51	*	*	*	*	Special Order*
37212	12 (65x30) [3.29 (65x.25)]	.030	.76	.158	4.01	*	*	*	*	Special Order*

*Contact Belden's Customer Service Department for order requirements. **1-800-BELDEN-1**.

7500V, 150°C (UL)

UL AWM Style 3499

37508	8 (84x27) [8.60 (84x.36)]	.125	3.18	.423	10.74	50 *	15.2	9.6	4.4	10
						500 ††	152.4	66.0	30.0	10
						1000 ††	304.8	130.0	59.1	10
37506	6 (84x25) [13.66 (84x.46)]	.125	3.18	.470	11.94	50 *	15.2	11.8	5.3	10
						500 ††	152.4	90.0	40.9	10
						1000 ††	304.8	176.0	80.0	10
37504	4 (105x24) [21.53 (105x.51)]	.125	3.18	.526	13.36	50 *	15.2	15.0	6.8	10
						500 ††	152.4	122.0	55.5	10
						1000 ††	304.8	240.0	109.1	10
37502	2 (163x24) [33.43 (163x.51)]	.125	3.18	.581	14.76	50 *	15.2	19.4	8.8	10
						500 ††	152.4	167.5	76.0	10
						1000 ††	304.8	333.0	151.4	10
37501	1 (210x24) [43.07 (210x.51)]	.125	3.18	.638	16.21	50 *	15.2	23.1	10.5	10
						500 ††	152.4	206.0	93.6	10
						37590	1/0 (262x24) [53.73 (262x.51)]	.125	3.18	.688
250 †	76.2	123.5	56.1	10						
500 ††	152.4	243.0	110.5	10						
37500	2/0 (504x26) [67.85 (504x.41)]	.125	3.18	.753	19.13	50 *	15.2	34.2	15.5	10
						250 †	76.2	150.5	68.4	10
						500 ††	152.4	302.5	137.5	10
37530	3/0 (630x26) [84.81 (630x.41)]	.125	3.18	.813	20.65	50 *	15.2	40.5	18.4	10
						250 †	76.2	184.0	83.6	10
						37540	4/0 (805x26) [108.37 (805x.41)]	.125	3.18	.909
250 †	76.2	228.8	104.0	10						
500 ††	152.4	472.0	214.5	10						

*50 ft. put-ups are one piece, exact.

†250 ft. put-ups are exact, but may contain 2 pieces max. Minimum length of any one piece is 50 ft.

††May contain more than one piece. Length may vary ±10% from length shown.

XL-Dur® (High-Temperature) and SIS (Switchboard) Wire

UL AWM Style 3436 and 3321 XL-Dur — 600V, 150°C (CSA Type CL1251 and AWM)

Product Description

This series of chemically cross-linked polyethylene lead wire is available for higher temperature applications. It is UL Recognized to 600V, 150°C. As with other cross-linked lead wire, it has excellent heat aging characteristics in combination with excellent electrical and physical properties.



Stranded tinned
copper conductor

UL Type SIS — 600V, 90°C (UL)

Product Description

For wiring switchboards, panelboards, distribution boards, including instrument and control wiring in these applications. The wire is covered by a separator for improved strippability.



Separator

Stranded tinned
copper conductor

Part No.	AWG (stranding) [sq. mm] (stranding in mm)	Insulation Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors (See Color Codes Chart on Page 3.29)
		Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	

600V, 150°C (UL & CSA)

UL AWM Style 3436 and 3321 • CSA Type CL1251 and AWM										
35420	20 (10x30) [.51 (10x.25)]	.030	.76	.102	2.59	500 [†]	152.4	4.5	2.0	9
35418	18 (16x30) [.81 (16x.25)]	.030	.76	.110	2.79	500 [†]	152.4	5.5	2.5	9, 10
						5000 [†]	1524.0	50.0	22.7	10
35416	16 (26x30) [1.32 (26x.25)]	.030	.76	.123	3.12	500 [†]	152.4	7.5	3.4	9, 10
						5000 [†]	1524.0	70.0	31.8	9, 10
35414	14 (41x30) [2.08 (41x.25)]	.030	.76	.138	3.51	500 [†]	152.4	10.0	4.5	9, 10
						5000 [†]	1524.0	95.0	43.2	9, 10
35412	12 (65x30) [3.29 (65x.25)]	.030	.76	.153	3.89	500 [†]	152.4	14.5	6.6	9, 10
						5000 [†]	1524.0	140.0	63.6	9, 10
35410	10 (65x28) [5.23 (65x.32)]	.030	.76	.177	4.50	500 [†]	152.4	20.0	9.1	9, 10
						5000 [†]	1524.0	210.0	95.5	9, 10

[†]Spools may contain more than one piece. Length may vary ±10% from length shown.

