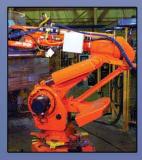
# Amphenol<sup>®</sup> 97 Series Standard Cylindrical Connector

#### 12-022-15

# MIL-5015 Style Connectors widely used for:

- Factory Automation, Robotics
- Machine Tool, Instrumentation
- Welding Equipment
- Medical Equipment





Amphenol<sup>®</sup> 97 Series Connectors are UL recognized and CSA recognized.











# Amphenol

## **Amphenol**<sup>®</sup> **97 Series Connectors** provide the interconnection solution for low cost, general duty applications

Amphenol offers the 97 Series Connector Family -A general duty standard cylindrical connector, MIL-5015 style.

The 97 Series is a widely used connector series for the automotive, robotics, machine tool and welding industries, as well as numerous other commercial applications from heavy equipment to ECG monitoring cables.

Shell components are fabricated from high grade aluminum alloy to provide strength and environmental protection. This family of connectors offers a wide variety of shell styles, contact patterns and accessory options.

The Amphenol<sup>®</sup> 97 Series design features and benefits:

- Low cost, general duty non-environmental
- Environmental capability with the 417 suffix plus 9767 cable clamp (see page 34)
- Solder or crimp termination
- UL Recognized, CSA Recognized
- Wide selection of shell styles and insert patterns
- Wide selection of connector finishes cadmium or non-cadmium (environmentally friendly zinc alloy)
- Threaded coupling, hard dielectric inserts
- Solid or split shell construction
- Accessories for both individual wire seal and jacketed cable

#### **RoHS COMPLIANT PRODUCT AVAILABLE** – Consult Amphenol Industrial Operations.





## **Amphenol<sup>®</sup> 97 Series Connectors** with solder contacts



#### DESIGN CHARACTERISTICS

- Medium to heavy weight cylindrical
- Durable, field-proven design
- Single key/keyway polarization
- Threaded coupling, hard dielectric inserts
- Non-rotating contacts
- Operating temperatures from –55°C to +125°C
- Cost effective
- Intermateable and intermountable with existing 97 Series and MIL-5015 connectors
- Underwriters Laboratories approved recognition File E115497
- Canadian Standards Association Certification File LR69183

#### CUSTOMER OPTIONS

- Solid or split shell construction
- Six shell styles
- 128 contact arrangements, from 1 to 52 circuits
- Alternate insert positioning
- · High temperature and potting constructions
- Special plating finishes including black and green zinc alloy
- Optional gold plating on MS contacts
- Thermocouple arrangements available

Connector components are fabricated from high grade aluminum alloy, with a conductive cadmium plate finish and an olive drab chromate after-treatment. Some cable clamps are a zinc alloy with an olive drab/green chromate finish. See how to order page 19 for other finish variations.

Contacts are silver plated with pre-tinned solder cups. Optional gold over silver plating is also available. Inserts for solder style contacts are diallyl-phthalate.

Users should be aware that classes "A" and "B" of MIL-5015 have been cancelled, and these products are no longer qualified.

