AEROSPACE

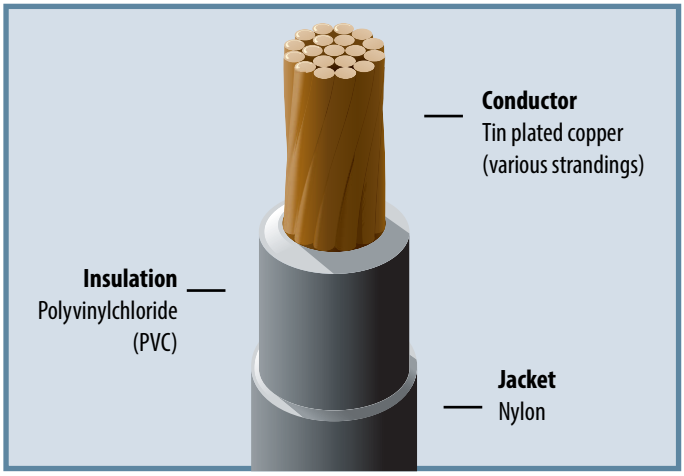
SAE AS50861/1

Polyvinylchloride/Nylon
600V, 105°C

Lightweight Wall / Reference: 5086/1

APPLICATION

This general purpose PVC/nylon wiring material may be used in electrical or electronic applications. The nylon insulation jacketing material provides a very tough, abrasion resistant wire. The wire also has excellent resistance to moisture, fuels, hydraulic fluids, and other common industrial solvents. This wire should be considered for use in any application where it may be exposed to abrasion, high impact loads, other mechanical damage or chemical abuse. Due to the PVC content, this wire should not be used in manned aerospace systems.



CONDUCTOR

Soft annealed tin plated copper, stranded as listed below.

INSULATION

Thermoplastic Polyvinylchloride compounded for high temperature use.

JACKET

Clear nylon.

Part Number	Conductor				Conductor Resistance @20°C		Nom. Diameter		Weight	
	Size		Stranding	Material						
	AWG	mm²			Ω/kft	Ω/km	Inch	mm	lbs/kft	kg/km
50861/01-22-X	22	.38	19/34	TC	16.2	53.2	.068	1.73	4.0	5.95
50861/01-20-X	20	.62	19/32		9.88	32.4	.078	1.98	6.0	8.93
50861/01-18-X	18	.96	19/30		6.23	20.4	.088	2.23	8.3	12.3
50861/01-16-X	16	1.23	19/29		4.81	15.8	.098	2.49	10.3	15.0
50861/01-14-X	14	1.94	19/27		3.06	10.0	.117	2.97	15.7	23.0
50861/01-12-X	12	3.08	37/28		2.02	6.63	.137	3.48	23.7	35.0
50861/01-10-X	10	4.74	37/26		1.26	4.13	.159	4.04	35.0	52.0

X = color. See page 67 for color designator.
The above part numbers represent the more popular constructions. However, other designs are available upon request.

APPROVALS AND RATINGS

600 volt AC, 105°C continuous conductor temperature, SAE AS50861/1.

MARMON Aerospace & Defense