

# AMPHENOL 97 Series Circular Connectors

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

### Service Rating:

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

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

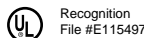
Effective Creepage (nominal)	Inch	1/16	1/8	3/16	5/16	1
	mm	1.57	3.18	4.75	7.92	25.40
Mechanical Spacing (nominal)	Inch	---	1/16	1/8	1/4	5/16
	mm	---	1.57	3.18	6.35	7.92

### Test Current:

Contact Size	16	12	8	4
Amperes	13	23	46	80
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	<b>10SL-3</b>	<b>10SL-4</b>	<b>12S-3</b>	<b>14S-1</b>	<b>14S-2</b>	<b>14S-5</b>	<b>14S-6</b>
Contacts	<b>3#16</b>	<b>2#16</b>	<b>2#16</b>	<b>3#16</b>	<b>4#16</b>	<b>5#16</b>	<b>6#16</b>
Service Rating	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>INST.</b>	<b>INST.</b>	<b>INST.</b>
Insert Arrangement	<b>14S-7</b>	<b>16S-1</b>	<b>16S-8</b>	<b>16-10</b>	<b>18-1</b>	<b>18-4</b>	<b>18-8</b>
Contacts	<b>3#16</b>	<b>7#16</b>	<b>5#16</b>	<b>3#12</b>	<b>10#16</b>	<b>4#16</b>	<b>1#12, 7#16</b>
Service Rating	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>B, C, F, G=A; all others=INST.</b>	<b>D</b>	<b>A</b>
Insert Arrangement	<b>18-10</b>	<b>18-11</b>	<b>18-12</b>	<b>18-16</b>	<b>18-19</b>	<b>20-4</b>	<b>20-7</b>
Contacts	<b>4#12</b>	<b>5#12</b>	<b>6#16</b>	<b>1#12</b>	<b>10#16</b>	<b>4#12</b>	<b>8#16</b>
Service Rating	<b>A</b>	<b>A</b>	<b>A</b>	<b>C</b>	<b>A</b>	<b>D</b>	<b>A, B, H, G=D; C,D,E,F=A</b>
Insert Arrangement	<b>20-15</b>	<b>20-16</b>	<b>20-27</b>	<b>20-29</b>	<b>22-14</b>	<b>22-19</b>	<b>24-2</b>
Contacts	<b>7#12</b>	<b>7#16, 2#12</b>	<b>14#16</b>	<b>17#16</b>	<b>19#16</b>	<b>14#16</b>	<b>7#12</b>
Service Rating	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>D</b>
Insert Arrangement	<b>24-5</b>	<b>24-7</b>	<b>24-11</b>	<b>24-28</b>	<b>28-10</b>	<b>28-11</b>	
Contacts	<b>16#16</b>	<b>2#12, 14#16</b>	<b>3#8, 6#12</b>	<b>24#16</b>	<b>3#12, 2#8, 2#4</b>	<b>4#12, 18#16</b>	
Service Rating	<b>A</b>	<b>A</b>	<b>A</b>	<b>INST.</b>	<b>G=D; all others=A</b>	<b>A</b>	
Insert Arrangement	<b>28-15</b>	<b>28-16</b>	<b>28-21</b>	<b>32-8</b>	<b>32-414</b>		
Contacts	<b>35#16</b>	<b>20#16</b>	<b>37#16</b>	<b>6#12, 24#16</b>	<b>52#16</b>		
Service Rating	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>		

Circular Connectors Amphenol