

# AMPHENOL 97 Series Circular Connectors Amphenol®

## 97 SERIES SOLDER TYPE (MIL-DTL-5015 STYLE) (CONT.)

**Service Rating:**

	DC	INST.	A	D	B	C
Limiting Operating Voltage at Sea Level	AC(RMS)	250	700	1250	2450	4200
		200	500	900	1750	3000

See notes 1 and 2 under Test Current  
INST. Service normally for low voltage and currents

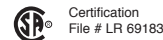
Effective Creepage (nominal)	inch	1/16	1/8	3/16	5/16	1
	mm	1.57	3.18	4.75	7.92	25.40
Mechanical Spacing (nominal)	inch	---	1/16	1/8	1/4	5/16
	mm	---	1.57	3.18	6.35	7.92

**Test Current:**

Contact Size Amperes	16	12	8	4
Wire Gauge (AWG)	16-22	12-14	8-10	4-6

NOTE 1: Transients were not considered in calculating these values  
NOTE 2: Limiting operating voltages at 50,000 feet altitude are approximately 25% of the sea level values.

**Contact Legend**



Insert Arrangements (Front view of Pin Insert, drawings not to scale.)							
Insert Arrangement Contacts Service Rating	<b>10SL-3</b> 3#16 A	<b>10SL-4</b> 2#16 A	<b>12S-3</b> 2#16 A	<b>14S-1</b> 3#16 A	<b>14S-2</b> 4#16 INST.	<b>14S-5</b> 5#16 INST.	<b>14S-6</b> 6#16 INST.
Insert Arrangement Contacts Service Rating	<b>14S-7</b> 3#16 A	<b>16S-1</b> 7#16 A	<b>16S-8</b> 5#16 A	<b>16-10</b> 3#12 A	<b>18-1</b> 10#16 B, C, F, G=A; all others=INST.	<b>18-4</b> 4#16 D	<b>18-8</b> 1#12, 7#16 A
Insert Arrangement Contacts Service Rating	<b>18-10</b> 4#12 A	<b>18-11</b> 5#12 A	<b>18-12</b> 6#16 A	<b>18-16</b> 1#12 C	<b>18-19</b> 10#16 A	<b>20-4</b> 4#12 D	<b>20-7</b> 8#16 A, B, H, G=D; C,D,E,F=A
Insert Arrangement Contacts Service Rating	<b>20-15</b> 7#12 A	<b>20-16</b> 7#16, 2#12 A	<b>20-27</b> 14#16 A	<b>20-29</b> 17#16 A	<b>22-14</b> 19#16 A	<b>22-19</b> 14#16 A	<b>24-2</b> 7#12 D
Insert Arrangement Contacts Service Rating	<b>24-5</b> 16#16 A	<b>24-7</b> 2#12, 14#16 A	<b>24-11</b> 3#8, 6#12 A	<b>24-28</b> 24#16 INST.	<b>28-10</b> 3#12, 2#8, 2#4 G=D; all others=A	<b>28-11</b> 4#12, 18#16 A	
Insert Arrangement Contacts Service Rating	<b>28-15</b> 35#16 A	<b>28-16</b> 20#16 A	<b>28-21</b> 37#16 A	<b>32-8</b> 6#12, 24#16 A	<b>32-414</b> 52#16 A		