



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

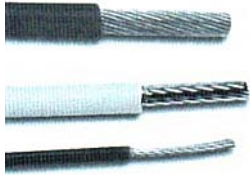
Temperature in °C

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-W-22759/11 wire - extruded PTFE insulation

MIL-W-22759/11 wires have extruded PTFE insulation for high-temperature applications where the additional abrasion resistance of mineral-filled PTFE insulation is not required. These wires are especially well-suited in applications where smoke emission, overload stability, and flammability are major concerns. These wires are similar to MIL-W-22759/9 and /10 wires, but have a thinner-wall insulation and 600V voltage rating.

Item # 8-ATE-13329 MIL-W-22759/11 wire - extruded PTFE insulation

Specifications

Conductor Size (AWG)	8
Voltage rating - volts	600
Temperature rating °C	-55 to 200
Conductor	Silver-Plated Copper
Conductor Diameter - inches (mm)	.162 (4.11)
Stranding	133/29
Insulation	Thin-wall extruded PTFE
Insulation Diameter Minimum - inches (mm)	.198 (5.03)
Insulation Diameter Maximum - inches (mm)	.206 (5.23)
Weight - pounds/1000 feet (Kg/1000m)	57.8 (86.1)
Maximum Resistance Ohm/1,000 feet (ohm/Km), @ 20°C	.658 (2.16)

勝特力材料 886-3-5753170
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Item # 10-ATE-3726 MIL-W-22759/11 wire - extruded PTFE insulation**Specifications**

Conductor Size (AWG)	10
Voltage rating - volts	600
Temperature rating °C	-55 to 200
Conductor	Silver-Plated Copper
Conductor Diameter - inches (mm)	.108 (2.74)
Stranding	37/26
Insulation	Thin-wall extruded PTFE
Insulation Diameter Minimum - inches (mm)	.135 (3.43)
Insulation Diameter Maximum - inches (mm)	.143 (3.63)
Weight - pounds/1000 feet (Kg/1000m)	34.9 (52.0)
Maximum Resistance Ohm/1,000 feet (ohm/Km), @ 20°C	1.19 (3.90)

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Item # 12-ATE-1925 MIL-W-22759/11 wire - extruded PTFE insulation

Specifications

Conductor Size (AWG)	12
Voltage rating - volts	600
Temperature rating °C	-55 to 200
Conductor	Silver-Plated Copper
Conductor Diameter - inches (mm)	.086 (2.18)
Stranding	19/25
Insulation	Thin-wall extruded PTFE
Insulation Diameter Minimum - inches (mm)	.108 (2.74)
Insulation Diameter Maximum - inches (mm)	.114 (2.90)
Weight - pounds/1000 feet (Kg/1000m)	23.5 (35.0)
Maximum Resistance Ohm/1,000 feet (ohm/Km), @ 20°C	1.81 (5.94)

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Item # 14-ATE-1927 MIL-W-22759/11 wire - extruded PTFE insulation

Specifications

Conductor Size (AWG)	14
Voltage rating - volts	600
Temperature rating °C	-55 to 200
Conductor	Silver-Plated Copper
Conductor Diameter - inches (mm)	.067 (1.70)
Stranding	19/27
Insulation	Thin-wall extruded PTFE
Insulation Diameter Minimum - inches (mm)	.088 (2.24)
Insulation Diameter Maximum - inches (mm)	.092 (2.34)
Weight - pounds/1000 feet (Kg/1000m)	14.7 (21.9)
Maximum Resistance Ohm/1,000 feet (ohm/Km), @ 20°C	2.88 (9.45)

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Item # 16- ATE- 1929 MIL-W-22759/11 wire - extruded PTFE insulation

Specifications

Conductor Size (AWG)	16
Voltage rating - volts	600
Temperature rating °C	-55 to 200
Conductor	Silver-Plated Copper
Conductor Diameter - inches (mm)	.053 (1.35)
Stranding	19/29
Insulation	Thin-wall extruded PTFE
Insulation Diameter Minimum - inches (mm)	.073 (1.85)
Insulation Diameter Maximum - inches (mm)	.077 (1.96)
Weight - pounds/1000 feet (Kg/1000m)	9.64 (14.3)
Maximum Resistance Ohm/1,000 feet (ohm/Km), @ 20°C	4.52 (14.8)