600V, 90°C (UL)

UL Type SIS • VW-1										
31014	14 (41x30) [2.08 (41x.25)]	.030	.76	.144	3.66	2500 [†]	762.2	50.0	22.7	8
						5000 ^{††}	1524.0	105.0	47.7	8
31012	12 (65x30) [3.29 (65x.25)]	.030	.76	.167	4.24	3000 ^{††}	914.4	93.0	42.3	8
31010	10 (65x28) [5.23 (65x.32)]	.030	.76	.184	4.67	2500 [†]	762.2	105.0	47.7	8
31008	8 (133x29) [8.60 (133x.29)]	.045	1.14	.268	6.75	2500 [†]	762.2	190.0	86.4	8
UL Type SIS										
31014N	14 (41x30) [2.08 (41x.25)]	.030	.76	.144	3.66	2500 [†]	762.2	52.5	23.9	8
31012N	12 (65x30) [3.29 (65x.25)]	.030	.76	.167	4.24	2500 [†]	762.2	77.5	35.2	8
31010N	10 (65x28) [5.23 (65x.32)]	.030	.76	.184	4.67	2500 [†]	762.2	107.5	48.9	8
31008N	8 (133x29) [8.60 (133x.29)]	.045	1.14	.268	6.75	2500 [†]	762.2	192.5	87.3	8

[†]Spools may contain more than one piece. Length may vary ±10% from length shown.

^{††}May contain more than one piece. Minimum length of any one piece is 200 ft.

Silicone Rubber Braidless

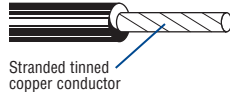
UL AWM Style 3212, 3213, 3214 600V, 150°C (CSA Type AWM)

Product Description

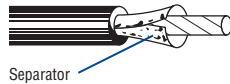
The 333 series of braidless Silicone 150°C lead wire features easy and clean stripping without the problems associated with glass braid wire. It has excellent physical and mechanical strength properties. Braidless Silicone lead wire is also recommended for consideration in applications requiring Class 155(F) or Class 180(H) materials. Recommended for high-temperature applications in motors, lighting fixtures, clothes dryers, stoves, therapeutic and electronic devices. It is recommended that varnish compatibility be checked before production. Some rigid varnishes may cause cracking when the wire is severely bent.

Recommended maximum baking cycles:
24 hours @ 410°F (210°C)

Stranded Conductor



Separator Over Conductor

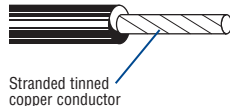


UL AWM Style 3135 600V, 200°C

Product Description

The 334 Series is for use only in totally enclosed systems.

Recommended maximum baking cycles:
24 hours @ 410°F (210°C)



Part No.	AWG (stranding) [sq. mm] (stranding in mm)	Insulation Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors (See Color Codes Chart on Page 3.29)
		Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	

600V, 150°C (UL & CSA)

UL AWM Style 3212 • CSA Type AWM

33322	22 (7x30) [.36 (7x.25)]	.045	1.14	.125	3.18	*	*	*	*	Special Order*
33320	20 (10x30) [.51 (10x.25)]	.045	1.14	.132	3.53	*	*	*	*	Special Order*
33318	18 (16x30) [.81 (16x.25)]	.045	1.14	.142	3.61	500 [†]	152.4	7.0	3.2	9, 10
33316	16 (26x30) [1.32 (26x.25)]	.045	1.14	.155	3.94	500 [†]	152.4	9.5	4.3	9, 10
33314	14 (41x30) [2.08 (41x.25)]	.045	1.14	.170	4.32	500 [†]	152.4	12.0	5.5	9, 10
33312	12 (65x30) [3.29 (65x.25)]	.045	1.14	.190	4.83	500 [†]	152.4	16.5	7.5	9, 10
33310[†]	10 (65x28) [5.23 (65x.32)]	.045	1.14	.209	5.31	500 [†]	152.4	22.5	10.3	10

UL AWM Style 3213 • CSA Type AWM

33308[†]	8 (84x27) [8.60 (84x.36)]	.060	1.52	.283	7.19	500	152.4	38.5	17.6	10
33306[†]	6 (84x25) [13.66 (84x.46)]	.060	1.52	.334	8.48	500 [†]	152.4	61.5	28.0	10
33304[†]	4 (105x24) [21.53 (105x.51)]	.060	1.52	.390	9.91	250 [*]	76.2	48.8	22.2	10
33302[†]	2 (163x24) [33.43 (163x.51)]	.060	1.52	.457	11.61	250 [*]	76.2	67.0	30.4	10

UL AWM Style 3214 • CSA Type AWM

33390[†]	1/0 (262x24) [53.73 (262x.51)]	.080	2.03	.594	15.09	250 [*]	76.2	108.3	49.2	10
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*Contact Belden's Customer Service Department for order requirements. **1-800-BELDEN-1**.

[†]Separator over conductor.

*250 ft. put-ups are exact, but may contain 2 pieces max. Minimum length of any one piece is 50 ft.

[†]May contain more than one piece. Length may vary ±10% from length shown.

600V, 200°C (UL)

UL AWM Style 3135

33418	18 (7x26) [.94 (7x.41)]	.030	.76	.111	2.82	*	*	*	*	Special Order*
33416	16 (7x24) [1.44 (7x.51)]	.030	.76	.123	3.12	*	*	*	*	Special Order*
33414	14 (7x22) [2.27 (7x.64)]	.030	.76	.139	3.53	*	*	*	*	Special Order*

*Contact Belden's Customer Service Department for order requirements. **1-800-BELDEN-1**.

