



Cross-linked Modified Polyethylene - 600V & 1000V, 125°C

Military

MIL-W-16878/14 & /15

Application

This irradiated polyolefin insulated wire has outstanding flame retardant and high temperature characteristics. It combines excellent thermal stability and high electrical values to provide a superior, small diameter, electronic hook-up wire. The wire passes the difficult VW-1 fire test, has thermoset mechanical characteristics, and very low levels of corrosive content. These wires offer a cost effective alternative between polyvinylchloride (PVC) and the more expensive fluoropolymers such as Teflon and Tefzel.

Conductor

Soft annealed tinned copper, stranded as listed below.

Insulation

Extruded layer of irradiation cross-linked polyolefin meeting the requirements of specification DAA 1066. Wall thicknesses are listed below.

Approvals & Ratings

125°C conductor temperature, 600 volt.
MIL-W-16878/14.

125°C conductor temperature, 1000 volt.
MIL-W-16878/15.

Product Number	Conductor Size		Stranding	Nominal Insulation Wall		Max. Diameter		Approx. Weight	
	(AWG)	(mm ²)		(Inch)	(mm)	(Inch)	(mm)	(#/m ²)	(kg/km)
MIL-W-16878/14, 600V									
M16878/14-BBB	30	.06	7/38	.0105	.27	0.034	.86	0.8	1.19
M16878/14-BCB	28	.09	7/36	.0105	.27	0.037	.94	1.1	1.64
M16878/14-BDB	26	.14	7/34	.0105	.27	0.041	1.04	1.5	2.23
M16878/14-BEB	24	.23	7/32	.0105	.27	0.047	1.19	2.1	3.12
M16878/14-BEE	24	.24	19/36	.0105	.27	0.047	1.19	2.1	3.12
M16878/14-BFB	22	.35	7/30	.0105	.27	0.053	1.35	3.1	4.61
M16878/14-BFE	22	.38	19/34	.0105	.27	0.053	1.35	3.1	4.61
M16878/14-BGE	20	.62	19/32	.0105	.27	0.061	1.55	4.7	6.99
M16878/14-BHE	18	.96	19/30	.0105	.27	0.071	1.80	7.1	10.5
M16878/14-BJE	16	1.23	19/29	.011	.28	0.081	2.06	9.3	13.8
M16878/14-BKE	14	1.94	19/27	.011	.28	0.096	2.44	14.1	21
MIL-W-16878/15, 1000V									
M16878/15-BDB	26	.14	7/34	.0165	.42	0.057	1.45	2.0	2.98
M16878/15-BEB	24	.23	7/32	.0165	.42	0.062	1.57	2.7	4.02
M16878/15-BEE	24	.24	19/36	.017	.43	0.062	1.57	2.6	3.87
M16878/15-BFB	22	.35	7/30	.0165	.42	0.068	1.73	3.7	5.51
M16878/15-BFE	22	.38	19/34	.017	.43	0.068	1.73	3.8	5.65
M16878/15-BGE	20	.62	19/32	.017	.43	0.076	1.93	5.5	8.18
M16878/15-BHE	18	.96	19/30	.017	.43	0.086	2.18	7.9	11.7
M16878/15-BJE	16	1.23	19/29	.017	.43	0.095	2.41	9.7	14.4
M16878/15-BKE	14	1.94	19/27	.019	.48	0.110	2.79	15.8	23
M16878/15-BLE	12	3.08	19/25	.019	.48	0.131	3.33	24.1	36