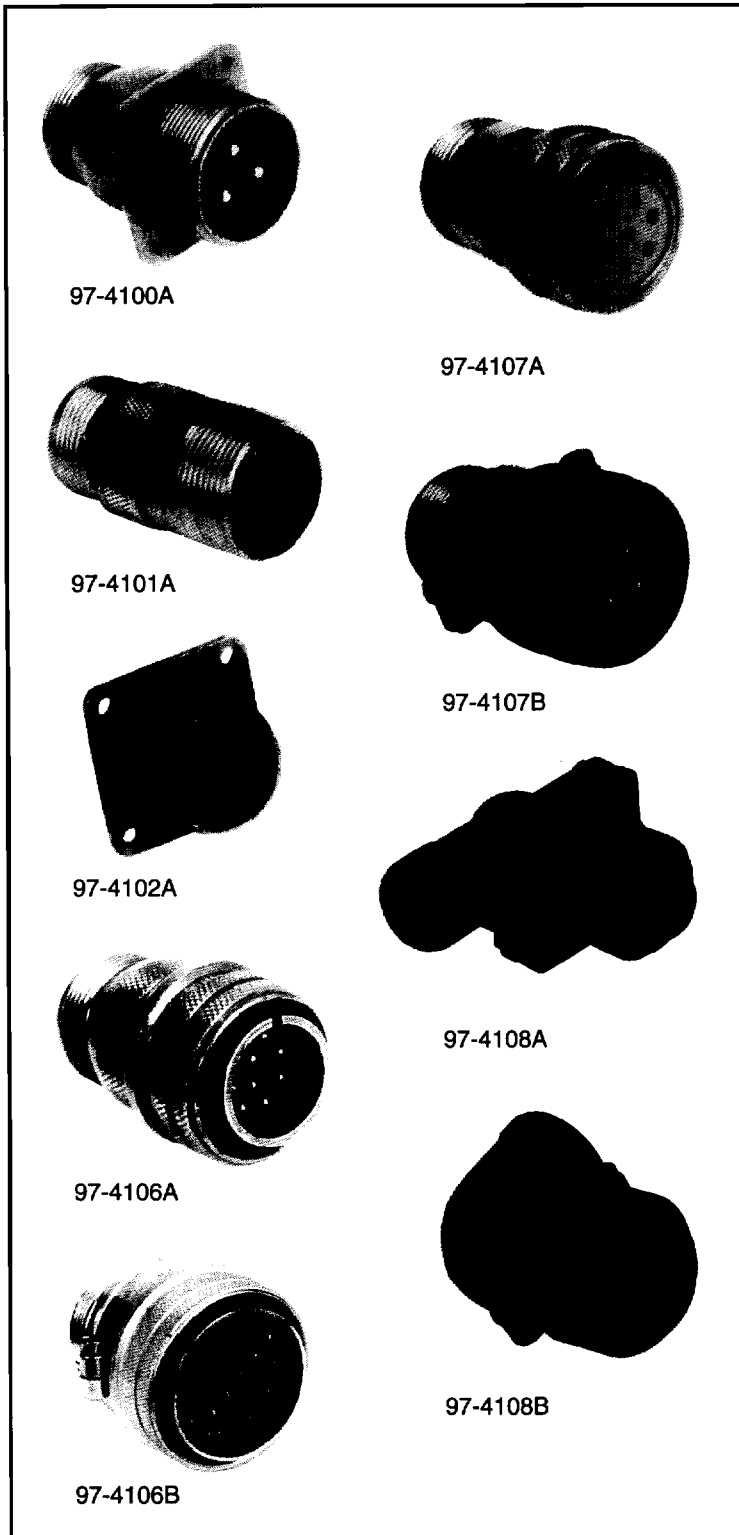


Amphenol® 97 Series Connectors with rear release crimp contacts



DESIGN CHARACTERISTICS

- Rugged metal shell
- Conductive finish
- Stamped & formed crimp contacts
- Closed entry socket contacts
- Plastic retention
- Utilizes standard 97 Series hardware
- Intermateable and intermountable with existing 97 Series and MIL-C-5015 connectors
- Underwriters Laboratories approved recognition File E115497
- Canadian Standards Association Certification File LR69183

CUSTOMER OPTIONS

- Positive self-centering of contacts; pins bent up to 20° will pick up
- Reduced user cost due to high speed termination
- Less equipment down-time due to fatigue failure at wire contact junction or handling damage
- Greater contact to contact insulation, lighter weight, higher reliability
- No costly re-design or rework necessary on existing equipment
- Complete flexibility through multi-source product availability
- 97E (environmental) crimp available - applications for jacketed cable only (290 suffix)

The Amphenol 97-410X connector design incorporates Poke Home® Rear Release contacts. The 97 Series Rear Release line is intermateable and intermountable with existing 97 Series and MIL-C-5015 type shell styles in both plugs and receptacles. The connectors utilize 97 Series bright cadmium plated shells and standard insert configurations.