Silicone Rubber Glass Braid

**UL AWM Style 3071, 3074,
3075, 3125 and 3126**
600V, 200°C
(CSA Type SEW-2)

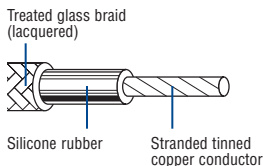
VW-1

Product Description

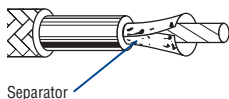
UL recognizes finer strands on the 150°C rated wire. The Silicone insulation strips clean and easy. The glass braid provides additional abrasion resistance and is treated to prevent fraying. Recommended for high-temperature applications in motors, lighting fixtures, clothes dryers, stoves, therapeutic and electronic devices. These wires can be used with Class 130(B), 155(F) or 180(H) insulation systems.

Recommended maximum baking cycles:
24 hours @ 410°F (210°C)

Stranded Conductor



Separator Over Conductor



Part No.	AWG (stranding) [sq. mm] (stranding in mm)	Insulation Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors (See Color Codes Chart on Page 3.29)
		Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	

600V, 200°C (UL & CSA)

UL AWM Style 3071 • CSA Type SEW-2										
32418	18 (7x26) [.94 (7x.41)]	.030	.76	.133	3.38	500 [†]	152.4	6.5	3.4	9, 10
						6000 ^{††}	1829.3	78.0	35.5	9, 10
32416	16 (7x24) [1.44 (7x.51)]	.030	.76	.145	3.68	500 [†]	152.4	9.5	4.3	9, 10
						6000 ^{††}	1829.3	108.0	49.1	10
32414	14 (7x22) [2.27 (7x.64)]	.030	.76	.167	4.24	500 [†]	152.4	12.0	5.5	9, 10
						4000 ^{††}	1219.2	100.0	45.5	9, 10

UL AWM Style 3074 • CSA Type SEW-2										
32412	12 (19x24.5) [3.30 (19x.47)]	.030	.76	.190	4.83	500 [†]	152.4	17.5	8.0	9, 10

UL AWM Style 3075 • CSA Type SEW-2										
32410	10 (19x22.5) [5.27 (19x.59)]	.045	1.14	.238	6.05	500 [†]	152.4	26.5	12.1	9, 10

UL AWM Style 3125 • CSA Type SEW-2										
30808*	8 (54x25) [8.78 (54x.46)]	.060	1.52	.313	7.95	100 [▲]	30.5	9.8	4.5	9, 10
						500 [†]	152.4	48.0	21.8	9, 10
						3000 [†]	914.4	285.0	129.5	9, 10
30806* [†]	6 (84x25) [13.66 (84x.46)]	.060	1.52	.368	9.35	100 [▲]	30.5	14.2	6.5	9, 10
						500 [†]	152.4	69.5	31.5	9, 10
						2000 [†]	609.6	284.0	129.1	9, 10
30804*	4 (105x24) [21.53 (105x.51)]	.060	1.52	.424	10.77	250 [•]	76.2	50.5	22.9	9, 10
30802*	2 (163x24) [33.43 (163x.51)]	.060	1.52	.496	12.60	250 [•]	76.2	72.8	33.0	9, 10

UL AWM Style 3126 • CSA Type SEW-2										
30801*	1 (210x24) [43.07 (210x.51)]	.080	2.03	.622	15.80	100 [▲]	30.5	43.2	19.6	9, 10
						250 [•]	76.2	100.5	45.7	9, 10
30890*	1/0 (262x24) [53.73 (262x.51)]	.080	2.03	.670	17.02	100 [▲]	30.5	51.5	23.4	9, 10
						250 [•]	76.2	123.5	56.1	9, 10
30800*	2/0 (504x26) [67.85 (504x.41)]	.080	2.03	.727	18.47	50 [▲]	15.2	31.1	14.1	9
						100 [▲]	30.5	60.5	27.5	9
						250 [•]	76.2	146.0	66.4	9
30830*	3/0 (630x26) [84.81 (630x.41)]	.080	2.03	.795	20.19	250 [•]	76.2	181.3	82.7	9
30840*	4/0 (266x21) [109.51 (266x.72)]	.080	2.03	.779	19.79	50 [▲]	15.2	47.9	21.8	9
						250 [•]	76.2	221.0	100.8	9

*Separator over conductor.

[†]May contain more than one piece. Length may vary ±10% from length shown.

^{††}May contain more than one piece. Minimum length of any one piece is 200 ft.

[▲]50 ft. and 100 ft. put-ups are one piece, exact.

[•]250 ft. put-ups are exact, but may contain 2 pieces max. Minimum length of any one piece is 50 ft.

Silicone Rubber

Glass Braid and Mercury Switch Wire

Glass Braid

UL AWM Style 3069, 3070, 3101
600V, 150°C

(CSA Type SEWF-2)

VW-1

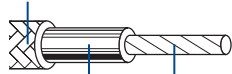
Product Description

UL recognizes finer strands on the 150°C rated wire. The Silicone insulation strips clean and easy. The glass braid provides additional abrasion resistance and is treated to prevent fraying. Recommended for high-temperature applications in motors, lighting fixtures, clothes dryers, stoves, therapeutic and electronic devices. These wires can be used with Class 130(B), 155(F) or 180(H) insulation systems.

