



Polyvinylchloride/ Nylon - 600V, 105°C Military MIL-W-5086/1

Application

This general purpose PVC/nylon wiring material may be used in electrical or electronic applications. The nylon conductor 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 tinned copper, stranded as listed below.

Insulation

Thermoplastic Polyvinylchloride compounded for high temperature use.

Jacket

Clear nylon with thickness listed below.

Approvals & Ratings

600 volt AC, 105°C continuous conductor temperature, MIL-W-5086/1.

Product Number	Conductor Size		Stranding	Jacket Wall		Diameter		Approx. Weight	
	(AWG)	(mm ²)		(Inch)	(mm)	(Inch)	(mm)	(#/m')	(kg/km)
M5086/1-22	22	.38	19/34	.006	.15	0.068	1.73	4.0	5.95
M5086/1-20	20	.62	19/32	.006	.15	0.078	1.98	6.0	8.93
M5086/1-18	18	.96	19/30	.006	.15	0.088	2.23	8.3	12.3
M5086/1-16	16	1.23	19/29	.006	.15	0.098	2.49	10.3	15
M5086/1-14	14	1.94	19/27	.006	.15	0.117	2.97	15.7	23
M5086/1-12	12	3.08	37/28	.006	.15	0.137	3.48	23.7	35
M5086/1-10	10	4.74	37/26	.006	.15	0.159	4.04	35.0	52