The connector is designed to be used with stamped and formed type crimp contacts. Contact design (size 16 only) incorporates insulation crimp support for greater strength at wire termination end. Contacts are available on reel assemblies for use with the high speed Amphenol stripper crimper capable of crimping 1500 contacts per hour. Hand crimp tools and bulk packaged contacts are also available.

Standard hardware available for the 97 Series connector can be used with the 97 Series crimp contact rear release line. Accessories should be ordered with the appropriate deviation number to match the bright cadmium connector finish. See how to order, page 29, for 97 Series connectors with crimp contacts. See how to order, page 4, for 97E environmental crimp type connectors for jacketed cable applications.

97 series crimp type specifications, insert availability, alternate insert positioning

Specifications

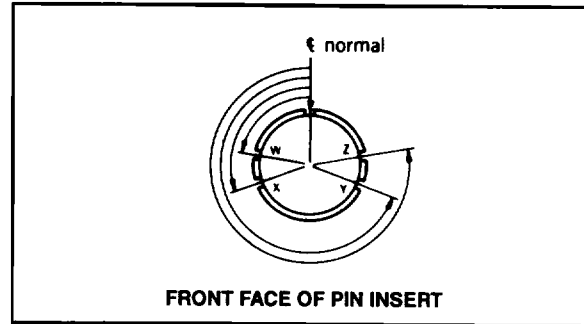
Standard shell finish - clear chromate over cadmium plate (optional plating available, see how to order page 29).

Inserts - molded of a 94V-O Underwriters Laboratory rated material.

Contacts - copper alloy formed, silver plated (gold plating is also available, see how to order page 27).

Wire sizes - 12 AWG through 30 AWG.

All constructions perform satisfactorily from -55°C to +125°C (-67°F to +257°F).



Insert Availability

Insert Number	Total Contacts	Mechanical Spacing		Service Rating	Contact Size	
		Inches	mm		12	16
10SL-3	3	1/16	1.57	A		3
10SL-4	2	1/16	1.57	A		2
12S-3	2	1/16	1.57	A		2
14S-1	3	1/16	1.57	A		3
14S-2	4			INST.		4
14S-5	5			INST.		5
14S-7	3	1/16	1.57	A		3
16S-1	7	1/16	1.57	A		7
16S-8	5	1/16	1.57	A		5
18-1	10	1/16	1.57	A		4
				INST.		6
18-4	4	1/8	3.18	D		4
18-11	5	1/16	1.57	A	5	
18-12	6	1/16	1.57	A		6
18-19	10	1/16	1.57	A		10
18-20	5	1/16	1.57	A		5
20-4	4	1/8	3.18	D	4	
20-7	8	1/8	3.18	D		4
		1/16	1.57	A		4
20-27	14	1/16	1.57	A		14
20-29	17	1/16	1.57	A		17
22-14	19	1/16	1.57	A		19
24-2	7	1/8	3.18	D	7	
28-9	12	1/8	3.18	D	6	6
28-11	22	1/16	1.57	A	4	18
28-12	26	1/16	1.57	A		26
28-20	14	1/16	1.57	A	10	4
28-21	37	1/16	1.57	A		37
32-414	52	1/16	1.57	A		52
32-8	30	1/16	1.57	A	6	24
36-10	48	1/16	1.57	A		48

Alternate Insert Positioning



Insert Arrangement	Degrees			
	W	X	Y	Z
12S-3	70	145	215	290
14S-2	-	120	240	-
14S-5	-	110	-	-
14S-7	90	180	270	-
16S-1	80	-	-	280
16S-8	-	170	265	-
18-1	70	145	215	290
18-4	35	110	250	325
18-11	-	170	265	-
18-12	80	-	-	280
18-19	-	120	240	-
18-20	90	180	270	-
20-4	45	110	250	-
20-7	80	110	250	280
20-27	35	110	250	325
20-29	80	-	-	280
22-14	80	-	-	280
24-2	80	-	-	280
28-9	80	110	250	280
28-11	80	110	250	280
28-12	90	180	270	-
28-20	80	110	250	280
28-21	80	110	250	280
32-8	80	125	235	280
32-414*	80*	110*	250*	280*
36-10	80	125	235	280

* Rotates opposite above illustration.