Recommended maximum baking cycles:

24 hours @ 410°F (210°C)

Treated glass braid
(lacquered)



Silicone rubber

Stranded tinned
copper conductor

Mercury Switch

UL AWM Style 3123
600V, 150°C

Product Description

Suitable for mercury switches when protected against mechanical abuse. This wire has a tough, flexible Silicone insulation that remains flexible over a wide temperature range: +150°C to -55°C.



Stranded tinned
copper conductor

Part No.	AWG (stranding) [sq. mm] (stranding in mm)	Insulation Thickness		Nominal OD		Standard Lengths		Standard Unit Weight		Stock Colors (See Color Codes Chart on Page 3.29)
		Inch	mm	Inch	mm	Ft.	m	Lbs.	kg	

600V, 150°C (UL & CSA)

UL AWM Style 3069 • CSA Type SEWF-2

30820	20 (10x30) [.51 (10x.25)]	.030	.76	.122	3.10	500 [†]	152.4	5.0	2.3	9, 10
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UL AWM Style 3070 • CSA Type SEWF-2

30818	18 (16x30) [.81 (16x.25)]	.030	.76	.132	3.35	100* 500 [†]	30.5 152.4	2.0 6.5	.9 2.9	9, 10 9, 10
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30816	16 (26x30) [1.32 (26x.25)]	.030	.76	.145	3.68	500 [†]	152.4	9.0	4.1	9, 10
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30814	14 (41x30) [2.08 (41x.25)]	.030	.76	.164	4.17	500 [†]	152.4	12.0	5.5	9, 10
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30812	12 (65x30) [3.29 (65x.25)]	.030	.76	.186	4.72	500 [†]	152.4	17.0	7.7	9, 10
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UL AWM Style 3101 • CSA Type SEWF-2

30810	10 (65x28) [5.23 (65x.32)]	.045	1.14	.239	6.07	100* 500 [†]	30.5 152.4	5.8 25.0	2.6 11.4	9, 10 9, 10
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*100 ft. put-ups are one piece, exact.

[†]May contain more than one piece. Length may vary ±10% from length shown.

600V, 150°C (UL)

UL AWM Style 3123

34020	20 (105x40) [.52 (105x.08)]	.030	.76	.110	2.79	2000 ^{††}	609.6	16.0	7.3	8
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34017	17 (210x40) [1.03 (210x.08)]	.030	.76	.118	3.00	2000 ^{††}	609.6	24.0	10.9	8
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^{††}May contain more than one piece. Minimum length of any one piece is 200 ft.

Magnet Wire

Class 200

One Pound Spool

Product Description

Belden® high-temperature Class 200 Magnet Wire is dual coated. Its base coat is a cross-linked, modified polyester. Its top coat is an amide-imide polymer. Rated for 200°C usage, Belden Class 200 Magnet Wire has exceptional ability to resist solvents and abuse in difficult windings.



Single Beldsol Solderable

Half Pound Spool

Product Description

Beldsol Magnet Wire is a dual insulated Magnet Wire that combines the excellent dielectric characteristics of polyurethane and the known toughness and solvent resistance of a nylon overcoat. This wire is rated by IEEE tests for 270°F usage and will solder without insulation removal at 750°F.



Part No.	AWG	Approximate Length		Standard Unit Weight		Turns per Linear Inch	Turns per Square Inch
		Ft.	m	Lbs.	kg		

Class 200

J-W-1177/14 • MW 35-C (Heavy) or MW 74-C (Heavy)

8073	14	80	24.4	1.1	.5	14.9	222
8074	16	126	38.4	1.1	.5	18.6	346
8075	18	199	60.7	1.1	.5	23.2	538
8076	20	315	96.0	1.1	.5	28.9	835
8077	22	501	152.7	1.1	.5	36.0	1296
8078	24	793	241.7	1.1	.5	44.7	1998
8079	26	1260	384.1	1.1	.5	55.7	3102
8080	28	1990	606.6	1.1	.5	69.4	4816
8081	30	3140	957.1	1.1	.5	86.2	7430
8083	34	7860	2395.8	1.1	.5	133.1	17716
8085*	38	19300	5882.7	1.1	.5	206.0	42436

*8085 is a single coat of modified polyester insulation and made to NEMA MW 74-C (Heavy).

Single Beldsol Solderable

J-W-1177/9 • MW 28-C (Single)

8049	18	100	30.5	.5	.2	23.9	571
8050	20	160	48.8	.5	.2	29.9	894
8051	22	254	77.4	.5	.2	37.5	1406
8052	24	404	123.1	.5	.2	46.9	2200
8053	26	645	196.6	.5	.2	59.0	3481
8054	28	1020	310.9	.5	.2	73.8	5446
8055	30	1615	492.3	.5	.2	91.7	8409
8056	32	2515	766.6	.5	.2	114.0	12996
8057	34	4060	1237.5	.5	.2	144.0	20736
8058	36	6400	1950.7	.5	.2	180.0	32400

High-Temperature

Unshielded

Control and Instrumentation Cables

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	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm

20 AWG Stranded (7x28) Tinned Copper Conductors • Conductors Cabled**Tefzel® Insulation • Clear Tefzel Jacket**

300V RMS 150°C VW-1	85220	—	2	Black, Red	100 1000 [†]	30.5 304.8	3.8 23.0	1.7 10.4	.015	.38	.020	.51	.185	4.70
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**16 AWG** Stranded (19x29) Tinned Copper Conductors • Conductors Cabled**Tefzel Insulation • Clear Tefzel Jacket**

300V RMS 150°C VW-1	85221	—	2	Black, Red	500 [†] 1000 [†]	152.4 304.8	15.0 34.0	6.8 15.4	.015	.38	.019	.48	.211	5.36
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85102	—	2	See Chart 2 (Tech Info Section)	500 [†] 1000 [†]	152.4 304.8	14.0 32.0	6.4 14.5	.015	.38	.019	.48	.211	5.36
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85103	—	3	See Chart 2 (Tech Info Section)	500 [†] 1000 [†]	152.4 304.8	20.0 43.0	9.1 19.5	.015	.38	.019	.48	.223	5.66
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85105	—	5	See Chart 2 (Tech Info Section)	500 [†] 1000 [†]	152.4 304.8	35.0 68.0	15.9 30.9	.015	.38	.019	.48	.268	6.81
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85107	—	7	See Chart 2 (Tech Info Section)	100 1000 [†]	30.5 304.8	11.5 105.0	5.2 47.7	.015	.38	.024	.61	.303	7.70
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85109	—	9	See Chart 2 (Tech Info Section)	500 [†] 1000 [†]	152.4 304.8	59.0 119.0	26.8 54.0	.015	.38	.024	.61	.354	8.99
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[†] Spools are one piece, but length may vary ±10% from length shown.

Tefzel insulated and jacketed cables are particularly well suited for harsh environments due to outstanding mechanical toughness of the material, as well as its high-temperature and radiation resistant characteristics.

Tefzel cables are used extensively in chemical plants, nuclear plants, and fossil fuel power plants. Typical applications are data recording, communication, telemetry, and monitoring pressure or material flow.

Tefzel 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 Beldfoil® Shield Control and Instrumentation Cables

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

22 AWG Stranded (7x30) TC Conductors • Conductors Cabled • Special Beldfoil Shield (100% Coverage) • 22 AWG (7x30) Stranded TC Drain Wire

FEP Insulation • Red Silicone Rubber Jacket • Noise Reducing Tape

Jacket working voltage 2000V DC, shield to ground VW-1	83394	AWM 4516	2	Black, White	100	30.5	3.6	1.6	.015	.38	.030	.76	.199	5.05	22	72	40	131
					U-500 [†] 500 [†]	U-152.4 152.4	14.5 13.0	6.6 5.9										



70°C (min.) to 150°C (max.) operating temperature.

Jacket working voltage 2000V DC, shield to ground VW-1	83395	AWM 4516	3	Black, Red, White	100	30.5	3.9	1.8	.015	.38	.031	.79	.208	5.28	22	72	40	131
					U-500 [†]	U-152.4	14.0	6.4										



70°C (min.) to 150°C (max.) operating temperature.

	83396	AWM 4516	4	Black, White, Red, Green	100	30.5	3.9	1.8	.015	.38	.030	.76	.217	5.51	22	72	40	131
					U-500 [†]	U-152.4	16.0	7.3										

20 AWG Stranded (7x28) TC Conductors • Twisted Pair • Special Beldfoil Shield (100% Coverage) • 20 AWG (7x28) Stranded TC Drain Wire

FEP Insulation • Yellow Silicone Rubber Jacket • Noise Reducing Tape

Jacket working voltage 2000V DC, shield to ground VW-1	83393	AWM 4516	2	Black, Red	100 ^{††}	30.5	4.2	1.9	.020	.51	.030	.76	.242	6.15	22	72	40	131
					U-500 [†]	U-152.4	18.5	8.4										



70°C (min.) to 150°C (max.) operating temperature.

20 AWG Stranded (7x28) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • Drain Wire

Tefzel® Insulation • Clear Tefzel Jacket

300V RMS 150°C VW-1	85230	—	2	Black, Red	500 [†]	152.4	12.5	5.7	.015	.38	.020	.51	.182	4.62	31	102	59	194
					1000 [†]	304.8	29.0	13.2										



300V RMS 150°C VW-1	85240	—	3	Black, Red, Green	100	30.5	4.6	2.1	.015	.38	.020	.51	.193	4.90	27	87	48	157
					1000 [†]	304.8	30.0	13.6										



16 AWG Stranded (19x29) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • Drain Wire

Tefzel Insulation • Clear Tefzel Jacket

300V RMS 150°C VW-1	85231	—	2	Black, Red	100	30.5	5.6	2.5	.020	.51	.020	.51	.210	5.33	44	144	79	259			
					500 [†]	152.4	17.0	7.8													
					1000 [†]	304.8	38.0	17.3													



300V RMS 150°C VW-1	85241	—	3	Black, Red, Green	500 [†]	152.4	22.5	10.3	.020	.51	.020	.51	.223	5.66	34	112	61	201
					1000 [†]	304.8	49.0	22.3										



TC = Tinned Copper

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

[†]Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

^{††}100 ft. put-up one piece, exact length.

Tefzel and Kapton are DuPont trademarks.

