



Mil-W-22759/20
Mil-W-22759/21

Insulation: Polytetrafluoroethylene (PTFE)

Plated High Strength Copper Alloy Conductor

Voltage Rating: 1000 Volts

Temperature: - 55°C to + 200°C – M22759/20 Silver Plated Alloy

Temperature: - 55°C to + 260°C – M22759/21 Nickel Plated Alloy

Polytetrafluoroethylene (PTFE) insulation designed for aerospace applications. Ideal where resistance to high temperatures and high reliability are required. This wire is non-flammable, self-extinguishing, and resists soldering iron contact. It is preferred where smoke emission, current overload conditions, flammability, or mechanical attack may be problems. The high strength alloy conductor has greater flex life and break strength than copper conductor.

Wire Type RDS Number	Gauge	Stranding	Dimensional Data				
			Insulation O.D.		Resistance @ 20°C OHMS/1000' max	Break Strength Lbs. (Min.)	Nom. Weight Lbs/1000'
(SPHSCA)	(AWG)		Min.	Max.			
M22759/20-28-*	28	7/36	.041	.045	74.40	8.16	1.78
M22759/20-26-*	26	19/38	.046	.050	44.80	14.20	2.38
M22759/20-24-*	24	19/36	.051	.055	28.40	22.40	3.13
M22759/20-22-*	22	19/34	.058	.062	17.50	35.80	4.30
M22759/20-20-*	20	19/32	.066	.070	10.70	58.10	6.09

Wire Type RDS Number	Gauge	Stranding	Dimensional Data				
			Insulation O.D.		Resistance @ 20°C OHMS/1000' max	Break Strength Lbs. (Min.)	Nom. Weight Lbs/1000'
(NPHSCA)	(AWG)		Min.	Max.			
M22759/21-28-*	28	7/36	.041	.045	79.00	8.16	1.79
M22759/21-26-*	26	19/38	.046	.050	49.40	14.20	2.39
M22759/21-24-*	24	19/36	.051	.055	30.10	22.40	3.14
M22759/21-22-*	22	19/34	.058	.062	18.60	35.80	4.34
M22759/21-20-*	20	19/32	.066	.070	11.40	58.10	6.12

* = Color.

0 = Black, 1 = Brown, 2 = Red, 3 = Orange, 4 = Yellow, 5 = Green, 6 = Blue, 7 = Violet, 8 = Grey, 9 = White
 These colors may also be used for stripe combinations. Example: -90 = White with one Black stripe.
 Complete Mil Spec call out M22759/20 - 26 - 90 => { 26 AWG (19/38) White/Black }