# **97 series solder type** insert availability

Inches         random         Rating         0         4         8         12         16           8S-1+         1         1/16         1.57         INST.         I         I         1           10SL-3         3         1/16         1.57         A         I         I         3           10SL-4         2         1/16         1.57         A         I         I         2           12SL-844.*         4         1/16         1.57         A         I         I         2           12S-6.*         2         1/16         1.57         A         I         I         2         1           14S-17         3         1/16         1.57         A         I         I         3         3           14S-4         1         1/8         3.18         D         I         I         1 <th>Insert Number</th> <th>Total</th> <th></th> <th>anical cing</th> <th>Service</th> <th colspan="3">Contact Size</th> <th></th>	Insert Number	Total		anical cing	Service	Contact Size				
10SL-3       3       1/16       1.57       A       <		Contacts	Inches	mm	Rating	0	4	8	12	16
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	8S-1+	1	1/16	1.57	INST.					1
12SL-844*       4       1/16       1.57       A       I       I       4         12S-3       2       1/16       1.57       A       I       1         12S-6+*       2       1/16       1.57       A       I       1         12S-6+*       2       1/16       1.57       A       I       1         12S-6+*       2       1/16       1.57       A       I       3         14S-2       4       INST.       I       I       3         14S-2       4       INST.       I       I       3         14S-2       4       INST.       I       I       1       1         14S-4       1       1/6       1.57       A       I       1       1         14S-5       5       INST.       I       I       1       2       1       1       1       2         14S-6       6       INST.       A       I       I       2       1       1       2       1       1       1       2       1       1       1       2       1       1       1       2       1       1       1       2       1 <t< td=""><td>10SL-3</td><td>3</td><td>1/16</td><td>1.57</td><td>А</td><td></td><td></td><td></td><td></td><td>3</td></t<>	10SL-3	3	1/16	1.57	А					3
128-3       2       1/16       1.57       A       I       I       2         12-5+       1       1/8       3.18       D       I       1       I         12S-6+*       2       1/16       1.57       I       I       I       I       I         14S-1†       3       1/16       1.57       A       I       I       3       3         14S-2       4       INST.       I       I       3	10SL-4	2	1/16	1.57	Α					2
12-5+       1       1/8       3.18       D       I       1         12S-6+*       2       1/16       1.57       A       I       1       2       Thermouple         14S-1†       3       1/16       1.57       A       I       I       3         14S-2       4       INST.       I       I       4         14S-4+1       1       1/8       3.18       D       I       I       4         14S-5       5       INST.       I       I       5       5       INST.       I       I       6         14S-6       6       INST.       I       I       2       1       6       1	12SL-844+*	4	1/16	1.57	Α					4
12         1         1         1         2         1         1         2         1 <th1< th="">         1         1         1</th1<>	12S-3	2	1/16	1.57	А					2
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	12-5+	1	1/8	3.18	D				1	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	12S-6+*	2	1/16	1.57						Thermo-
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	14S-1†	3	1/16	1.57	Α					3
14S-5       5       INST       INST       INST       5         14S-6       6       INST.       6         14S-7       3       1/16       1.57       A       2         16S-1       7       1/16       1.57       A       2       2         16S-1       7       1/16       1.57       A       2       2         16S-4       2       1/8       3.18       D       2       2         16S-5       3       1/16       1.57       A       3       3         16S-6+1       3       1/16       1.57       A       1       2       2         16S-8       5       1/16       1.57       A       1       2       2       2         16-10       3       1/16       1.57       A       2       2       2       2         16-110       3       1/16       1.57       A       2       2       2       2         16-12       1       1/16       1.57       A       2       2       2       2       2       2       2       2       2       1       1       1       1       2       1 <td< td=""><td>14S-2</td><td>4</td><td></td><td></td><td>INST.</td><td></td><td></td><td></td><td></td><td>4</td></td<>	14S-2	4			INST.					4
14S-6       6       INST.       0       6         14S-7       3       1/16       1.57       A       0       3         14S-9†       2       1/16       1.57       A       0       2         16S-1       7       1/16       1.57       A       0       0       2         16S-4       2       1/8       3.18       D       0       0       2         16S-5       3       1/16       1.57       A       0       0       3         16S-6+1       3       1/16       1.57       A       0       0       3         16-7       3       1/16       1.57       A       0       1       2         16S-8       5       1/16       1.57       A       0       2       2         16-10       3       1/16       1.57       A       0       2       2         16-11       2       1/16       1.57       A       0       2       2         16-12       1       1/16       1.57       A       1       0       4         18-1       10       1/16       1.57       A       1       2	14S-4+†	1	1/8	3.18	D					1
14S-7       3       1/16       1.57       A       I       3         14S-9†       2       1/16       1.57       A       I       2         16S-1       7       1/16       1.57       A       I       2         16S-4       2       1/8       3.18       D       I       2         16S-5       3       1/16       1.57       A       I       3         16S-6+1       3       1/16       1.57       A       I       1       2         16S-8       5       1/16       1.57       A       I       1       2       2         16-7       3       1/16       1.57       A       I       1       2       2         16-8       5       1/16       1.57       A       I       2       2       2         16-10       3       1/16       1.57       A       I       2       2       2         16-12       1       1/16       1.57       A       I       2       2       2         16-13       2       1/16       1.57       A       I       2       2       2         18-1       <	14S-5	5			INST					5
14S-9†       2       1/16       1.57       A       Image: Constraint of the stress of the str	14S-6	6			INST.				1	6
16S.1       7       1/16       1.57       A       Image: constraint of the state of	14S-7	3	1/16	1.57	Α					3