97 series crimp type insert arrangements

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




2 Contacts

		
Insert Arrangement	10SL-4	12S-3
Contacts	2#16	2#16
Service Rating	A	A





3 Contacts

			
Insert Arrangement	10SL-3	14S-1	14S-7
Contacts	3#16	3#16	3#16
Service Rating	A	A	A


4 Contacts

			
Insert Arrangement	14S-2	18-4	20-4
Contacts	4#16	4#16	4#12
Service Rating	INST.	D	D



5 Contacts

				
Insert Arrangement	14S-5	16S-8	18-11	18-20
Contacts	5#16	5#16	5#12	5#16
Service Rating	INST.	A	A	A


6 Contacts

	
Insert Arrangement	18-12
Contacts	6#16
Service Rating	A



7 Contacts

		
Insert Arrangement	16S-1	24-2
Contacts	7#16	7#12
Service Rating	A	D


8 Contacts

	
Insert Arrangement	20-7
Contacts	8#16
Service Rating	A, B, H, G = D; C, D, E, F = A



10 Contacts

		
Insert Arrangement	18-1	18-19
Contacts	10#16	10#16
Service Rating	B, C, F, G = A; all others = INST.	A

12 Contacts

	
Insert Arrangement	28-9
Contacts	6#12, 6#16
Service Rating	D


14 Contacts

		
Insert Arrangement	20-27	28-20
Contacts	14#16	10#12, 4#16
Service Rating	A	A

97 series crimp type insert arrangements, cont.

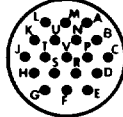
Front view of pin insert or rear of socket insert illustrated.

17 Contacts



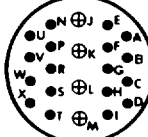
Insert Arrangement 20-29
Contacts 17#16
Service Rating A

19 Contacts



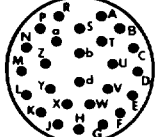
22-14
19#16
A

22 Contacts



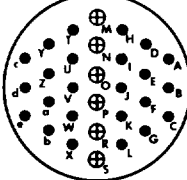
28-11
4#12, 18#16
A

26 Contacts



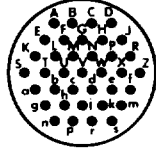
28-12
26#16
A

30 Contacts



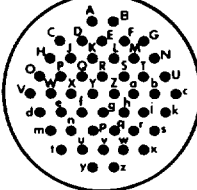
Insert Arrangement 32-8
Contacts 6#12, 24#16
Service Rating A

37 Contacts



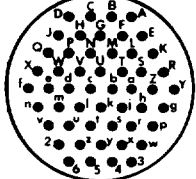
28-21
37#16
A

48 Contacts



36-10
48#16
A

52 Contacts



32-414
52#16
A

CONTACT LEGEND

●	⊕
16	12

Current Ratings

Wire Size	12	14	16	18	20	22	26	28	30
Amperes	23	17	13	10	7.5	5	2	1.5	1.0

NOTE: Design specifications subject to change.
Consult Amphenol, Sidney, NY for the latest specifications
and UL and CSA recognition.

Service Rating

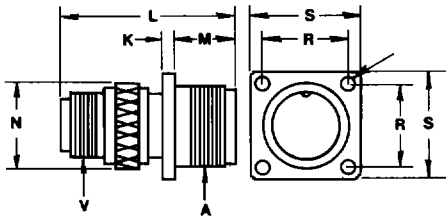
Service Rating	Recommended Operating Voltage* at Sea Level	
	DC	AC (RMS)
INST.	250	200
A	700	500
D	1250	900

* The values listed represent operating values which include a generous safety factor.

97 series crimp type receptacles

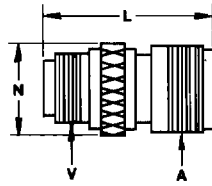
97-4100A wall mount receptacle

Solid shell construction is strong and conserves space. Includes integral polarizing key in front. Back shell is threaded for standard MS/AN fittings.



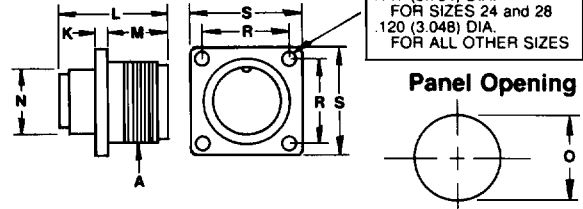
97-4101A cable receptacle

Solid shell construction is strong and conserves space. Includes integral polarizing key in front shell. Machined back shell is threaded for standard MS/AN fittings. Can be unscrewed for inspection or soldering



97-4102A box receptacle

Solid shell designed for open wiring. Mounts directly on chassis, equipment or panel. Includes internal polarized key in front shell.