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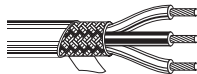
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High-Temperature**Overall Braid Shield — Control and Instrumentation Cables****MIL-W-16878/4 (Type E) — Individual Conductors**

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)

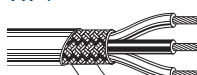
Extruded TFE Teflon® Insulation • White TFE Teflon Tape-wrapped Jacket

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

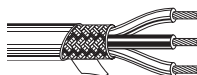
Extruded TFE Teflon Insulation • White TFE Teflon Tape-wrapped Jacket

600V RMS -65°C to 200°C VW-1 	83304E	—	1	White	500 ^{††}	152.4	4.5	2.0	.010	.25	.010	.25	.085	2.16	—	—	46	151	
					1000 [▲]	304.8	8.0	3.6											
	83318E	—	2	White, Black	100 [†]	30.5	1.6	0.7	.010	.25	.011	.28	.131	3.33	26.5	87	42.4	139	
					500 ^{††}	152.4	7.5	3.4											
					1000 [▲]	304.8	16.0	7.3											
	83333E	—	3	White, Black, Red	100 [†]	30.5	1.9	0.9	.010	.25	.011	.28	.137	3.48	21.9	72	36.8	121	
					500 ^{††}	304.8	10.0	4.5											
	83348E	—	4	White, Black, Red, Green	100 [†]	30.5	2.3	1.0	.010	.25	.011	.28	.149	3.79	21.9	72	36.8	121	
					500 ^{††}	152.4	12.0	5.4											
					1000 [▲]	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 	83305E	—	1	White	100 [†]	30.5	1.1	0.5	.010	.25	.010	.25	.091	2.31	—	—	57.9	190
					500 ^{††}	152.4	5.0	2.3										
	83319E	—	2	White, Black	100 [†]	30.5	1.9	0.9	.010	.25	.011	.28	.143	3.63	29.9	98	49.2	161
					500 ^{††}	152.4	10.0	4.5										
					1000 [▲]	304.8	19.0	8.6										
	83334E	—	3	White, Black, Red	100 [†]	30.5	2.7	1.2	.010	.25	.011	.28	.150	3.81	27.4	90	45.7	150
					500 ^{††}	152.4	12.5	5.7										
	83349E	—	4	White, Black, Red, Green	100 [†]	30.5	3.1	1.4	.010	.25	.011	.28	.163	4.14	27.4	90	45.7	150
					500 ^{††}	152.4	14.5	6.6										
					1000 [▲]	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.

[†] 100 ft. put-up one piece, exact length.

^{††} 500 ft. put-up exact, but may contain up to 3 pieces. Minimum length of any one piece is 25 ft.

[▲] Spools may contain more than one piece. Length may vary ±10% from length shown.

Teflon is a DuPont trademark.

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High-Temperature

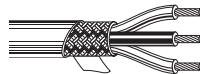
Overall Braid Shield — Control and Instrumentation Cables

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)

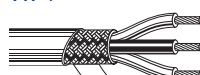
Extruded TFE Teflon® Insulation • White TFE Teflon Tape-wrapped Jacket

600V RMS -65°C to 200°C VW-1 	83306E	—	1	White	100 [†] 1000 [▲]	30.5 304.8	1.4 14.0	0.6 6.4	.010 .25	.010 .25	.099 2.52	—	—	69	226
	83320E	—	2	White, Black	100 [†] 500 ^{††} 1000 [▲]	30.5 304.8	2.6 12.0 23.0	1.2 5.4 10.4	.010 .25	.011 .28	.159 4.04	31.7 104	51	167	
	83335E	—	3	White, Black, Red	100 [†] 500 ^{††} 1000 [▲]	30.5 304.8	3.3 15.5 30.0	1.5 7.0 13.6	.010 .25	.011 .28	.168 4.27	31.7 104	51	167	
	83350E	—	4	White, Black, Red, Green	100 [†] 500 ^{††} 1000 [▲]	30.5 304.8	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)

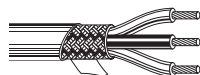
Extruded TFE Teflon Insulation • White TFE Teflon Tape-wrapped Jacket

600V RMS -65°C to 200°C VW-1 	83307E	—	1	White	1000 [▲]	304.8	17.0	7.7	.011 .28	.010 .25	.109 2.77	—	—	71.5	235
	83321E	—	2	White, Black	100 [†] 500 ^{††} 1000 [▲]	30.5 304.8	3.2 15.0 29.0	1.5 6.8 13.2	.011 .28	.011 .28	.179 4.55	31	102	52.8	173
	83336E	—	3	White, Black, Red	100 [†] 500 ^{††} 1000 [▲]	30.5 304.8	4.2 20.0 39.0	1.9 9.1 17.7	.011 .28	.011 .28	.189 4.80	31	102	52.8	173
	83351E	—	4	White, Black, Red, Green	100 [†] 500 ^{††} 1000 [▲]	30.5 304.8	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 	83308E	—	1	White	500 ^{††} 1000 [▲]	152.4 304.8	9.5 20.0	4.3 9.1	.012 .31	.011 .28	.120 3.05	—	—	72.5	238
	83322E	—	2	White, Black	100 [†] 500 ^{††} 1000 [▲]	30.5 304.8	3.8 18.0 35.0	1.7 8.2 15.9	.012 .31	.011 .28	.197 5.00	36	118	60	197
	83337E	—	3	White, Black, Red	100 [†] 500 ^{††} 1000 [▲]	30.5 304.8	5.0 24.5 49.0	2.3 11.1 22.2	.012 .31	.011 .28	.209 5.31	30.7 101	53	174	
	83352E	—	4	White, Black, Red, Green	100 [†] 500 ^{††} 1000 [▲]	30.5 304.8	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.