16S-4+       2       1/8       3.18       D       I       2         16S-5       3       1/16       1.57       A       I       3         16S-6+†       3       1/16       1.57       A       I       3         16S-6+†       3       1/16       1.57       A       I       2         16S-8       5       1/16       1.57       A       I       2       2         16-9       4       1/16       1.57       A       I       2       2         16-10       3       1/16       1.57       A       I       2       2         16-11+†       2       1/16       1.57       A       I       2       2         16-12       1       1/16       1.57       A       I       2       2         16-13       2       1/16       1.57       A       I       2       2         18-1       10       1/16       1.57       A       I       2       2       1         18-3†       2       1/8       3.18       D       I       2       1       1       7         18-4       4       1/8	14S-9†	2	1/16	1.57	Α					2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	16S-1	7	1/16	1.57	Α					7
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	16S-4+	2	1/8	3.18	D					2
16-7       3       1/16       1.57       A       1       2         16S-8       5       1/16       1.57       A       2       2         16-9       4       1/16       1.57       A       2       2         16-10       3       1/16       1.57       A       1       2       2         16-12       1       1/16       1.57       A       1       2       2         16-13       2       1/16       1.57       A       1       2       2         18-1       10       1/16       1.57       A       2       2       2         18-4       4       1/8       3.18       D       2       2       1         18-5       3       1/8       3.18       D       2       5       1         18-9+       7       INST.       2       5       1       1       7 <t< td=""><td>16S-5</td><td>3</td><td>1/16</td><td>1.57</td><td>Α</td><td></td><td></td><td></td><td></td><td>3</td></t<>	16S-5	3	1/16	1.57	Α					3
16S-8       5       1/16       1.57       A       Image: constraint of the system of the syst	16S-6+†	3	1/16	1.57	Α					3
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	16-7	3	1/16	1.57	Α			1		2
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	16S-8	5	1/16	1.57	А					5
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	16-9	4	1/16	1.57	Α				2	2
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	16-10	3	1/16	1.57	Α				3	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	16-11+†	2	1/16	1.57	Α				2	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	16-12	1	1/16	1.57	Α		1			
18-1       10       1/16       1.57       INST.       6         18-3†       2       1/8       3.18       D       2       6         18-4       4       1/8       3.18       D       2       4         18-5+       3       1/8       3.18       D       2       1         18-8       8       1/16       1.57       A       1       7         18-9+       7       INST.       2       5       5         18-10†       4       1/16       1.57       A       4       4         18-11       5       1/16       1.57       A       4       4         18-12†       6       1.16       1.57       A       5       6         18-13       4       1/16       1.57       A       1       3       6         18-13       4       1/16       1.57       A       1       1       1         18-16       1       5/16       7.92       C       1       1       1         18-20       5       1/16       1.57       A       5       5       1       10       10       10       10       10 </td <td>16-13</td> <td>2</td> <td>1/16</td> <td>1.57</td> <td>A</td> <td></td> <td></td> <td></td> <td>Thermo-</td> <td></td>	16-13	2	1/16	1.57	A				Thermo-	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	18-1	10	1/16	1.57						
18-4       4       1/8       3.18       D       4       4         18-5+       3       1/8       3.18       D       2       1         18-5+       3       1/8       3.18       D       2       1         18-8       8       1/16       1.57       A       1       7         18-9+       7       INST.       2       5         18-10†       4       1/16       1.57       A       4       4         18-11       5       1/16       1.57       A       4       4         18-12†       6       1.16       1.57       A       5       6         18-12†       6       1.16       1.57       A       1       3       1         18-13       4       1/16       1.57       A       1       3       1         18-16       1       5/16       7.92       C       1       1       1         18-19†       10       1/16       1.57       A       1       3       1         18-20       5       1/16       1.57       A       1       3       3       3         18-22†       3<	18-3†	2	1/8	3.18					2	-
18-5+       3       1/8       3.18       D       2       1         18-5+       3       1/6       1.57       A       1       7         18-9+       7       INST.       2       5         18-10†       4       1/16       1.57       A       4       4         18-11       5       1/16       1.57       A       4       4         18-11       5       1/16       1.57       A       5       5         18-12†       6       1.16       1.57       A       1       3         18-12†       6       1.16       1.57       A       1       3         18-13       4       1/16       1.57       A       1       3         18-16       1       5/16       7.92       C       1       1         18-19†       10       1/16       1.57       A       10       10         18-20       5       1/16       1.57       A       5       5         18-22†       3       1/8       3.18       D       3       3         18-29+†       5       1/16       1.57       A       5       5	-								_	4
18-8       8       1/16       1.57       A       1       7         18-9+       7       INST.       2       5         18-10†       4       1/16       1.57       A       4         18-11       5       1/16       1.57       A       4         18-11       5       1/16       1.57       A       4         18-12†       6       1.16       1.57       A       5         18-13       4       1/16       1.57       A       1       3         18-16       1       5/16       7.92       C       1       1         18-19†       10       1/16       1.57       A       10       1         18-20       5       1/16       1.57       A       5       5         18-20       5       1/16       1.57       A       5       5         18-22†       3       1/8       3.18       D       3       3         18-29+†       5       1/16       1.57       A       5       5         18-22+       3       1/8       3.18       D       3       3         18-29+†       5	-						1		2	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							1			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-							1		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			1/16	1.57	-			1		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-	-								
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								1	-	6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								1	3	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-							<u> </u>		
18-20       5       1/16       1.57       A        5         18-22†       3       1/8       3.18       D        3         18-29+†       5       1/16       1.57       A        5         18-29+†       5       1/16       1.57       A        5         18-420*       1               18-420*       1									· ·	10
18-22†       3       1/8       3.18       D       Image: Second se								1		
18-29+†         5         1/16         1.57         A         5         5           18-420*         1	-									
18-420* 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										
									Hi-Volt-	
	20-3†	3	1/8	3.18	D				-	