Mounting Holes
 .173 (4.394) DIA.
 FOR SIZES 32 AND 36
 .147 (3.734) DIA.
 FOR SIZES 24 and 28
 .120 (3.048) DIA.
 FOR ALL OTHER SIZES

97-4100A and 97-4101A

Connector Size	A Coupling Thread	K Ref.		L Max.		M Ref.		N Ref.		O Ref.		R Ref.		S Ref.		V Fitting Threads
		Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	
10SL	5/8-24	5/64	1.98	1-9/32	32.53	9/16	14.27	3/4	19.05	.812	20.62	23/32	18.24	1	25.40	5/8-24
12S	3/4-20	5/64	1.98	1-15/32	37.29	9/16	14.27	25/32	19.84	.812	20.62	13/16	20.62	1-3/32	27.76	5/8-24
14S	7/8-20	5/64	1.98	1-15/32	37.39	9/16	14.27	7/8	22.23	.938	23.83	29/32	23.01	1-3/16	30.15	3/4-20
16S	1 -20	5/64	1.98	1-15/32	37.39	9/16	14.27	1	25.40	1.062	26.97	31/32	24.59	1-9/32	32.54	7/8-20
18	1-1/8-18	1/8	3.18	1-63/64	50.24	3/4	19.05	1-1/8	28.58	1.188	30.18	1-1/16	26.97	1-3/8	34.93	1 -20
20	1-1/4-18	1/8	3.18	1-57/64	47.85	3/4	19.05	1-1/4	31.75	1.312	33.32	1-5/32	29.36	1-1/2	38.10	1-3/16-18
22	1-3/8-18	1/8	3.18	1-63/64	50.24	3/4	19.05	1-3/8	34.93	1.438	36.53	1-1/4	31.75	1-5/8	39.67	1-3/16-18
24	1-1/2-18	1/8	3.18	2-1/4	57.15	13/16	20.62	1-1/2	38.10	1.562	36.67	1-3/8	34.43	1-3/4	44.45	1-7/16-18
28	1-3/4-18	1/8	3.18	2-1/4	57.15	13/16	20.62	1-3/4	44.45	1.812	46.02	1-9/16	39.67	2	50.80	1-7/16-18
32	2 -18	1/8	3.18	2-3/8	60.33	7/8	22.23	2-1/32	51.59	2.062	52.37	1-3/4	44.45	2-1/4	57.15	1-3/4-18
36	2-1/4-16	1/8	3.18	2-3/8	60.33	7/8	22.23	2-1/4	57.15	2.312	58.72	1-15/16	49.20	2-1/2	63.50	2 -18

97-4102A

Connector Size	A Coupling Thread	K Ref.		L Max.		M Ref.		N Ref.		O Ref.		R Ref.		S Ref.	
		Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
10SL	5/8-24	5/64	1.98	61.64	24.21	35/64	13.87	11/16	17.48	.812	20.62	23/32	18.24	1	25.40
12S	3/4-20	5/64	1.98	31/32	24.61	9/16	14.27	11/16	17.45	.812	20.62	13/16	20.62	1-3/32	27.76
14S	7/8-20	5/64	1.98	61/64	24.21	9/16	14.27	3/4	19.05	.938	23.83	29/32	23.01	1-3/16	30.15
16S	1 -20	5/64	1.98	61/64	24.21	9/16	14.27	7/8	22.23	1.062	26.97	31/32	24.59	1-9/32	32.54
18	1-1/8-18	1/8	3.18	1-3/8	34.92	3/4	19.05	1	25.40	1.188	30.18	1-1/16	26.97	1-3/8	34.93
20	1-1/4-18	1/8	3.18	1-3/8	34.92	3/4	19.05	1-1/8	28.58	1.312	33.32	1-5/32	29.36	1-1/2	38.10
22	1-3/8-18	1/8	3.18	1-3/8	34.92	3/4	19.05	1-1/4	31.75	1.438	36.53	1-1/4	31.75	1-5/8	41.28
24	1-1/2-18	1/8	3.18	1-3/8	34.92	13/16	20.62	1-3/8	34.93	1.562	39.67	1-3/8	34.93	1-3/4	44.45
28	1-3/4-18	1/8	3.18	1-3/8	34.92	13/16	20.62	1-5/8	41.28	1.812	46.02	1-9/16	39.67	2	50.80
32	2 -18	1/8	3.18	1-15/32	37.31	7/8	22.23	1-29/32	48.41	2.062	52.37	1-3/4	44.45	2-1/4	57.15
36	2-1/4-18	1/8	3.18	1-15/32	37.31	7/8	22.23	2-1/8	53.98	2.312	58.72	1-15/16	49.20	2-1/2	63.50

