

General Specifications

Physical Data		Units		End of Life
Contact Arrangement			SPST	
Form			Latching	
Dimensions			See drawing	
Weight, maximum		oz	1	
Environmental Data				
Shock, 11ms ½ sine (operating)		g_{peak}	50	
Vibration, 30 g_{peak}		Hz	55-2000	
Operating Temperature Range		°C	-55 to +100	
Electrical Data				
Test Voltage (Leakage Current 30µA maximum)		kV Peak	6	
Rated Operating Voltage				30µA max.
Dc or 60 Hz (Leakage Current 20µA maximum)			5	
2.5 MHz			4.5	
16 MHz			3.5	
32 MHz			2.8	
Continuous Current Carry Capability				
Dc or 60 Hz		A	35	
2.5 MHz		A	21	
16 MHz		A	14	
32 MHz		A	8	
Contact Resistance, maximum (Tested @ 6Vdc,1A)		Ω	0.020	0.040
Contact Capacitance				
Between Open Contacts		pF	1.2	
Open Contacts to Ground		pF	1.2	
Coil Hi-Pot		V Rms	500	
Mechanical Data				
Latch and Reset Time, Nominal		ms	1	
Latch and Reset Time, maximum (including bounce) operated between 13 to 32 Vdc coil voltage at 25°C		ms	2	2.5
Latch and Reset Time, maximum (including bounce) operated at 18 Vdc coil voltage from -55°C to 100°C		ms	2.5	3.0
Mechanical Life		cycles	2.5 Million at 95% Weibull Reliability	


Coil Data				
Coil Voltage, nominal		Vdc	26.5 ¹	
Coil Resistance		Ω	80 ±10%	
Latch and Reset Voltage, maximum at 25°C		Vdc	13	13.75
Latch and Reset Voltage, minimum at 25°C		Vdc	1.5	

Notes:

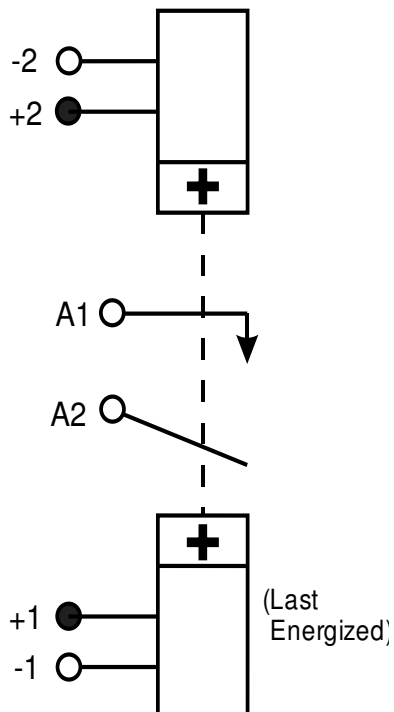
- Not for continuous duty, 10% maximum duty cycle. 3 ms minimum and 1s maximum energization time.
- Except as noted, Latch and Reset Time and Contact Bounce are measured with the relay stabilized at 25°C and operated with nominal coil voltage. Latch and Reset Times include bounce.
- Mechanical life test consists of 6 relays operated 1 million cycles at 25°C ±5°C. Life test units shall be subject to end of life values as shown:

Cycles	Failures Allowed
0 to 1.25 Million	NONE
1.25 Million – 2.5 Million	1

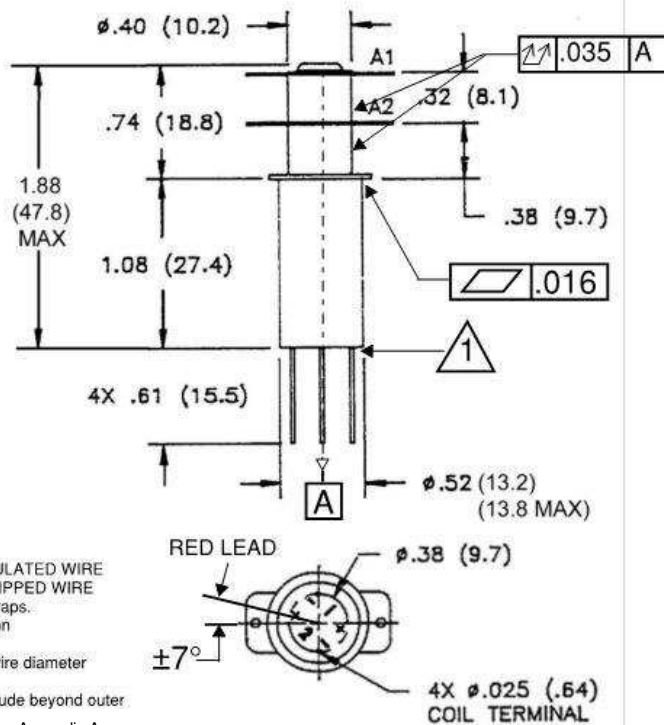
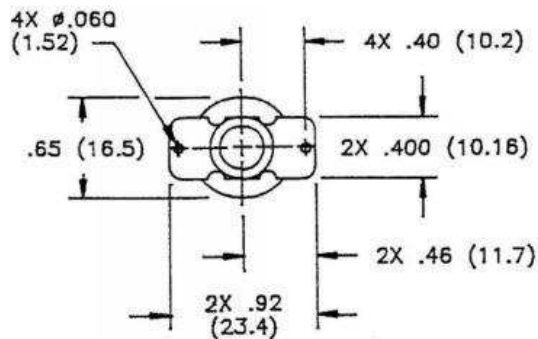
If Failure occurs at less than 1.25 Million cycles, mechanical life test shall be repeated on 9 additional relays. Parametric failures that are no more than 5% outside specification limits shall be attributed to measurements uncertainty and shall not constitute failure of mechanical life test.

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Schematic



Parts Drawing



NOTES:

- 1 WIRE WRAP
1-4 TURNS ON INSULATED WIRE
3-5 TURNS ON STRIPPED WIRE
No overlap of wire wraps.
No cracks in insulation
No bare copper.
No space over one wire diameter between turns.
End tails do not protrude beyond outer surface of wrap. See Appendix A.

See Appendix A.

Dimensions In Inches

(Dimensions in Parentheses are in Millimeters)

DO NOT SCALE DRAWING

**Tolerances Except
as Noted**

$$.XX = \pm .03$$
$$.XXX = \pm .010$$
$$\angle x^{\circ} = \pm 5^{\circ}$$

TITLE

RELAY

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Rev. G

CD

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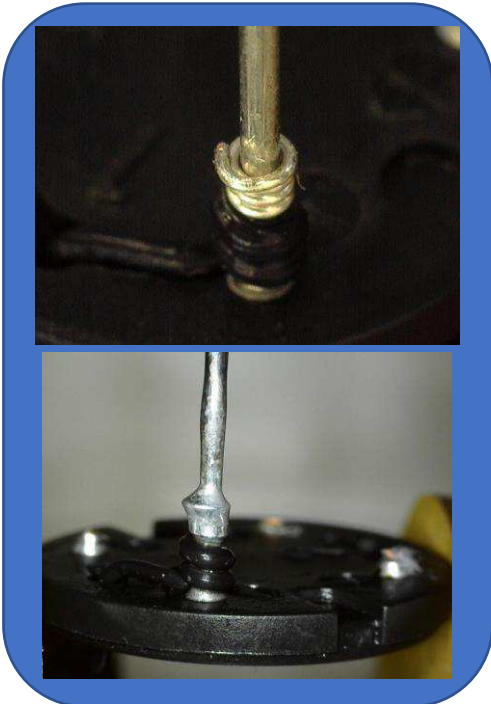
APPENDIX A

REFERENCE PHOTOGRAPHS

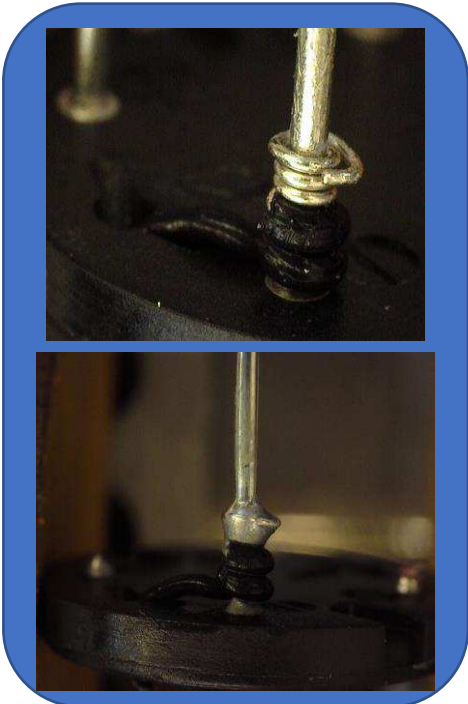
Wire Wrap



Preferred
No raised turns on insulated or bare wire.




