

MIL-W-8777

Mil-W-8777 Mil-spec Wire is a single conductor wire made from copper wire with silicone insulation.

Primarily used for aircraft and missiles, Mil-W-8777 can be used in temperatures not exceeding 200° C.

There are two different cables under Mil-W-8777: MS27110 and MS25471.

MS 27110 (Mil-W-8777 Wire)

MS 25471 (Mil-W-8777 Wire)

MS27110 is the standard for Mil-W-8777 wire with an FEP jacket. MS25471 is the standard for Mil-W-8777 wire with a polyester jacket.

mil-w-5086 | SAE as50861 / 4 / 4

mil-w-5086 | SAE as50861 / 5 / 5

mil-w-5086 | SAE as50861 / 6 / 6

mil-w-5086 | SAE as50861 / 7 / 7



MIL-W-8777

MIL-W-8777军规电线电缆是铜线制成硅绝缘单导线。主要用于飞机和导弹，MIL-W-8777可在温度不超过200℃的使用。有MIL-W-8777两种不同的电缆：MS27110和MS

MS27110（MIL-W-8777线）

MS25471（MIL-W-8777线）

MS27110是MIL-W-8777线与FEP护套的标准。 MS25471是MIL-W-8777线与聚酯护套的标准。

MS 27110 (Mil-W-8777 Wire)

MS 27110 (Mil-W-8777 Wire)
Silicone Rubber/Braid/FEP
600 V, 200° C

MS 27110 (Mil-W-8777 Wire) Approvals:

600 Volts
200° C
MIL-W-8777

MS 27110 (Mil-W-8777 Wire) Construction:

Conductor: Soft annealed silver-plated copper, stranded as listed below
Insulation: Extruded silicone rubber meeting the requirements of the above approvals
Braid: Glass braid with high temperature finish
Jacket: Extrusion of fluorinated ethylene propylene (FEP)
MS 27110 (Mil-W-8777 Wire) Features & Benefits:

Suitable for many high temperature applications.
The silicone insulation provides excellent dielectric strength and ozone resistance
It has low moisture absorption and generally good resistance to chemicals
The glass braid/FEP jacket provides enhanced mechanical durability

Part Number	AWG Size	Nom. O.D. (in)	Approx LBS/MFT	Conductor Stranding	Jacket Thick	M27500 Component
MS27110-22	22	0.086	7.1	19/34	0.007	F
MS27110-20	20	0.096	9.0	19/32	0.007	F
MS27110-18	18	0.108	12.1	19/30	0.007	F
MS27110-16	16	0.116	14.3	19/29	0.007	F
MS27110-14	14	0.141	21.5	19/27	0.008	F
MS27110-12	12	0.180	30.5	19/25	0.008	F
MS27110-10	10	0.194	48.0	49/27	0.008	F
MS27110-8	8	0.243	75.0	133/29	0.010	F
MS27110-6	6	0.292	114.0	133/27	0.010	F
MS27110-4	4	0.357	173.0	133/25	0.010	F



MS 25471 (Mil-W-8777 Wire)

MS 25471 (Mil-W-8777 Wire)
Silicone Rubber/Braid/FEP
600 V, 200° C

MS 25471 (M8777 Wire) Approvals:

Voltage Rating: 600 Volts
Temperature Rating: 200° C
Mil Spec: MIL-W-8777

MS 25471 (M8777 Wire) Construction:

Conductor: Soft annealed silver-plated copper, stranded as listed below
Insulation: Extruded silicone rubber meeting the requirements of the above approvals
Jacket: Impregnated glass braid plus impregnated polyester braid
MS 25471 (M8777 Wire) Features & Benefits:

Suitable for many high temperature applications.
The silicone insulation provides excellent dielectric strength and ozone resistance
It has low moisture absorption and generally good resistance to chemicals
The glass doubly braided jacket provides enhanced mechanical durability

Part Number	AWG Size	Approx LBS/MFT	Conductor Stranding	Nom. O.D. (in)	M27500 Component
MS25471-22	22	5.8	19/34	0.085	H
MS25471-20	20	7.8	19/32	0.095	H
MS25471-18	18	10.8	19/30	0.110	H
MS25471-16	16	13.5	19/29	0.125	H
MS25471-14	14	20.0	19/27	0.143	H
MS25471-12	12	29.0	19/25	0.163	H
MS25471-10	10	45.0	49/27	0.193	H
MS25471-8	8	72.0	133/29	0.248	H
MS25471-6	6	107.0	133/27	0.303	H
MS25471-4	4	165.0	133/25	0.360	H
MS25471-2	2	262.0	665/30	0.425	H
MS25471-1	1	317.0	817/30	0.460	H
MS25471-01	1/0	390.0	1045/30	0.535	H
MS25471-02	2/0	500.0	1330/30	0.585	H



25471。