[†] 100 ft. put-up one piece, exact length.

^{††} 500 ft. put-up exact, but may contain up to 2 pieces. Minimum length of any one piece is 25 ft.

[▲] 1000 ft. put-up exact, but may contain up to 6 pieces. Minimum length of any one piece is 25 ft.

Teflon is a DuPont trademark.


Overall Beldfoil® Shield

High-Temperature Control and Instrumentation Cables and Computer Cables for EIA RS-232 Applications

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

20 AWG Stranded (7x28) TC Conductors • Pairs Cabled Together • Overall Beldfoil® Shield (100% Coverage) • Drain Wire

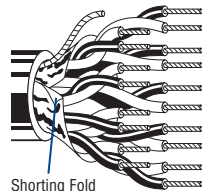
Tefzel® Insulation • Clear Tefzel Jacket

High-Temperature 300V RMS, 150°C VW-1	85164	4	See Chart 3 (Tech Info Section)	100	30.5	6.6	3.0	.015	.38	.025	.64	.344	8.74	23	75	40	131		
				500†	152.4	37.0	16.8												
				1000†	304.8	71.0	32.3												
	85168	8	See Chart 3 (Tech Info Section)	100	30.5	11.5	5.2	.015	.38	.025	.64	.439	11.15	23	75	40	131		
				500†	152.4	62.0	28.2												
				1000†	304.8	126.0	57.3												

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

24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire

Semi-rigid PVC Insulation • Chrome PVC Jacket

UL AWM Style 2464 (300V 80°C) CSA AWM I A	9501	NEC: 1 CMG CEC: CMG FT4	See Chart 3 (Tech Info Section)	100	30.5	2.1	1.0	24.0Ω/M'	18.0Ω/M'	.156	3.96	75	60%	40	131	74	243		
				U-500	U-152.4	7.5	3.4	78.7Ω/km	59.1Ω/km										
				500	152.4	7.0	3.2												
				U-1000	U-304.8	14.0	6.4												
				1000	304.8	14.0	6.4												
 Shorting Fold	9502††	NEC: 2 CMG CEC: CMG FT4 P-MSHA-SC-7K-182037	See Chart 3 (Tech Info Section)	100	30.5	3.7	1.7	24.0Ω/M'	17.0Ω/M'	.222	5.64	75	60%	30	98	50	164		
				U-500	U-152.4	15.0	6.8	78.7Ω/km	55.8Ω/km										
				500	152.4	14.5	6.6												
				U-1000	U-304.8	28.0	12.7												
				1000	304.8	30.0	13.6												
				10000	3048.0	290.0	131.8												
	9503	NEC: 3 CMG CEC: CMG FT4	See Chart 3 (Tech Info Section)	100	30.5	3.4	1.5	24.0Ω/M'	17.0Ω/M'	.232	5.89	75	60%	30	98	50	164		
				U-500	U-152.4	15.0	6.8	78.7Ω/km	55.8Ω/km										
				500	152.4	14.5	6.6												
				U-1000	U-304.8	28.0	12.7												
				1000	304.8	30.0	13.6												
	9504	NEC: 4 CMG CEC: CMG FT4	See Chart 3 (Tech Info Section)	100	30.5	4.0	1.8	24.0Ω/M'	17.0Ω/M'	.265	6.73	75	60%	30	98	50	164		
				U-500	U-152.4	18.0	8.2	78.7Ω/km	55.8Ω/km										
				500	152.4	16.5	7.5												
				U-1000	U-304.8	35.0	15.9												
				1000	304.8	36.0	16.3												
	9505	NEC: 5 CMG CEC: CMG FT4	See Chart 3 (Tech Info Section)	100	30.5	4.7	2.1	24.0Ω/M'	17.0Ω/M'	.289	7.34	75	60%	30	98	50	164		
				U-500	U-152.4	21.5	9.8	78.7Ω/km	55.8Ω/km										
				500	152.4	23.0	10.4												
				U-1000	U-304.8	41.0	18.6												
				1000	304.8	43.0	19.5												

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 ±10% from length shown.

†† Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration certification. Request quotations of RG/U cables not listed.

See Attenuation, Rise Time and Bit Rate data for this series on page 5.10.

Tefzel is a DuPont trademark.



