

MIL-W-16878/6 (Type ET) wire—thin-wall extruded PTFE insulation



MIL-W-16878/6 (type ET) wires have extruded PTFE insulation (thin wall thickness) for high-temperature applications and light weight. PTFE insulation offers high reliability with excellent thermal stability and chemical resistance.

For medium-wall (type E) versions of these wires, see M16878/4 (page 23); for heavy-wall (type EE) versions, see M16878/5 (previous page).

Performance:

Voltage rating: 250V.

Temperature rating: Silver-plated conductor: -55 to 200° C;
Nickel-plated conductor: -55 to 260° C.

Construction Details

Insulation: Extruded PTFE, wall thickness .006 (.15 mm).

Conductor: Silver-plated copper.

Colors: Color coded to MIL-STD-104 (See page 22).

Options: Nickel-plated copper conductor; silver or nickel-plated high-strength copper alloy conductor; sodium naphthalene etched insulation for bondability. Also available to NEMA HP-3-ETX.

Ordering Information: Specify Thermax part number, M16878 number, and color.

To order with optional conductor materials:

For silver-plated high-strength copper conductor, change **MT** in Thermax part number to **MTTF**.

For nickel-plated copper conductor, change **MT** in Thermax part number to **MTN**.

For nickel-plated high-strength copper conductor, change **MT** in Thermax part number to **MTTFN**.

Dimensions, Resistance, and Weights—M16878/6

M16878 P/N**	AWG Size	Stranding	Conductor Diameter	Insulation Diameter		Weight	Maximum Resistance	Thermax P/N
				Minimum	Maximum			
M16878/6 BGE-*	20	19/32	.038 (.97)	.048 (1.22)	.052 (1.32)	4.60 (6.85)	9.19 (30.1)	20-MT-1932
M16878/6 BGB-*	20	7/28	.038 (.97)	.048 (1.22)	.052 (1.32)	4.24 (6.31)	10.0 (32.8)	20-MT-728
M16878/6 BFE-*	22	19/34	.030 (.76)	.040 (1.02)	.044 (1.12)	3.98 (4.43)	15.1 (49.5)	22-MT-1934
M16878/6 BFB-*	22	7/30	.030 (.76)	.040 (1.02)	.044 (1.12)	2.80 (4.17)	15.9 (52.2)	22-MT-730
M16878/6 BEE-*	24	19/36	.024 (.61)	.034 (.86)	.038 (.97)	2.02 (3.01)	24.3 (79.7)	24-MT-1936
M16878/6 BEB-*	24	7/32	.024 (.61)	.034 (.86)	.038 (.97)	1.90 (2.83)	25.2 (82.7)	24-MT-732
M16878/6 BDE-*	26	19/38	.019 (.48)	.029 (.74)	.033 (.84)	1.40 (2.08)	38.4 (126)	26-MT-1938
M16878/6 BDB-*	26	7/34	.019 (.48)	.029 (.74)	.033 (.38)	1.30 (1.93)	40.5 (133)	26-MT-734
M16878/6 BDA-*	26	SOLID	.016 (.41)	.026 (.66)	.030 (.76)	1.16 (1.73)	42.7 (140)	26-MT-126
M16878/6 REF	28	19/40	.015 (.38)	.025 (.64)	.029 (.74)	.980 (1.46)	63.1 (207)	28-MT-1940
M16878/6 BCB-*	28	7/36	.015 (.38)	.025 (.64)	.029 (.74)	.910 (1.35)	63.8 (209)	28-MT-736
M16878/6 BCA-*	28	SOLID	.013 (.33)	.023 (.58)	.027 (.69)	.800 (1.19)	68.0 (223)	28-MT-128
M16878/6 REF	30	19/42	.012 (.31)	.022 (.56)	.026 (.66)	.680 (1.01)	96.1 (315)	30-MT-1942
M16878/6 BBB-*	30	7/38	.012 (.31)	.022 (.56)	.026 (.66)	.660 (.982)	101 (331)	30-MT-738
M16878/6 BBA-*	30	SOLID	.010 (.25)	.020 (.51)	.024 (.61)	.590 (.878)	108 (354)	30-MT-130
M16878/6 REF	32	19/44	.010 (.25)	.020 (.51)	.024 (.61)	.520 (.774)	153 (502)	32-MT-1944
M16878/6 BAB-*	32	7/40	.009 (.23)	.020 (.51)	.024 (.61)	.480 (.714)	173 (567)	32-MT-740
M16878/6 REF	32	SOLID	.008 (.20)	.016 (.41)	.022 (.56)	.450 (.670)	169 (554)	32-MT-132
M16878/6 REF	34	7/42	.008 (.20)	.015 (.38)	.021 (.53)	.380 (.566)	258 (846)	34-MT-742
M16878/6 REF	34	SOLID	.006 (.15)	.014 (.36)	.020 (.51)	.340 (.506)	270 (886)	34-MT-134
M16878/6 REF	36	7/44	.006 (.15)	.014 (.36)	.020 (.51)	.300 (.446)	412 (1351)	36-MT-744
M16878/6 REF	36	SOLID	.005 (.13)	.013 (.33)	.019 (.48)	.270 (.402)	415 (1361)	36-MT-136
M16878/6 REF	38	7/46	.005 (.13)	.013 (.33)	.019 (.48)	.180 (.268)	541 (1774)	38-MT-746
M16878/6 REF	38	SOLID	.004 (.10)	.012 (.31)	.018 (.46)	.170 (.253)	648 (2125)	38-MT-138

Dimensions in inches (mm). Weights in pounds/1000 feet (Kg/1000 m). Resistance in Ω /1,000 feet (Ω /Km), @20° C.

* Add color coding per MIL-STD-104 (see page 22). **Complies with the latest issue of MIL-W-16878 having no surface marking, and NEMA HP-3. All values are nominal unless otherwise indicated.

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