

High-Temperature Teflon® Wire

Teflon is a fluorinated thermoplastic with outstanding thermal, physical, and electrical properties. Teflon is generally restricted to applications requiring its special characteristics because its basic resin and processing costs are relatively high.

Belden's Teflon wire products are highly recommended for miniature cable applications because of their superior thermal and electrical properties. Teflon is especially suitable for internal wiring-soldering applications where insulation melt back is a specific problem. Belden wiring products insulated with Teflon are outstanding in their

resistance to oil, oxidation, heat, sunlight, and flame; and also in their ability to remain flexible at low temperatures. They have excellent resistance to ozone, water, alcohol, gasoline, acids, alkalis, aromatic hydrocarbons, and solvents.

Belden welcomes inquiries for the following type designations for MIL-W-16878/1, 2, 3, 4, 5, 6, 10, 11, 12, 13, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 34, and 35.

Description UL AWM Style	Trade No. UL NEC Type CSA Cert.	Standard Lengths		Std. Unit Lbs. ea.	AWG (stranding)	Insulation Thickness		Nominal O.D.		Color Code (See color code chart on page 33.)
		ft.	m			Inch	mm	Inch	mm	

UL Style 1180 300V, 200°C

(Type EE)—MIL-W-16878E/5 Teflon—1000V, 200°C

Product Description

Stranded silver-coated copper conductor insulated with extruded TFE Teflon. Passes VW-1 Vertical Wire Flame Test.

 UL 1180	83023	100♦ 500♦ 1000♦	30.5 152.4 304.8	.4 1.8 3.5	24 (19x36)	.015	.38	.054	1.37	1-10
	83025	100♦ 500♦ 1000♦	30.5 152.4 304.8	.5 2.4 4.5	22 (7x30)	.015	.38	.060	1.52	1-7, 9, 10
	83026	100♦ 500♦ 1000♦	30.5 152.4 304.8	.4 2.5 4.6	22 (19x34)	.015	.38	.060	1.52	1-10
	83027	100♦ 500♦ 1000♦	30.5 152.4 304.8	1.4 3.4 6.6	20 (19x32)	.015	.38	.068	1.73	1-10
	83028	100♦ 500♦ 1000♦	30.5 152.4 304.8	.9 3.3 6.4	20 (7x28)	.015	.38	.068	1.73	1-10
	83029	100♦ 500♦ 1000♦	30.5 152.4 304.8	1.1 4.7 9.2	18 (19x30)	.015	.38	.077	1.96	1-10
	83030	100♦ 500♦ 1000♦	30.5 152.4 304.8	1.2 6.0 11.8	16 (19x29)	.015	.38	.088	2.24	1-10

UL Style 1213 105°C

(Type E)—MIL-W-16878E/4 Teflon—600V, 200°C

Product Description

Stranded silver-coated copper conductor insulated with extruded TFE Teflon. Passes VW-1 Vertical Wire Flame Test.

 UL 1213	83000	100♦ 500♦ 1000♦	30.5 152.4 304.8	.1 .6 1.2	30 (7x38)	.010	.25	.032	.81	1-10 (100) 2-5, 8-10 (500) 1-10 (1000)
	83001	100♦ 500♦ 1000♦	30.5 152.4 304.8	.1 .7 1.5	28 (7x36)	.010	.25	.035	.89	1-10 (100) 1-6, 8-10 (500) 1-10 (1000)

♦ DuPont trademark.

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

Hook-Up Wire

High-Temperature Teflon® Wire

Description UL AWM Style	Trade No. UL NEC Type CSA Cert.	Standard Lengths		Std. Unit Lbs. ea.	AWG (stranding)	Insulation Thickness		Nominal O.D.		Stock Colors (See color code chart on page 33.)
		ft.	m			Inch	mm	Inch	mm	

UL Style 1213 105°C (cont'd.)

(Type E)—MIL-W-16878E/4 Teflon—600V, 200°C

Product Description

Stranded silver-coated copper conductor insulated with extruded TFE Teflon. Passes VW-1 Vertical Wire Flame Test.

