

MaxForm hand-formable cable

MaxForm cable is a hand-formable alternative to semi-rigid cable. With its 100% shield coverage, it provides equivalent performance to MIL-C-17 semi-rigid, but can be formed by hand without the use of bending equipment. Cable assemblies can be made to approximate overall length and bent to fit when installing into equipment.

MaxForm cable can be used with connectors designed for MIL-C-17 semi-rigid cable, with no change in assembly procedures.

Performance:

Temperature rating: No jacket: 260° C;
FEP jacket: 200° C;
PVC jacket: 105° C.

Dimensions and Weights

MIL-C-17 Equivalent	Inner Conductor Diameter / Type	Dielectric Diameter	Outer Conductor Diameter	Jacket Material / Diameter	Weight	Min. Bend Radius	Thermax P/N
M17/133	.020 (.51) SPCW	.065 (1.65)	.086 (2.18)	None	11.4 (17.0)	.43 (11)	670-086/50Y
	.020 (.51) SPCW	.065 (1.65)	.086 (2.18)	FEP .105 (2.67)	14.1 (21.0)	.43 (11)	670-086/50YXE
	.020 (.51) SPCW	.065 (1.65)	.086 (2.18)	PVC .115 (2.92)	14.1 (21.0)	.43 (11)	670-086/50YXV
None	.011 (.28) SPCW	.065 (1.65)	.086 (2.18)	None	11.4 (17.0)	.43 (11)	670-086/75Y
	.011 (.28) SPCW	.065 (1.65)	.086 (2.18)	FEP .105 (2.67)	14.1 (21.0)	.43 (11)	670-086/75YXE
	.011 (.28) SPCW	.065 (1.65)	.086 (2.18)	PVC .115 (2.92)	14.1 (21.0)	.43 (11)	670-086/75YXV
M17/130	.037 (.94) SPCW	.119 (3.02)	.141 (3.58)	None	25.5 (38.0)	.63 (16)	670-141Y
	.037 (.94) SPCW	.119 (3.02)	.141 (3.58)	FEP .168 (4.26)	31.7 (47.2)	.63 (16)	670-141YXE
	.037 (.94) SPCW	.119 (3.02)	.141 (3.58)	PVC .179 (4.55)	31.7 (47.2)	.63 (16)	670-141YXV
M17/129	.064 (1.63) SPC	.201 (5.31)	.240 (6.10)	None	70.3 (104.6)	2.0 (51)	670-250Y
	.064 (1.63) SPC	.201 (5.31)	.240 (6.10)	FEP .280 (7.11)	85.8 (127.7)	2.0 (51)	670-250YXE
	.064 (1.63) SPC	.201 (5.31)	.240 (6.10)	PVC .290 (7.37)	85.8 (127.7)	2.0 (51)	670-250YXV

Dimensions in inches (mm). Weights in pounds/1000 feet (Kg/1000 M).

SPCW: Silver-plated copperweld (copper-covered steel). **SPC:** Silver-plated copper.

All values are nominal unless otherwise indicated.

Electrical Performance

Thermax P/N	Nominal Impedance	Velocity of Propagation	Capacitance (pF/ft)	Attenuation (dB/100 ft.)					Resistance (Ω/1000 ft)	
				500 MHz	1 GHz	5 GHz	10 GHz	20 GHz	Conductor	Shield
670-086	50Ω	69.5%	29.0	15.0	22.0	50.0	80.0	130.0	65.7	10.2
670-086/75	75Ω	69.5%	19.5	16.8	24.5	56.0	82.0	130.0	205.0	10.2
670-141	50Ω	69.5%	29.0	8.0	12.0	29.0	45.0	70.0	20.5	5.5
670-250	50Ω	69.5%	29.6	5.1	7.5	19.0	33.0	—	2.52	1.8

All values are nominal unless otherwise indicated.

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Construction Details

Jacket: Where indicated, FEP or PVC.

Outer shield: Copper-tin composite, 100% coverage.

Dielectric: Solid PTFE.

Center Conductor: Solid SPC or SPCW (see table).