

"BETTER-THAN-QPL" HIGH-AVAILABILITY Data Transmission Wire



M22759/11

Silver Coated Copper Wire with Extruded TFE Insulation

HOW TO ORDER						
Sample Part Number	M22759/11	-24	-9	0	1	2
Basic Part Number	M22759/11					
Wire Gage (AWG)	See Table I					
Wire Color	See Table II					
First Stripe Color Code	(Omit for none) See Table II					
Second Stripe Color Code	(Omit for none) See Table II					
Third Stripe Color Code	(Omit for none) See Table II					

NOTES

1. Cable identified with manufacturer's name and part number.
2. Cable is sold in 1 foot increments. Specify desired length on purchase order.

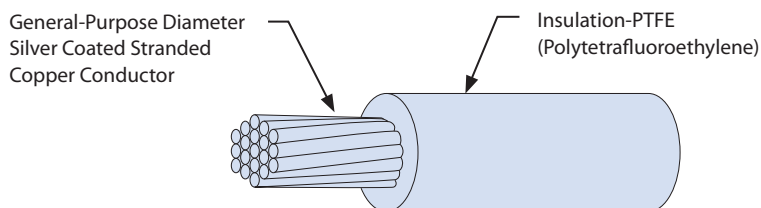


Table II: Jacket and Stripe Color Codes

Color code	Color
0	Black
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Violet
8	Gray
9	White

Table I: Part Number and Wire Specifications

Part Number	Wire Size (AWG)	Stranding (Number of strands x AWG gage of strands)	Diameter of stranded conductor (inches)		Finished Wire		
			min	max	Resistance at 20° C (68° F) (Ohms/ 1000 ft) max	Diameter (inches)	Weight (lbs/1000 ft) max
M22759/11-28-*	28	7 x 36	.014	.015	63.8	.033 ± .002	1.36
M22759/11-26-*	26	19 x 38	.018	.020	38.4	.038 ± .002	1.90
M22759/11-24-*	24	19 x 36	.023	.025	24.3	.043 ± .002	2.58
M22759/11-22-*	22	19 x 34	.029	.032	15.1	.049 ± .002	3.72
M22759/11-20-*	20	19 x 32	.037	.040	9.19	.058 ± .002	5.43
M22759/11-18-*	18	19 x 30	.046	.050	5.79	.068 ± .002	8.14
M22759/11-16-*	16	19 x 29	.052	.057	4.52	.075 ± .002	10.0
M22759/11-14-*	14	19 x 27	.065	.072	2.88	.090 ± .002	15.1
M22759/11-12-*	12	19 x 25	.082	.090	1.81	.111 ± .003	24.1
M22759/11-10-*	10	37 x 26	.106	.112	1.19	.139 ± .004	37.8
M22759/11-8-*	8	133 x 29	.158	.169	.658	.202 ± .004	65.5

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Table II: Test Data	
Temperature Rating	200° C (392° F) max conductor temperature
Voltage Rating	600 volts (rms) at sea level
Spark Test of Primary Insulation	not required
Impulse Dielectric Test	100% test, 8.0 kilovolts (peak) for sizes 18 and smaller 6.5 kilovolts (peak) for sizes 16 and larger.
Insulation Resistance	50,000 megohms for 1000 ft (min)
Wrap Test	"wrap back" test required, no cracking. Oven temperature: 313 ± 2° C (500 ± 3.6° F)
Blocking	260 ± 2° C (500 ± 3.6° F)
Shrinkage	0.03 inch max at 290 ± 2° C (554 ± 3.6° F)
Wicking	no requirement
Low Temperature (Cold Bend)	bend temperature: -65° ± 2° C (-85 ± 3.6° F) dielectric test: 3,000 volts (rms), 60 Hz
Thermal Shock	oven temperature: 200 ± 2° C (392 ± 3.6° F) max change in measurement: 0.06 inch
Flammability	post-flame dielectric test not required
Life Cycle	oven temperature 275 ± 2° C (527 ± 3.6° F) dielectric test: 3,000 volts (rms), 60 Hz
Dielectric Test After Immersion	3,000 volts (rms), 60 Hz
Acid Resistance	dielectric test, 3,000 volts (rms), 60 Hz
Conductor Strand Adhesion Requirements	shall be in accordance with 3.6.11 of MIL-W-22759
Abrasion Resistance After Immersion	no requirement
Humidity Resistance	no requirement
Surface Resistance	500 megohm-inches (min) initial and final readings
Smoke	290° C (554° F)
Color	in accordance with MIL-STD-104, class 1; white preferred
Color Striping or Banding Durability	250 cycles (500 strokes) minimum, 500 grams weight
Identification Durability	125 cycles (250 strokes) minimum, 500 grams weight
Wire Length Requirements	schedule A