Insert Number	Total Contacts		Spacing		Contac	act Size			
-		Inches	mm	Rating	0	4	8	12	16
20-4	4	1/8	3.18	D				4	
20-6†	3	1/8	3.18	D					3
20-7	8	1/8	3.18	D					4
20-7	0	1/16	1.57	Α					4
20-8	6			INST.			2		4
20-11†	13			INST.					13
20-14	5	1/16	1.57	Α			2	3	
20-15	7	1/16	1.57	Α				7	
20-16	9	1/16	1.57	Α				2	7
20-17	6	1/16	1.57	Α				5	1
20-18	9	1/16	1.57	Α				3	6
20-19†	3	1/16	1.57	Α			3		
20-21	9	1/16	1.57	Α				1	8
20-23	2	1/16	1.57	Α			2		
20-24	4	1/16	1.57	Α			2		2
20-27	14	1/16	1.57	Α					14
20-29	17	1/16	1.57	Α					17
20-33	11	1/16	1.57	Α					11
22-1†	2	1/8	3.18	D			2		
22-2	3	1/8	3.18	D			3		
22-4†	4	1/16	1.57	Α			2	2	
22-5	6	1/8	3.18	D				2	4
22-8†	2	3/16	4.75	E				2	
22-9	3	3/16	4.75	E				3	
22-10	4	3/16	4.75	E					4
22-11	2	1/4	6.35	В					2
22-12	5	1/8	3.18	D			2		3
00 40±	5	1/8	3.18	D					1
22-13†		1/16	1.57	Α				4	
22-14	19	1/16	1.57	Α					19
22.15	6	3/16	4.75	Е					1
22-15		1/16	1.57	Α				5	
22-16†	9	1/16	1.57	Α				3	6
22-18	8	1/8	3.18	D					5
		1/16	1.57	Α					3
22-19	14	1/16	1.57	Α					14
22-20†	9	1/16	1.57	А					9
22-22	4	1/16	1.57	Α			4		
22-23	8	1/8	3.18	D				1	
		1/16	1.57	Α				7	

