

**Product Title:**

**TYPE AD-87**

**Temperature Rating:**

**-55°C to + 200°C**

**Voltage Rating: 600 V rms**

**MIL-DTL-8777/MS25471 WIRE**

Normal Wall Silicone Wire Cable



**Conductor:** Soft Annealed Silver Coated Copper, Stranded

**Insulation:** Silicone Rubber

**Jacket:** Dual Braids, coated to provide protection from military fluids, and to reduce fraying.

**Drawing Number**

**AD-87**

**Applications**

This multi layer, normal weight, high temperature wire offers outstanding flexibility and performance which makes it suitable for many applications where high density cabling and harnessing are required to make tight bends.

Besides this advantage, these wires have excellent resistance to cut-through, abrasion, cold flow, shrink back, notch propagation and common military chemicals.

This wire should be considered for airframe, avionics, military vehicle, shipboard, missile, and other electronic applications.

**Typical Properties**

Aging: Oven Temperature, 232°C for 6 hours

Cold Bend: -55°C

Flammability: 30 Second (max) 3" (max); No flaming of tissue paper

Humidity Resistance: 500 Meg-ohms for 1000 ft, min

Spark Test: 5700 V rms

Insulation Resistance: 100 Meg-ohms for 1000 ft. min

Tensile Strength: 800 psi min

Elongation: 150% min

Thermal Shock: .125" max @ 215°C

Smoke: 210°C

Fluid Immersion: Lubricating Oil, Hydraulic fluid, Isopropyl alcohol, Aviation fuel

Part Number	Conductor			Conductor Resistance @20°C	Nom. Diameter	Weight
	Size		Stranding			
	AWG	mm <sup>2</sup>		Ω/kft	Inch	Lbs/kft
AD25471-16-X	16	1.5	19	4.72	.125	13.5
AD25471-14-X	14	1.8	19	2.99	.143	20.0
AD25471-12-X	12	2.3	19	1.88	.163	29.0
AD25471-10-X	10	3.2	49	1.16	.193	45.0
AD25471-8-X	8	4.4	133	.70	.248	72.0
AD25471-6-X	6	5.5	133	.436	.303	107.0
AD25471-4-X	4	6.9	133	.274	.360	165.0
AD25471-2-X	2	8.7	665	.179	.425	262.0
AD25471-1-X	1	9.7	817	.144	.460	317.0
AD25471-0-X	0	10.9	1045	.114	.535	390.0
AD25471-00-X	00	12.4	1330	.090	.585	500.0
AD25471-0000-X	0000	15.0	2109	.056	.810	800.0