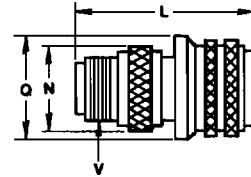
97 series crimp type plugs with solid shells

97-4106A

Connector Size	L Max.		N Ref.		Q Max.		V Fitting Threads
	Inch	mm	Inch	mm	Inch	mm	
10SL	1-3/8	34.93	3/4	19.05	7/8	22.23	5/8-24
12S	1-7/16	36.50	25/32	19.84	1	25.40	5/8-24
14S	1-15/32	37.13	7/8	22.23	1-1/8	28.58	3/4-20
16S	1-15/32	37.13	1	25.40	1-1/4	31.75	7/8-20
18	1-31/32	49.88	1-1/8	28.57	1-11/32	34.11	1 -20
20	1-7/8	47.50	1-1/4	31.75	1-15/32	37.29	1-3/16-18
22	1-31/32	49.88	1-3/8	34.93	1-19/32	40.46	1-3/16-18
24	2-1/4	57.15	1-1/2	38.10	1-23/32	43.64	1-7/16-18
28	2-1/4	57.15	1-3/4	44.45	1-31/32	49.99	1-7/16-18
32*	2-3/8	60.33	2-1/32	51.59	2-7/32	56.34	1-3/4-18
36*	2-3/8	60.33	2-1/4	57.15	2-15/32	62.69	2 -18

97-4106A straight plug

Sturdy, simple to assemble. Coupling ring machined from solid aluminum bar stock for high tensile strength. Mates with all types of MS receptacles. Front shell includes polarizing keyway. Back shell is threaded for standard MS/AN fittings.

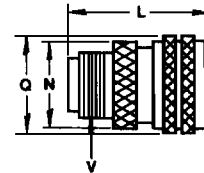


97-4107A

Connector Size	L Max.		N Ref.		Q Max.		V Fitting Threads
	Inch	mm	Inch	mm	Inch	mm	
10SL	1-3/8	34.92	3/4	19.05	7/8	22.23	5/8-24
12S	1-7/16	36.50	25/32	19.84	1	25.40	5/8-24
14S	1-15/32	37.13	7/8	22.23	1-1/8	38.58	3/4-20
16S	1-15/32	37.13	1	25.40	1-1/4	31.75	7/8-20
16	1-7/8	47.47	1	25.40	1-1/4	31.75	7/8-20
18	1-31/32	49.88	1-1/8	28.58	1-11/32	34.11	1 -20
20	1-7/8	47.50	1-1/4	31.75	1-15/32	37.29	1-3/16-18
22	1-31/32	49.88	1-3/8	34.93	1-19/32	40.46	1-3/16-18
24	2-1/4	57.15	1-1/2	38.10	1-23/32	43.64	1-7/16-18
28	2-1/4	57.15	1-3/4	44.45	1-31/32	49.99	1-7/16-18
32*	2-3/8	60.33	2-1/32	51.59	2-7/32	56.34	1-3/4-18
36*	2-3/8	60.33	2-1/4	57.15	2-15/32	62.69	2 -18

97-4107A quick-disconnect plug

For fast connect/disconnect applications. Front shell has polarizing keyway. Mates with all types of MS receptacles. Back shell is threaded for standard MS/AN fittings.

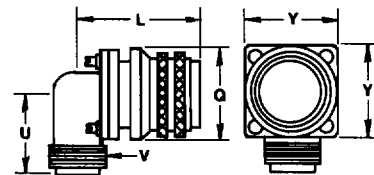


97-4108A

Connector Size	L Ref.		Q Max.		U Ref.		V Fitting Threads	Y Ref.	
	Inch	mm	Inch	mm	Inch	mm		Inch	mm
10SL	1-5/16	33.32	7/8	22.23	1	25.40	5/8-24	1-1/16	26.97
12S	1-3/8	34.93	1	25.40	1	25.40	5/8-24	1-1/16	26.97
14S	1-3/8	34.93	1-1/8	28.58	1	25.40	3/4-20	1-1/16	26.97
16S	1-1/2	38.10	1-1/4	31.75	1-1/8	28.58	7/8-20	1-5/16	33.32
18	1-15/16	49.20	1-11/32	34.11	1-1/8	28.58	1 -20	1-5/16	33.32
20	2-1/16	52.37	1-15/32	37.29	1-5/16	33.32	1-3/16-18	1-5/8	42.28
22	2-1/16	52.37	1-19/32	40.46	1-5/16	33.32	1-3/16-18	1-5/8	42.28
24	2-15/32	62.69	1-23/32	43.64	1-1/2	38.10	1-7/16-18	2	50.80
28	2-15/32	62.69	1-31/32	49.99	1-1/2	38.10	1-7/16-18	2	50.80

