



M22759 Specifications Sheet

(MIL-W-)
(MIL-DTL-)

M 22759 / 11 - 18 - 9045

Slant Sheet, see below

AWG

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Color (First is base color with up to 3 stripes)										
Number	0	1	2	3	4	5	6	7	8	9
Color	Black	Brown	Red	Orange	Yellow	Green	Blue	Violet	Gray	White

M22759 Slant Sheet	Insulation Material	Conductor Plating	Temperature Rating	Voltage Rating
M22759/5	Extruded mineral-filled PTFE ¹	Silver	200	600
M22759/6	Extruded mineral-filled PTFE ¹	Nickel	260	600
M22759/7	Extruded mineral-filled PTFE (light weight) ¹	Silver	200	600
M22759/8	Extruded mineral-filled PTFE (light weight) ¹	Nickel	260	600
M22759/9	Extruded PTFE	Silver	200	1000
M22759/10	Extruded PTFE	Nickel	260	1000
M22759/11	Extruded PTFE (medium weight)	Silver	200	600
M22759/12	Extruded PTFE (medium weight)	Nickel	260	600
M22759/16	Extruded ETFE	Tin	150	600
M22759/17	Extruded ETFE	Silver	150	600
M22759/18	Extruded ETFE (light weight)	Tin	150	600
M22759/19	Extruded ETFE (light weight)	Silver	150	600
M22759/20	Extruded PTFE	Silver ³	200	1000
M22759/21	Extruded PTFE	Nickel ³	260	1000
M22759/22	Extruded PTFE (light weight)	Silver ³	200	600
M22759/23	Extruded PTFE (light weight)	Nickel ³	260	600
M22759/28	Extruded PTFE with polyimide hardcoat ¹	Silver	200	600
M22759/29	Extruded PTFE with polyimide hardcoat ¹	Nickel	260	600
M22759/30	Extruded PTFE with polyimide hardcoat ¹	Silver ³	200	600
M22759/31	Extruded PTFE with polyimide hardcoat ¹	Nickel ³	260	600
M22759/80	PTFE/polyimide/PTFE tape and PTFE tape (light weight) ²	Tin	150	600
M22759/81	PTFE/polyimide/PTFE tape and PTFE tape (light weight) ²	Silver ³	200	600
M22759/82	PTFE/polyimide/PTFE tape and PTFE tape (light weight) ²	Nickel ³	260	600
M22759/83	PTFE/polyimide/PTFE tape and PTFE tape ²	Silver	200	600
M22759/84	PTFE/polyimide/PTFE tape and PTFE tape ²	Nickel	260	600
M22759/85	PTFE/polyimide/PTFE tape and PTFE tape ²	Tin	150	600
M22759/86	PTFE/polyimide/PTFE tape and PTFE tape ²	Silver	200	600
M22759/87	PTFE/polyimide/PTFE tape and PTFE tape ²	Nickel	260	600
M22759/88	PTFE/polyimide/PTFE tape and PTFE tape ²	Tin	150	600
M22759/89	PTFE/polyimide/PTFE tape and PTFE tape ²	Silver ³	200	600
M22759/90	PTFE/polyimide/PTFE tape and PTFE tape ²	Nickel ³	260	600
M22759/91	PTFE/polyimide/PTFE tape and PTFE tape (light weight) ²	Silver	200	600
M22759/92	PTFE/polyimide/PTFE tape and PTFE tape (light weight) ²	Nickel	260	600

Temperature in °C

¹ High abrasion resistance.

² Available with **Seamless Wrap** PTFE tape outer insulation.

³ High-strength and ultra-high-strength copper alloy conductors.

M22759 wires are surface printed with the MIL part number and manufacturer's CAGE code (FSCM number).

MIL-DTL-22759/82 wire - light weight, composite insulation



MIL-DTL-22759/82 wires are light- weight, high-performance aerospace hookup wires with a dual-layer insulation of PTFE/polyimide/PTFE tape, covered with PTFE tape.

These wires are designed for aerospace and other applications requiring excellent thermal stability, light weight, and high break strength. These wires are available with our unique Seamless Wrap PTFE tape insulation

Item # **M22759/82-20** MIL-DTL-22759/82 wire - light weight, composite insulation

Specifications

Conductor Size (AWG)	20
Voltage rating - volts	600
Temperature rating °C	-55 to 260
Conductor	Nickel-Plated High-Strength Copper
Conductor Dia. Minimum - inches (mm)	.0365 (.93)
Conductor Dia. Maximum - inches (mm)	.0404 (1.03)
Stranding	19/32
Insulation	PTFE/polyimide/PTFE tape (inner layer); PTFE tape (outer layer).
Insulation Diameter Minimum - inches (mm)	.048 (1.22)
Insulation Diameter Maximum - inches (mm)	.051 (1.30)
Weight - pounds/1000 feet (Kg/1000m)	4.32 (6.4)
Maximum Resistance Ohm/1,000 feet (ohm/Km), @ 20°C	11.4 (37.4)

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Item # **M22759/82-22** MIL-DTL-22759/82 wire - light weight, composite insulation

Specifications

Conductor Size (AWG)	22
Voltage rating - volts	600
Temperature rating °C	-55 to 260
Conductor	Nickel-Plated High-Strength Copper
Conductor Dia. Minimum - inches (mm)	.0285 (.72)
Conductor Dia. Maximum - inches (mm)	.0314 (.80)
Stranding	19/34
Insulation	PTFE/polyimide/PTFE tape (inner layer); PTFE tape (outer layer).
Insulation Diameter Minimum - inches (mm)	.040 (1.02)
Insulation Diameter Maximum - inches (mm)	.043 (1.09)
Weight - pounds/1000 feet (Kg/1000m)	2.83 (4.2)
Maximum Resistance Ohm/1,000 feet (ohm/Km), @ 20°C	18.6 (61.0)

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Item # M22759/82-24 MIL-DTL-22759/82 wire - light weight, composite insulation**Specifications**

Conductor Size (AWG)	24
Voltage rating - volts	600
Temperature rating °C	-55 to 260
Conductor	Nickel-Plated High-Strength Copper
Conductor Dia. Minimum - inches (mm)	.0225 (.57)
Conductor Dia. Maximum - inches (mm)	.0254 (.65)
Stranding	19/36
Insulation	PTFE/polyimide/PTFE tape (inner layer); PTFE tape (outer layer).
Insulation Diameter Minimum - inches (mm)	.034 (.86)
Insulation Diameter Maximum - inches (mm)	.038 (.97)
Weight - pounds/1000 feet (Kg/1000m)	1.87 (2.8)
Maximum Resistance Ohm/1,000 feet (ohm/Km), @ 20°C	30.1 (98.3)

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Item # **M22759/82-26** MIL-DTL-22759/82 wire - light weight, composite insulation

Specifications

Conductor Size (AWG)	26
Voltage rating - volts	600
Temperature rating °C	-55 to 260
Conductor	Ultra-High-Strength Copper Alloy
Conductor Dia. Minimum - inches (mm)	.0175 (.44)
Conductor Dia. Maximum - inches (mm)	.0204 (.52)
Stranding	19/38
Insulation	PTFE/polyimide/PTFE tape (inner layer); PTFE tape (outer layer).
Insulation Diameter Minimum - inches (mm)	.030 (.72)
Insulation Diameter Maximum - inches (mm)	.034 (.86)
Weight - pounds/1000 feet (Kg/1000m)	1.38 (2.1)
Maximum Resistance Ohm/1,000 feet (ohm/Km), @ 20°C	58.4 (191)

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