Not all insert arrangements are currently available for environmental individual wire seal. Consult Amphenol, Sidney, NY for availability.

† Inactive for new military design, but available for replacement or for non-military purposes.

\* "MS" number not assigned. Use "97" prefix in place of "MS" in completing catalog number. See how to order, page 19.

\*\* Hi-Voltage = 17KVAC/24KVDC

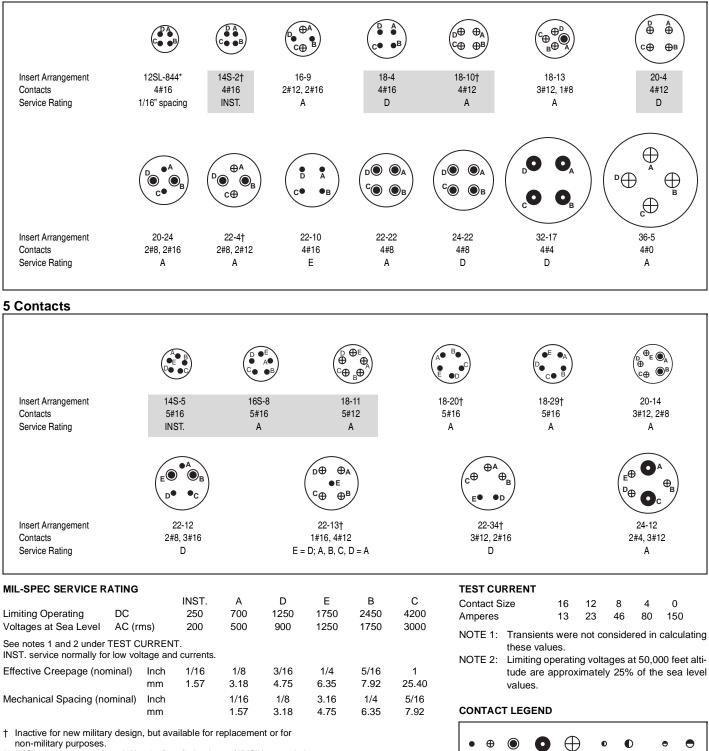
+ Molded-in pin (MIP) insert requires (910) deviation. See how to order, pg. 19.

# **97 series solder type** insert arrangements, cont.

#### Front view of pin insert or rear of socket insert illustrated.

Items highlighted are most popular and most readily available.

#### 4 Contacts



"MS" number not assigned. Use "97" prefix in place of "MS" in completing catalog number. See how to order, page 19.