97-4108A angle plug

For use where space in front of panel or wall is at a premium. Swivel ring and plate combination allow cable take off at any angle relative to front shell polarizing key. Back shell is threaded for standard MS/AN fittings.



* Available for 97-4106A only.

97 series crimp type plugs with split shells

97-4106B

Connector Size	L Max.		Q Max.		V Fitting Threads	Y Ref.	
	Inch	mm	Inch	mm		Inch	mm
14S	1-11/16	42.85	1-1/8	28.58	3/4-20	1-5/32	29.36
16S	1-11/16	42.85	1-1/4	31.75	7/8-20	1-1/4	31.75
18	2-1/16	52.37	1-11/32	34.11	1 -20	1-41/64	41.66
20	2-1/8	53.98	1-15/32	37.29	1-3/16-18	1-13/16	46.02
22	2-1/8	53.98	1-19/32	40.46	1-3/16-18	1-15/16	49.20
24	2-9/32	57.94	1-23/32	43.64	1-7/16-18	2-1/16	52.37
28	2-9/32	57.94	1-31/32	49.99	1-7/16-18	2-5/16	58.72
32	2-5/16	58.72	2-7/32	56.34	1-3/4-18	2-19/32	65.86
36	2-11/32	59.51	2-15/32	62.69	2 -18	2-27/32	72.21

97-4107B

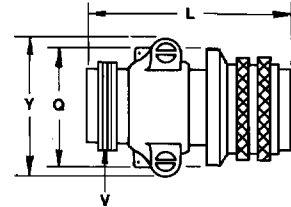
Connector Size	L Max.		Q Max.		V Fitting Threads	Y Ref.	
	Inch	mm	Inch	mm		Inch	mm
14S	1-11/16	42.85	1-1/8	28.58	3/4-20	1-5/32	29.36
16S	1-11/16	42.85	1-1/4	31.75	7/8-20	1-1/4	31.75
18	2-1/16	52.37	1-11/32	34.11	1 -20	1-41/64	41.66
20	2-1/8	53.99	1-15/32	37.29	1-3/16-18	1-13/16	46.02
22	2-1/8	53.99	1-19/32	40.46	1-3/16-18	1-15/16	49.20
24	2-9/32	57.94	1-23/32	43.64	1-7/16-18	2-1/16	52.37
28	2-9/32	57.94	1-31/32	49.99	1-7/16-18	2-5/16	58.72

97-4108B

Connector Size	L Ref.		Q Max.		U Ref.		V Fitting Threads	X Ref.	
	Inch	mm	Inch	mm	Inch	mm		Inch	mm
10SL	1-1/2	38.10	7/8	22.23	1	25.40	5/8-24		
12S	1-9/16	39.67	1	25.40	1	25.40	5/8-24	1/2	12.70
14S	1-23/32	43.64	1-1/8	28.58	1-1/16	26.97	3/4-20	21/32	16.66
16S	1-3/4	44.45	1-1/4	31.75	1-1/8	28.58	7/8-20	1-1/2	38.10
18	2-5/32	54.75	1-11/32	34.11	1-3/16	30.15	1 -20	1-41/64	41.66
20	2-3/8	60.33	1-15/32	37.29	1-5/16	33.32	1-3/16-18	1-13/16	46.02
22	2-13/32	61.11	1-19/32	40.46	1-5/16	33.32	1-3/16-18	1-15/16	49.20
24	2-5/8	66.68	1-23/32	43.64	1-7/16	36.50	1-7/16-18	2-1/16	52.37
28	2-5/8	66.68	1-31/32	49.99	1-7/16	36.50	1-7/16-18	2-5/16	58.72
32	2-13/16	71.42	2-7/32	56.34	1-3/4	44.45	1-3/4-18	2-19/32	65.86
36	2-27/32	72.21	2-15/32	62.69	1-15/16	49.20	2 -18	2-27/32	72.21

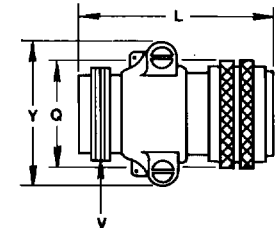
97-4106B straight plug

Used for unusual conduit applications where soldering and inspection is the prime requirement. Back shell is threaded for all standard MS/AN fittings.



