

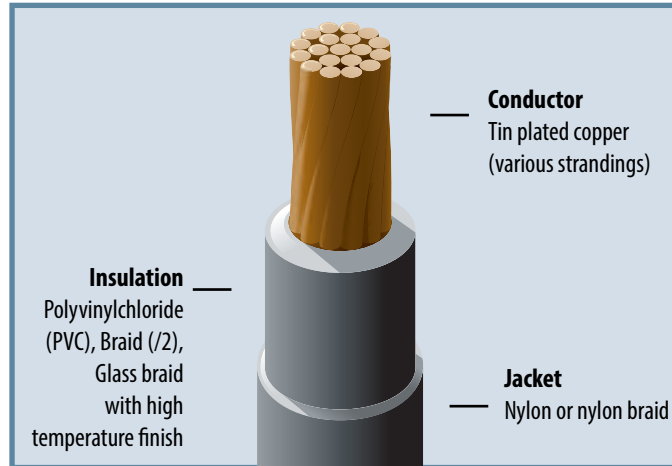
SAE AS50861/1 & 2

Polyvinylchloride/Nylon
600V, 105°C

APPLICATION

This general purpose PVC/nylon wiring material may be used in electrical or electronic applications. The nylon insulation jacketing material, and braid on /2, provide 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.

Lightweight Wall / Reference: 5086/1 & /2



CONDUCTOR

Soft annealed tin plated copper, stranded as listed below.

INSULATION

Thermoplastic Polyvinylchloride compounded for high temperature use.

JACKET

Clear nylon for /1 or impregnated glass braid plus clear nylon extension or nylon braid for larger sizes on /2.

Part Number	Conductor				Conductor Resistance @20°C		Nom. Diameter		Weight		
	Size		Stranding		Ω/kft	Ω/km	Inch	mm	lbs/kft	kg/km	
	AWG	mm ²									
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	
50861/02-22-X	22	.38	19/34		16.2	53.2	.073	1.85	4.2	6.25	
50861/02-20-X	20	.62	19/32		9.88	32.4	.083	2.11	6.2	9.22	
50861/02-18-X	18	.96	19/30		6.23	20.4	.093	2.36	8.6	12.8	
50861/02-16-X	16	1.23	19/29		4.81	15.8	.103	2.62	10.7	16.0	
50861/02-14-X	14	1.94	19/27		3.06	10.0	.126	3.20	16.7	25.0	
50861/02-12-X	12	3.00	37/28		2.02	6.63	.143	3.63	25.0	37.0	
50861/02-10-X	10	4.74	37/26		1.26	4.13	.189	4.80	40.1	60.0	
SIZES LISTED BELOW HAVE NYLON BRAID OVERALL											
50861/02-8-X	8	8.61	133/29		TC	.701	2.30	.239	6.07	66.0	98.0
50861/02-6-X	6	13.6	133/27			.445	1.46	.293	7.44	105	156
50861/02-4-X	4	22.0	133/25			.280	.919	.349	8.86	160	238
50861/02-2-X	2	34.0	665/30	.183		.600	.420	10.7	245	364	
50861/02-1-X	1	41.0	817/30	.149		.489	.467	11.9	304	452	
50861/02-1X0-X	1/0	53.0	1045/30	.116		.381	0.525	13.3	392	583	
50861/02-2X0-X	2/0	67.0	1330/30	.091		.299	0.587	14.9	493	733	
50861/02-3X0-X	3/0	85.0	1661/30	.071		.233	0.640	16.0	604	899	
50861/02-4X0-X	4/0	107	2109/30	.056		.184	0.725	18.0	770	1146	

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 & /2.