16 12 8

16 12

IRON

4

0

16 12

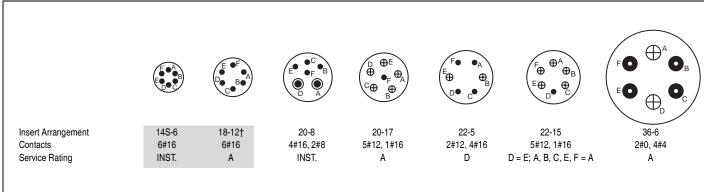
CONSTANTAN

# **97 series solder type** insert arrangements, cont.

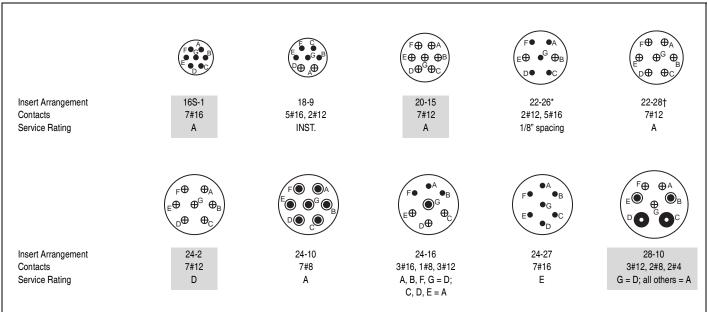
#### Front view of pin insert or rear of socket insert illustrated.

Items highlighted are most popular and most readily available.

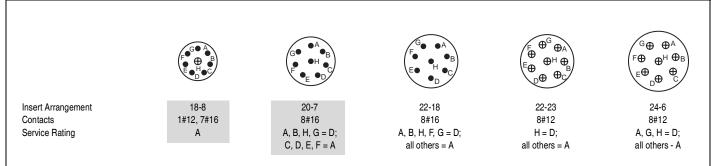
#### 6 Contacts



#### 7 Contacts

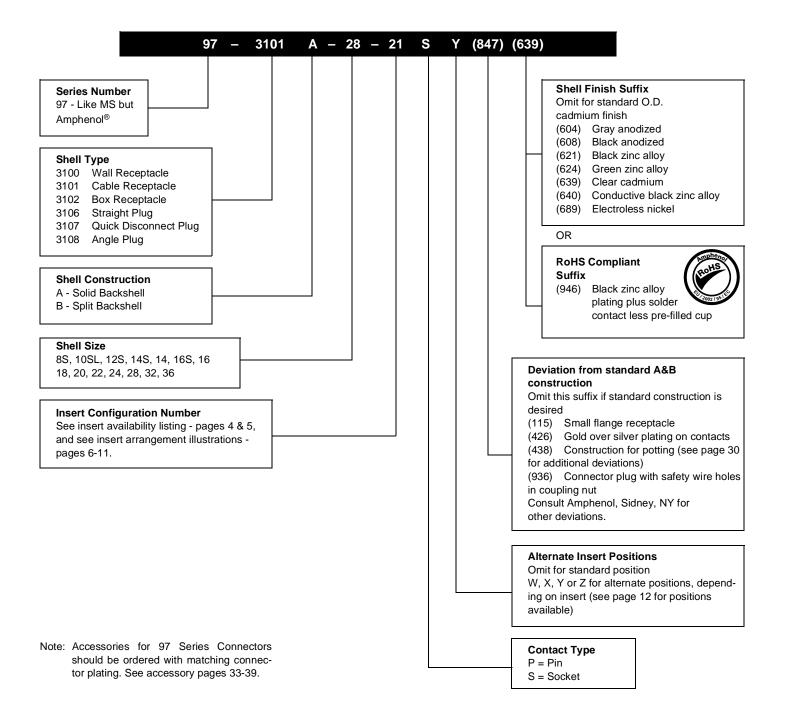


#### 8 Contacts



# **97 series solder type** how to order

Example of part number for solder type connectors is given below.



