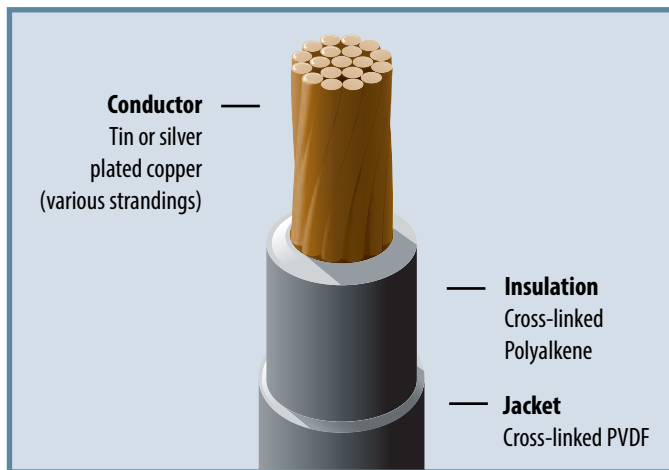# SAE AS81044/8 & 9
Cross-Linked Polyalkene/PVDF - 600V, 150°C

APPLICATION

This dual layer, medium weight, high temperature wire offers outstanding performance that makes it suitable for many applications where high density cabling and harnessing are required. Besides offering size and weight advantages, these wire have excellent resistance to cut through, abrasion, cold flow, shrink back, notch propagation and common chemicals. In addition, they strip and stripe easily, may be potted, and have low smoke characteristics. This wire should be considered for airframe, avionics, military vehicle, shipboard, missile, and other electronic applications.

Medium Weight Wall

Conductor —
Tin or silver plated copper us strandings)

Insulation
Cross-linked Polyalkene

Jacket
Cross-linked PVDF

CONDUCTOR

Soft annealed tin plated copper or silver plated copper, stranded as listed below.

INSULATION

Irradiation cross-linked extruded Polyalkene meeting the requirements of the below specification.

Irradiation cross-linked d Polyvinylidene Fluoride (PVDF) with a wall thickness of 0.005 ± .001 inches (.127 ± .025mm). Finished wire diameter and weight as listed below.

Part Number	Conductor				Conductor Resistance @20°C		Nom. Diameter		Weight	
	Size		Strand-ing							
	AWG	mm²			Ω/kft	Ω/km	Inch	mm	lbs/kft	kg/km
81044/08-24-X	24	.24	19/36	SC	24.3	79.7	.054	1.37	2.7	4.02
81044/08-22-X	22	.38	19/34		15.1	49.5	.062	1.57	3.9	5.80
81044/08-20-X	20	.62	19/32		9.19	30.2	.070	1.78	5.5	8.18
81044/08-18-X	18	.96	19/30		5.79	19.0	.080	2.03	8.0	11.9
81044/08-16-X	16	1.23	19/29		4.52	14.8	.089	2.26	10.1	15.0
81044/08-14-X	14	1.94	19/27		2.88	9.45	.108	2.74	15.5	23.0
81044/08-12-X	12	3.00	37/28		1.90	6.23	.126	3.20	23.0	34.0
81044/08-10-X	10	4.74	37/26		1.15	3.77	.155	3.94	35.7	53.0
81044/08-8-X	8	8.61	133/29		.658	2.16	.214	5.44	62.8	93.0
81044/08-6-X	6	13.6	133/27		.418	1.37	.264	6.71	99.3	148
81044/09-24-X	24	.24	19/36	TC	26.2	86.0	.056	1.42	2.7	4.02
81044/09-22-X	22	.38	19/34		16.2	53.2	.065	1.65	3.9	5.80
81044/09-20-X	20	.62	19/32		9.88	32.4	.073	1.85	5.5	8.18
81044/09-18-X	18	.96	19/30		6.23	20.4	.083		8.0	11.9
81044/09-16-X	16	1.23	19/29		4.81	15.8	.093		10.1	15.0
81044/09-14-X	14	1.94	19/27		3.06	10.0	.112		15.5	23.0
81044/09-12-X	12	3.00	37/28		2.02	6.63	.130		23.0	34.0
81044/09-10-X	10	4.74	37/26		1.26	4.13	.160	4.06	35.7	53.0
81044/09-8-X	8	8.61	133/29		.701	2.30	.220	5.59	62.8	93.0
81044/09-6-X	6	13.6	133/27		.445	1.46	.271	6.88	99.3	148

X = color. See page 67 for color designator.
The above part numbers represent the more popular constructions. However, other designs are available upon request.
All products are manufactured to meet RoHS compliance. For exceptions, please contact our sales department.

APPROVALS AND RATINGS

150°C conductor temperature, 600-volt. SAE AS81044/8 & /9.

CABLES

Cables may be assembled using the requirements of NEMA WC 27500, using Type MG & MH components of /8 & /9 respectively.

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