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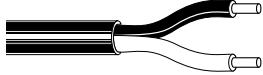
UL Instrumentation Cable

High-Temperature Thermocouple Extension Cables and Thermocouple Wire
Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	ANSI Type	No. of Pairs/Cond.	Color Code	Jacket Color	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD	
						Ft.	m	Lbs.	kg	Inch	mm	Inch	mm

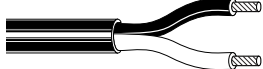
High-Temp Extension Cable • 20 AWG Solid Conductors • (See chart on page 18.53 for conductor specifications by ANSI Type)

Plenum • Unshielded • FEP Insulation • FEP Jacket

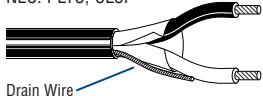
300V 200°C NEC: PLTC, CL3P 	83932	KX	2/c	Yellow, Red	Yellow	500 †	152.4	6.5	3.0	.010	.25	.076	1.93
						1000 †	304.8	12.0	5.4			x	x
	83934	TX	2/c	Blue, Red	Blue	1000 †	304.8	13.0	6.0	.010	.25	.076	1.93
												x	x

High-Temp Extension Cable • 20 AWG Stranded (7x28) Conductors • (See chart on page 18.53 for conductor specifications by ANSI Type)

Plenum • Unshielded • FEP Insulation • FEP Jacket


300V 200°C NEC: PLTC, CL3P 	83930	JX	2/c	White, Red	Black	500 †	152.4	7.5	3.4	.010	.25	.082	2.08
						1000 †	304.8	13.0	6.0			x	x
										.010	.25	.140	3.56

Plenum • Overall Beldfoil® Shield (100% Coverage) • FEP Insulation • FEP Jacket

300V 200°C NEC: PLTC, CL3P 	83955	EX	1 pr.	Purple, Red	Purple	500 †	152.4	9.0	4.1	.010	.25	.145	3.68
						1000 †	304.8	16.0	7.3			x	x
	83950	JX	1 pr.	White, Red	Black	500 †	152.4	9.5	4.3	.010	.25	.145	3.68
						1000 †	304.8	16.0	7.3			x	x
	83952	KX	1 pr.	Yellow, Red	Yellow	500 †	152.4	9.5	4.3	.010	.25	.145	3.68
						1000 †	304.8	16.0	7.3			x	x
	83954	TX	1 pr.	Blue, Red	Blue	500 †	152.4	9.0	4.1	.010	.25	.145	3.68
						1000 †	304.8	17.0	7.7			x	x

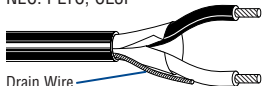
High-Temp Extension Cable • 16 AWG Pairs Solid Conductors • (See chart on page 18.53 for conductor specifications by ANSI Type)

Plenum • Overall Beldfoil Shield (100% Coverage) • FEP Insulation • FEP Jacket

300V 200°C NEC: PLTC, CL3P 	1114A	EX	1	Purple, Red	Purple	5000 †	1524.0	160.0	72.6	.010	.25	.172	4.37
						1000 †	304.8	16.0	7.3			x	x
	1115A	JX	1	White, Red	Black	5000 †	1524.0	155.0	70.4	.010	.25	.172	4.37
						1000 †	304.8	16.0	7.3			x	x
	1116A	KX	1	Yellow, Red	Yellow	5000 †	1524.0	160.0	72.6	.010	.25	.171	4.34
						1000 †	304.8	16.0	7.3			x	x
	1117A	TX	1	Blue, Red	Blue	5000 †	1524.0	160.0	72.6	.010	.25	.172	4.37
						1000 †	304.8	17.0	7.7			x	x


High-Temp Extension Cable • 16 AWG Pairs Stranded (7x24) Conductors • (See chart on page 18.53 for conductor specifications by ANSI Type)

Plenum • Overall Beldfoil Shield (100% Coverage) • FEP Insulation • FEP Jacket

300V 200°C NEC: PLTC, CL3P 	83951	JX	1	White, Red	Black	500 †	152.4	16.0	7.3	.010	.25	.189	4.80
						1000 †	304.8	35.0	15.9			x	x
	83953	KX	1	Yellow, Red	Yellow	500 †	152.4	16.0	7.3	.010	.25	.187	4.75
						1000 †	304.8	32.0	14.5			x	x

High-Temp Thermocouple Wire • 20 AWG Solid Conductors • (See chart on page 18.53 for conductor specifications by ANSI Type)

Plenum • Unshielded • FEP Insulation • FEP Jacket

300V 200°C NEC: PLTC, CL3P 	83915	E	2/c	Purple, Red	Brown	500 †	152.4	7.0	3.2	.010	.25	.076	1.93		
						1000 †	304.8	13.0	6.0			x	x		
	83900	J	2/c	White, Red	Brown	100	30.5	2.1	1.0	.010	.25	.076	1.93		
						500 †	152.4	7.0	3.2			x	x		
						1000 †	304.8	13.0	6.0			.128	3.25		
	83905	K	2/c	Yellow, Red	Brown	100	30.5	2.1	1.0	.010	.25	.076	1.93		
						500 †	152.4	7.0	3.2			x	x		
						1000 †	304.8	12.0	5.4			.128	3.25		
	83910	T	2/c	Blue, Red	Brown	100	30.5	2.1	1.0	.010	.25	.076	1.93		
						500 †	152.4	7.0	3.2			x	x		
						1000 †	304.8	12.0	5.4			.128	3.25		

FEP = Fluorinated Ethylene-propylene

†Final put-up length may vary ±10% from length shown.

Multiple pair cables have each pair numbered for ease of identification.

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