

High-Voltage Wire

967-028

Tin-Coated Wire, 1000V Copper Conductor, Crosslinked Modified ETFE Insulation

FEATURES

- Conductor is tin coated copper per AS29606.
- Insulation is crosslinked modified ETFE (Ethylene-tetrafluoroethylene).
- Color code per MIL-STD-681. See MIL-STD-681 for additional wire color codes.
- Consult factory for custom stripe color order.
- Testing per QCD-967-028-SCC for silver/copper, QCD-967-028-NCC for nickel/copper, and QCD-967-028-TCC for tin/copper.

NOTES

1. Temperature rating: 150°C
Maximum continuous conductor temperature
2. Voltage rating: 1000 volts (rms) at sea level
3. Accelerated aging (crosslink proof): 300 ± 3°C for 7 hours
4. Blocking: 200 ± 3°C for 24 hours
5. Color: white preferred
6. Concentricity: 70% (minimum)
7. Flammability: procedure 1, 3 seconds (maximum); 3 inches (maximum);
8. No flaming of facial tissue
9. Humidity resistance: insulation resistance
 - 5000 Megohms for 1000 ft. (Minimum), awg 24 - 10
 - 3000 Megohms for 1000 ft. (Minimum), awg 8
10. Identification and color striping durability: 125 cycles (250 strokes) (Minimum), 500 g weight
11. Immersion: diameter increase 5% (maximum); no cracking, no dielectric breakdown

HOW TO ORDER							
Sample Part Number	967-028	-24	-TCC	-9	0	1	2
Basic Part Number	967-028 Tin-Coated Wire, Copper Conductor, Crosslinked Modified ETFE Insulation						
Wire Size	See Table I						
Conductor Type	SCC = Silver/Copper (-60°C to 200°C) NCC = Nickel/Copper (-60°C to 200°C) TCC = Tin/Copper (-60°C to 150°C)						
Insulation Color Code	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						

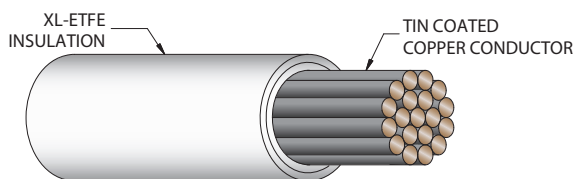


Table I: Part Number and Wire Specifications								
Part Number	Wire Size	Stranding (Number of strands x size gage of strands)	Diameter of stranded conductor (inches)		Finished Wire			Weight (lb/1000 ft) max
			min	max	Silver Copper Max Res at 20°C (68°F) (Ohms/1000 ft) max	Nickel Copper Max Res at 20°C (68°F) (Ohms/1000 ft) max	Tin Copper Max Res at 20°C (68°F) (Ohms/1000 ft) max	
967-028-24*	24	19 X 36	.023	.025	24.3	25.9	26.2	.056 ± .003 3.7
967-028-22*	22	19 X 34	.029	.031	15.1	16.0	16.2	.062 ± .003 4.9
967-028-20*	20	19 X 32	.037	.039	9.19	9.77	9.88	.070 ± .003 5.9
967-028-18*	18	19 X 30	.046	.049	5.79	6.10	6.23	.080 ± .004 8.6
967-028-16*	16	19 X 29	.052	.055	4.52	4.76	4.81	.087 ± .004 10.5
967-028-14*	14	19 X 27	.065	.069	2.88	3.00	3.06	.103 ± .004 15.3
967-028-12*	12	37 X 28	.084	.089	1.90	1.98	2.02	.120 ± .006 22.6
967-028-10*	10	37 X 26	.106	.113	1.19	1.24	1.26	.144 ± .006 34.6
967-028-8*	8	133 x 29	.158	.173	.658	.694	.701	.205 ± .008 63.6

Table II: Insulation and Stripe Color Codes			
Color code	Color	Color code	Color
0	Black	5	Green
1	Brown	6	Blue
2	Red	7	Violet
3	Orange	8	Gray
4	Yellow	9	White