Acceptable
No more than one-half turn raised within countable turns, bare and insulated wire.



Defect
More than one-half raised turn, raised turns overlap or override other turns.

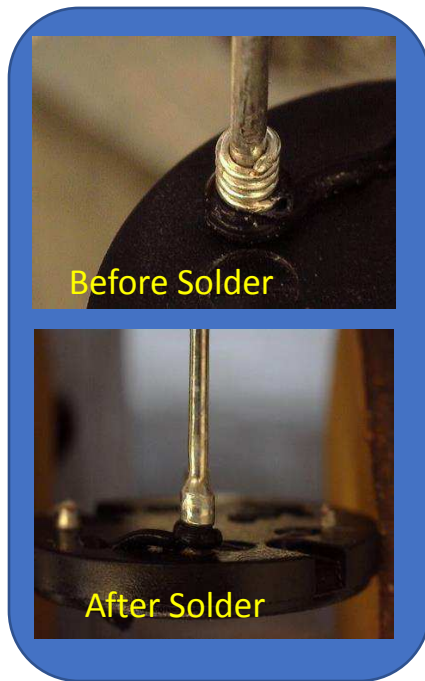
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APPENDIX A (Continued)

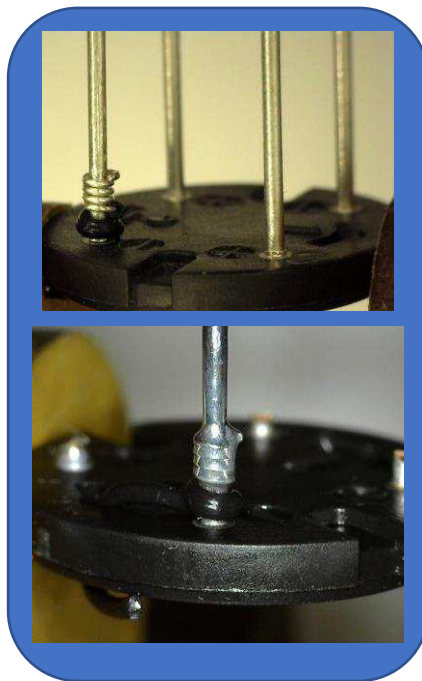
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Tail Ends



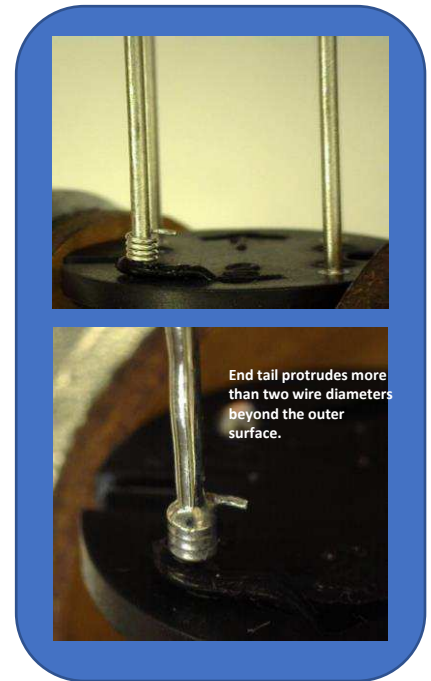
Preferred

End tail does not protrude beyond outer surface of wrap.



Acceptable

End tail protrudes no more than two diameters beyond the outer surface of the wrap.




Defect

End tail protrudes more than two diameters beyond the outer surface of the wrap.

Revisions

REV.	DESCRIPTION	DATE	APP.
C	Revised Pages 1 and 3 per ECO 9003	1993/06/01	RG
D	Revised and Reformatted All Pages per DCO 12317	2000/07/18	PK
E	Revised per DCO 400070; TWHaynes	2014/8/4	MG
F	Revise Page 2 per DCO 16569	2021/11/19	JR
G	Add Appendix A, DCO 16570	2022/02/22	JR

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