 1213	83002	100 ♦ 500 ♦ 1000 ♦	30.5 152.4 304.8	.2 1.2 2.1	26 (7x34)	.010	.25	.037	.94	1-10
	83003	100 ♦ 500 ♦ 1000 ♦	30.5 152.4 304.8	.2 1.3 2.7	24 (19x36)	.010	.25	.044	1.12	1-10
	83004	100 ♦ 500 ♦ 1000 ♦	30.5 152.4 304.8	.3 1.3 2.7	24 (7x32)	.010	.25	.044	1.12	1-10
	83005	100 ♦ 500 ♦ 1000 ♦	30.5 152.4 304.8	.5 1.9 3.6	22 (7x30)	.010	.25	.050	1.27	1-10
	83006	100 ♦ 500 ♦ 1000 ♦	30.5 152.4 304.8	.5 2.1 3.7	22 (19x34)	.010	.25	.048	1.22	1-10
	83007	100 ♦ 500 ♦ 1000 ♦	30.5 152.4 304.8	.6 2.9 5.3	20 (19x32)	.010	.25	.056	1.42	1-10
	83008	100 ♦ 500 ♦ 1000 ♦	30.5 152.4 304.8	.6 2.8 5.1	20 (7x28)	.010	.25	.058	1.47	1-10

UL Style 1371 105°C

(Type E)—MIL-W-16878E/4 Teflon—600V, 200°C

Product Description

Stranded silver-coated copper conductor insulated with extruded TFE Teflon. Passes VW-1 Vertical Wire Flame Test.

 1371	83009	100 ♦ 500 ♦ 1000 ♦	30.5 152.4 304.8	1.0 4.1 8.0	18 (19x30)	.011	.28	.069	1.75	1-10
	83010	100 ♦ 500 ♦ 1000 ♦	30.5 152.4 304.8	1.3 5.4 10.5	16 (19x29)	.012	.30	.077	1.96	1-10

UL Style 1371 105°C

(Type ET)—MIL-W-16878E/6 Teflon—250V, 200°C

Product Description

Stranded silver-coated copper conductor insulated with extruded TFE Teflon. Passes VW-1 Vertical Wire Flame Test.

 1371	83041	100 ♦ 1000 ♦	30.5 304.8	.2 .8	32 (7x40)	.006	.15	.022	.56	6, 7, 10
	83043	100 ♦ 1000 ♦	30.5 304.8	.2 .9	30 (7x38)	.006	.15	.024	.61	2, 5, 7-10 (100) 2, 5, 7, 9, 10 (1000)

♦ DuPont trademark.

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

High-Temperature Teflon® Wire

Description UL AWM Style	Trade No. UL NEC Type CSA Cert.	Standard Lengths		Std. Unit Lbs. ea.	AWG (stranding)	Insulation Thickness		Nominal O.D.		Stock Colors (See color code chart on page 33.)
		ft.	m			Inch	mm	Inch	mm	

UL Style 1371 105°C (cont'd.)
(Type ET)—MIL-W-16878E/6 Teflon—250V, 200°C

Product Description

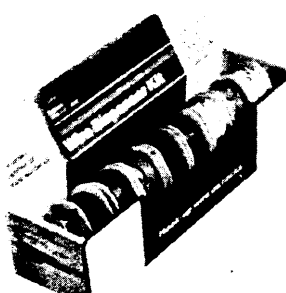
Stranded silver-coated copper conductor insulated with extruded TFE Teflon. Passes VW-1 Vertical Wire Flame Test.