97-4107B quick-disconnect plug

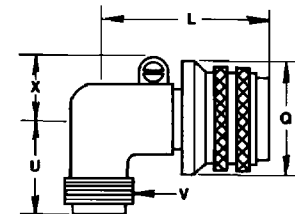
For fast connect/disconnect applications. Front shell has polarizing keyway. Mates with all types of MS receptacles. Back shell is threaded for standard MS/AN fittings.



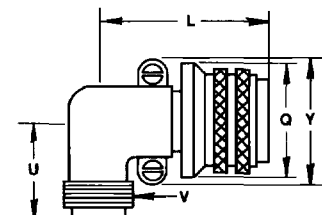
97-4108B angle plug

Lightweight, roomy cavity, split longitudinally for convenient inspection. Front shell is keyed to allow the 90° angle housing to be rotated and locked at any 45° increment.

Sizes 10SL thru 14S



Sizes 16S thru 36



97 series crimp type how to order

Example of part number for non-environmental crimp type connectors is given below.
(For environmental crimp type connectors, see how to order on page 4).

97 - 4101 A - 28 - 21 S Y (621)

Series Number
97 - designates
AMPHENOL 97 Series

Shell Type
4100 Wall Receptacle
4101 Cable Receptacle
4102 Box Receptacle
4106 Straight Plug
4107 Quick Disconnect Plug
4108 Angle Plug

Note: "4" in part number
designates crimp contact rear
release connector

Shell Construction
A - Solid Backshell
B - Split Backshell

Shell Size
10SL, 12S, 14S, 16S, 18, 20,
22, 24, 28, 32, 36

Insert Configuration Number
See insert availability listing - page 23,
and see insert arrangement illustrations -
pages 24 and 25.

Shell Finish
Omit for standard (639) bright
cadmium finish
(604) Gray anodized
(608) Black anodized
(621) Black zinc alloy
(624) Green zinc alloy
(662) Olive drab cadmium
(689) Electroless nickel

Alternate Insert Positions
Omit for standard position
W, X, Y or Z for alternate positions,
depending on insert (see page 23 for
positions available)

Contact Type*
P = Pin
S = Socket

* Contacts are not supplied with connectors, and must be ordered separately. See following pages for contact information.

Note:
Accessories for 97 Series Connectors should be ordered with matching connector plating. See accessory pages 35-41.

97 series crimp type contact information

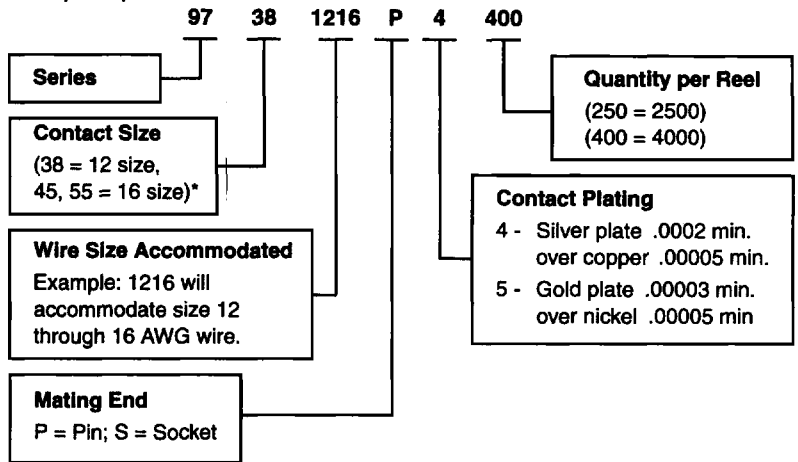
Crimp contacts can be ordered for 97 Series connectors in reel assemblies or in bulk packaging. Order by part numbers given below:

Reel Assembly - For use with semi-automatic crimping equipment; order number of reels required.