## Amphenol Industrial 97 Series

### 97 Series Industrial Cylindrical Connectors

Amphenol's 97 Series is the lowest cost, cylindrical interconnect solution utilizing the proven 5015 family connector style. 97 Series offers: six shell options, solid and split, 128 different contact arrangements, 1 to 52 circuits, one of the largest selections of insert patterns on the connector market, crimp, solder, thermocouple and PCB (100 suffix) contacts, all which makes 97 Series one of the most versatile of Amphenol's connector with utilization in many markets.

### **Applications**

<ul> <li>Machine Tool/Factory Automation         <ul> <li>Power and Cutting Tools</li> <li>Instrumentation Distribution</li> <li>Control Panels</li> <li>CNC Milling Machines</li> </ul> </li> <li>Welding Equipment         <ul> <li>Station, Robotic and Portable</li> <li>Factory Construction</li> <li>Garage Welders</li> <li>Auxiliary Equipment</li> <li>Spool Guns</li> <li>Wire Feeders</li> </ul> </li> <li>Motors         <ul> <li>Servo Motors</li> <li>Motion Control</li> <li>Power Motors</li> <li>Stepper Motors</li> <li>Encoders</li> </ul> </li> <li>Mining Equipment         <ul> <li>Seismic Sensing Equipment</li> <li>Seismic Geophones</li> </ul> </li> <li>Robotics         <ul> <li>Power and Multi Axis Control Equipment</li> <li>Factory Automation</li> </ul> </li> </ul>	<ul> <li>Semiconductor Equipment         <ul> <li>Automated Assembly and Test Equipment</li> <li>Equipment Specifically for CEM Assembly</li> <li>Semiconductor Test Equipment Mfg'ers</li> </ul> </li> <li>Off Road Vehicles         <ul> <li>Concrete Road Building</li> <li>Precision Farm Monitoring Equipment</li> <li>GPS in Heavy Duty Trucks</li> </ul> </li> <li>Test &amp; Measurement         <ul> <li>Temperature Chambers</li> <li>Vibration Controllers and Shakers</li> <li>RF Amplifiers</li> <li>Power Supplies</li> </ul> </li> <li>Medical Equipment         <ul> <li>Medical X-Ray/Ultrasound Equipment</li> <li>Blood Analyses</li> <li>Medical Coaches/Vehicles</li> <li>ECG Monitoring Cables</li> </ul> </li> <li>Motion Sensors         <ul> <li>Bar Code Scanners</li> <li>Flame Sensors</li> <li>Temperature Controls</li> </ul> </li> </ul>
Key Benefits	
<ul> <li>Keyway Polarization         <ul> <li>Prevents incorrect mating</li> </ul> </li> <li>Inserts easily removed from shell         <ul> <li>Minimizes repair time thus saving money</li> </ul> </li> <li>Non-Rotating Contacts             <ul> <li>Increases productivity by ease of soldering</li> </ul> </li> <li>Solder, Crimp, Thermocouple and PCB contacts                <ul> <li>Provides wide range of connector solutions</li> </ul> </li> <li>Multiple Wire Gauges: 0 to 30 AWG                     <ul> <li>Flexibility in Design</li> </ul> </li> <li>Pre-filled Solder Cup                    <ul> <li>Increase productivity by reducing preparation work.</li> </ul> </li> </ul>	<ul> <li>Multiple finishes including RoHS compliant         <ul> <li>O.D. Cadmium, Black Zinc Cobalt, Clear Cadmium, Electroless Nickel and more offer large variety of environmental finishes for any application.</li> </ul> </li> <li>Alternative Insert Rotations         <ul> <li>Increase design options within shell size.</li> </ul> </li> <li>Hard Plastic (Diallyl-Phthalate) Inserts         <ul> <li>Resists breakage and extends connector life.</li> <li>Many Connector Accessories             <ul> <li>Cable clamps</li> <li>Gaskets and Protection Caps</li> <li>Cap and Chain Assemblies</li> </ul> </li> </ul></li></ul>