 UL 1371	83045	100* 1000*	30.5 304.8	.2 1.2	28 (7x36)	.006	.15	.027	.69	1, 2, 5, 6, 9, 10
	83046	100* 1000*	30.5 304.8	.3 1.6	26 (7x34)	.006	.15	.031	.79	1-4, 6-9 (100) 1-4, 6-10 (1000)
	83047	100* 1000*	30.5 304.8	.3 2.2	24 (7x32)	.006	.15	.036	.91	6, 8-10 (100) 2, 6, 8-10 (1000)
	83048	100* 1000*	30.5 304.8	.3 2.2	24 (19x36)	.006	.15	.036	.91	1-3, 5, 7, 8, 10
	83049	100* 1000*	30.5 304.8	.4 3.1	22 (7x30)	.006	.15	.042	1.07	1-10
	83050	100* 1000*	30.5 304.8	.4 3.2	22 (19x34)	.006	.15	.042	1.07	1-3, 5-9

Kits Hook-Up Wire on Racks

R and D Labs . . . Engineers . . . Servicemen . . . Hobbyists, Specify Trade Number **8800** for Rack only
Stock Colors: 1. Brown 2. Red 3. Orange 4. Yellow 5. Green 6. Light Blue 7. Violet (purple)
8. Gray (slate) 9. White 10. Black. Passes VW-1 Vertical Wire Flame Test.

Description	No. of Spools	Trade No.	Spool Lengths		Std. Unit Lbs. ea.	Type of Wire	Colors in Kit
			ft.	m			

	8	8816 80°C	25	7.6	2.5	18 (16x30) Tinned PVC (8522-25)	1, 2, 3, 4, 5, 6, 9, 10
	8	8824 80°C	25	7.6	1.8	20 (10x30) Tinned PVC (8523-25)	1, 2, 3, 4, 5, 6, 9, 10
	5	8825 105°C	100	30.5	3.0	20 (7x28) Tinned PVC (8502-100)	2, 4, 5, 9, 10
	5	9531 80°C	100	30.5	2.8	22 (7x30) Tinned PVC (8524-100)	2, 5, 6, 9, 10

* DuPont trademark.

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

Standard Line

Description UL AWM Style	Trade No. UL NEC Type CSA Cert.	Standard Lengths		Std. Unit Lbs. ea.	AWG (stranding)	Insulation Thickness		Nominal O.D.		Stock Colors
		ft.	m			Inch	mm	Inch	mm	

MIL-W-22759/11-XX Teflon® 600V, 200°C

Product Description

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

M22759/11-26-9 QPL	83073	1000	304.8	2.4	26 (19x38)	.009	.23	.038	.97	White
M22759/11-24-9 QPL	83074	1000	304.8	3.0	24 (19x36)	.009	.23	.043	1.09	White
M22759/11-22-9 QPL	83075	1000	304.8	4.0	22 (19x34)	.009	.23	.049	1.24	White
M22759/11-20-9 QPL	83076	1000	304.8	5.9	20 (19x32)	.010	.25	.058	1.47	White
M22759/11-18-9 QPL	83077	1000	304.8	9.5	18 (19x30)	.010	.25	.068	1.73	White
M22759/11-16 QPL	83078	1000	304.8	11.4	16 (19x29)	.011	.28	.075	1.91	White
M22759/11-14 QPL	83079	1000	304.8	16.3	14 (19x27)	.011	.28	.090	2.29	White
M22759/11-12 QPL	83080	1000	304.8	23.9	12 (19x25)	.013	.33	.111	2.82	White

MIL-W-22759/16-XX Tefzel® 600V, 150°C

Product Description

Stranded tinned-coated copper conductor insulated with ETFE Tefzel.

M22759/16-24-9 QPL	83084	1000	304.8	3.0	24 (19x36)	.011	.28	.045	1.14	White
M22759/16-22-9 QPL	83085	1000	304.8	4.0	22 (19x34)	.011	.28	.052	1.32	White
M22759/16-20-9 QPL	83086	1000	304.8	5.6	20 (19x32)	.011	.28	.060	1.52	White
M22759/16-18-9 QPL	83087	1000	304.8	9.5	18 (19x30)	.012	.30	.071	1.80	White
M22759/16-14 QPL	83089	1000	304.8	15.9	14 (19x27)	.013	.33	.093	2.36	White
M22759/16-12 QPL	83090	1000	304.8	24.4	12 (37x28)	.014	.36	.114	2.90	White