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Item # 18-ATE-1930 MIL-W-22759/11 wire - extruded PTFE insulation

Specifications

Conductor Size (AWG)	18
Voltage rating - volts	600
Temperature rating °C	-55 to 200
Conductor	Silver-Plated Copper
Conductor Diameter - inches (mm)	.047 (1.19)
Stranding	19/30
Insulation	Thin-wall extruded PTFE
Insulation Diameter Minimum - inches (mm)	.066 (1.68)
Insulation Diameter Maximum - inches (mm)	.070 (1.78)
Weight - pounds/1000 feet (Kg/1000m)	7.58 (11.3)
Maximum Resistance Ohm/1,000 feet (ohm/Km), @ 20°C	5.79 (19.0)

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Item # 20-ATE-1932 MIL-W-22759/11 wire - extruded PTFE insulation

Specifications

Conductor Size (AWG)	20
Voltage rating - volts	600
Temperature rating °C	-55 to 200
Conductor	Silver-Plated Copper
Conductor Diameter - inches (mm)	.038 (.97)
Stranding	19/32
Insulation	Thin-wall extruded PTFE
Insulation Diameter Minimum - inches (mm)	.056 (1.42)
Insulation Diameter Maximum - inches (mm)	.060 (1.52)
Weight - pounds/1000 feet (Kg/1000m)	5.15 (7.66)
Maximum Resistance Ohm/1,000 feet (ohm/Km), @ 20°C	9.19 (30.1)

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Item # 22-ATE-1934 MIL-W-22759/11 wire - extruded PTFE insulation

Specifications

Conductor Size (AWG)	22
Voltage rating - volts	600
Temperature rating °C	-55 to 200
Conductor	Silver-Plated Copper
Conductor Diameter - inches (mm)	.030 (.76)
Stranding	19/34
Insulation	Thin-wall extruded PTFE
Insulation Diameter Minimum - inches (mm)	.047 (1.19)
Insulation Diameter Maximum - inches (mm)	.051 (1.30)
Weight - pounds/1000 feet (Kg/1000m)	3.44 (5.12)
Maximum Resistance Ohm/1,000 feet (ohm/Km), @ 20°C	15.1 (49.5)

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Item # 24-ATE-1936 MIL-W-22759/11 wire - extruded PTFE insulation

Specifications

Conductor Size (AWG)	24
Voltage rating - volts	600
Temperature rating °C	-55 to 200
Conductor	Silver-Plated Copper
Conductor Diameter - inches (mm)	.024 (.61)
Stranding	19/36
Insulation	Thin-wall extruded PTFE
Insulation Diameter Minimum - inches (mm)	.041 (1.04)
Insulation Diameter Maximum - inches (mm)	.045 (1.14)
Weight - pounds/1000 feet (Kg/1000m)	2.44 (3.59)
Maximum Resistance Ohm/1,000 feet (ohm/Km), @ 20°C	24.3 (79.7)

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Item # 26-ATE-1938 MIL-W-22759/11 wire - extruded PTFE insulation

Specifications

Conductor Size (AWG)	26
Voltage rating - volts	600
Temperature rating °C	-55 to 200
Conductor	Silver-Plated Copper
Conductor Diameter - inches (mm)	.019 (.48)
Stranding	19/38
Insulation	Thin-wall extruded PTFE
Insulation Diameter Minimum - inches (mm)	.036 (.91)
Insulation Diameter Maximum - inches (mm)	.040 (1.02)
Weight - pounds/1000 feet (Kg/1000m)	1.74 (2.59)
Maximum Resistance Ohm/1,000 feet (ohm/Km), @ 20°C	38.4 (126)

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Item # 28-ATE-736 MIL-W-22759/11 wire - extruded PTFE insulation

Specifications

Conductor Size (AWG)	28
Voltage rating - volts	600
Temperature rating °C	-55 to 200
Conductor	Silver-Plated Copper
Conductor Diameter - inches (mm)	.015 (.38)
Stranding	7/36
Insulation	Thin-wall extruded PTFE
Insulation Diameter Minimum - inches (mm)	.031 (.79)
Insulation Diameter Maximum - inches (mm)	.035 (.89)
Weight - pounds/1000 feet (Kg/1000m)	1.22 (1.82)
Maximum Resistance Ohm/1,000 feet (ohm/Km), @ 20°C	63.8 (209)

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