### **Electrical Features**

Current Rating13 to 150 AmperageOperating Temperature-55°C to +125°CVoltage Rating200 VAC to 3000 VAC250 DAC to 4200 VDC

Contact Size 30 AV UL and CSA Approval E115 Durability 500 r 10 oc

30 AWG to 0 AWG E115497 & LR69183 500 mating cycles 10,000 cycles with **Radsok**® contacts

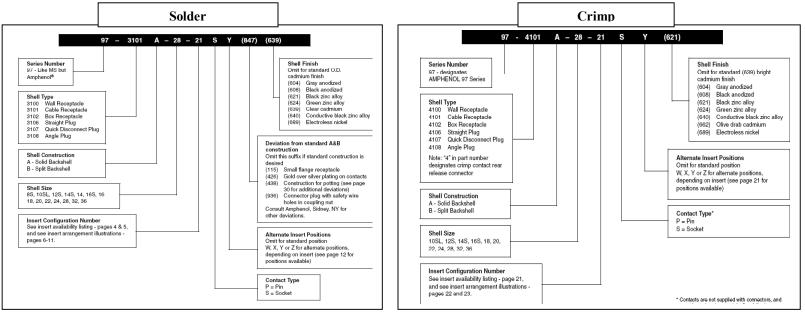


### 97 Series RoHS Compliant

Amphenol Industrial is RoHS compliant - 1 year before the European Union directive! Existing products that do not meet these requirements can easily be changed to meet these environmental guidelines through simple modifications.

## How to build a part number

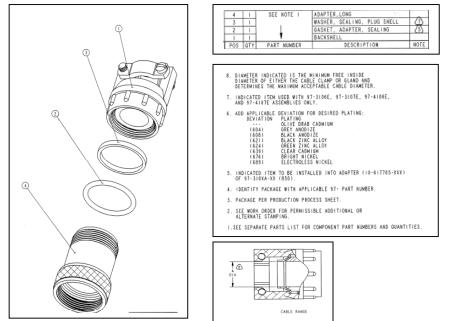
ROHS Compliant Mod Code					
(431) Solder Contacts les	ss pre filled solder cup				
(621) Black Zinc Cobalt of	connector plating				
(689) Electroless Nickel	connector plating				
Part Number Identification					
Non-ROHS Solder P/N	97-3106A14S-6P				
ROHS Solder P/N	97-3106A14S-6P (431)(621)				
Non-ROHS Crimp P/N	Non-ROHS Crimp P/N 97-4106A14S-6P				
ROHS Crimp P/N 97-4106A14S-6P (621)					



### Breaking 97 Series part numbers down to component level

Example.				
	Top Level Part	Shell	Insert	
Solder P/N	97-3106A-18-1S becomes	97-3106A-18(850)	97-18-1S	
	97-3101A-28-21SY(639)	97-3101A-28(639)	97-28-21S	
Crimp Part	97-4106A-20-27P(639)	97-3106A-20(639)(850)	97-420-27P	
-	97-4101A-28-21SY(621)	97-3101A-28(621)(850)	97-428-21S	

## 97 Series Environmental Adapter Kit 97-283-XX



		A DIA		
Amphenol Part Number	Size	Free	Closed	
97-283-10SL (XXX)	10SL	.302	.094	
97-283- 12 (XXX)	12S & 12	.302	.094	
97-283- 14 (XXX)	14S & 14	.428	.230	
97-283- 16 (XXX)	16S & 16	.515	.316	
97-283- 18 (XXX)	18	.614	.378	
97-283- 28 (XXX)	20	.738	.445	
97-283- 22 (XXX)	22	.738	.445	
97-283- 28 (XXX)	24	.926	.611	
97-283- 32 (XXX)	32	1.20	.922	
97-283- 36 (XXX)	36	1.363	.922	

Assembly Instruction Sheet for Environmental 97E Connectors is L-2089

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