Reel Assemblies Available

Part Number	Size	For Connector Sizes
9738-1216P-X250	12	18 thru 36
9738-1216S-X250	12	18 thru 36
9745-1418P-X400	16	10SL thru 36
9745-1418S-X400	16	18 thru 36
9755-1418S-X400	16	10SL thru 16S only
9745-1622P-X400	16	10SL thru 36
9755-1622S-X400	16	10SL, 12S, 14S, 16S only
9745-1622S-X400	16	18 thru 36
9745-2026P-X400	16	10SL thru 36
9755-2026S-X400	16	10SL, 12S, 14S, 16S only
9745-2026S-X400	16	18 thru 36
9745-2630P-X400	16	10SL thru 36
9755-2630S-X400	16	10SL, 12S, 14S, 16S only
9745-2630S-X400	16	18 thru 36

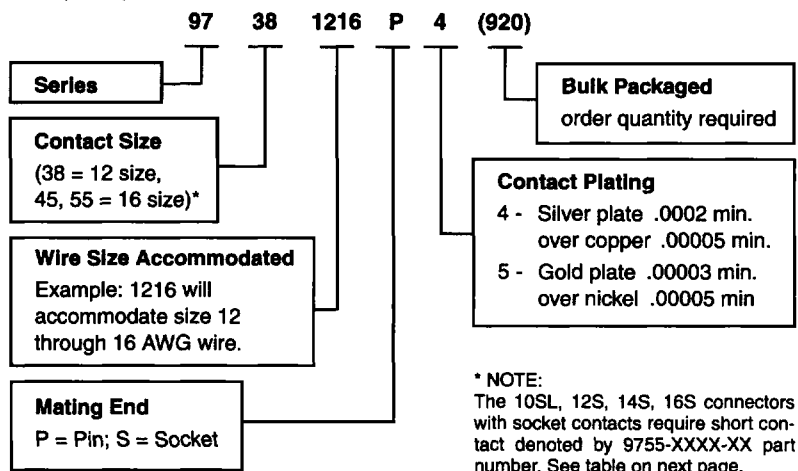
Example of part number:



Bulk Packaged Contacts Available

Part Number	Size	For Connector Sizes
9738-1216P-X(920)	12	18 thru 36
9738-1216S-X(920)	12	18 thru 36
9745-1418P-X(920)	16	10SL thru 36
9745-1418S-X(920)	16	18 thru 36
9755-1418S-X(920)	16	10SL thru 16S only
9745-1622P-X(920)	16	10SL thru 36
9755-1622S-X(920)	16	10SL, 12S, 14S, 16S only
9745-1622S-X(920)	16	18 thru 36
9745-2026P-X(920)	16	10SL thru 36
9755-2026S-X(920)	16	10SL, 12S, 14S, 16S only
9745-2026S-X(920)	16	18 thru 36
9745-2630P-X(920)	16	10SL thru 36
9755-2630S-X(920)	16	10SL, 12S, 14S, 16S only
9745-2630S-X(920)	16	18 thru 36

Example of part number:



* NOTE:
The 10SL, 12S, 14S, 16S connectors with socket contacts require short contact denoted by 9755-XXXX-XX part number. See table on next page.

97 Series Contact Code Table†

Wire Range**	Contact Code	Pin	Contact Code	Socket	Contact Code	Socket
1622	A	97-45-1622P-X(XXX)	B	97-55-1622S-X(XXX)	C	97-45-1622S-X(XXX)
1418	D	97-45-1418P-X(XXX)	E	97-55-1418S-X(XXX)	F	97-45-1418S-X(XXX)
2026	G	97-45-2026P-X(XXX)	H	97-55-2026S-X(XXX)	I	97-45-2026S-X(XXX)
2630	J	97-45-2630P-X(XXX)	K	97-55-2630S-X(XXX)	L	97-45-2030S-X(XXX)
1216	M	97-38-1216P-X(XXX)			O	97-38-1216S-X(XXX)

Codes in bold letters are most common

† See order information for bulk and reel contact deviation numbers.

** Wire range is size of wires contact will accommodate. For example: wire range 1622 will accommodate size 16 through 22.

97 series crimp type contact information and tools

Insert / Contact Where Used Table

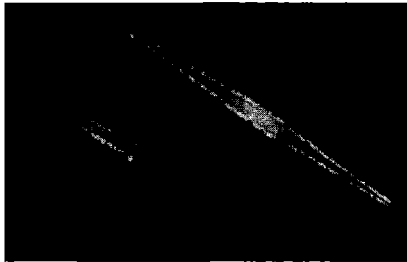
Insert Arrangement	Contact Quantity	Contact Size	Use Contacts with Code*		Insert Arrangement	Contact Quantity	Contact Size	Use Contacts with Code*	
			Pin	Socket				Pin	Socket
10SL-3	3	16	A, D, G, J	B, E, H, K	18-20	5	16	A, D, G, J	C, F, I, L
10SL-4	2	16	A, D, G, J	B, E, H, K	20-4	4	12	M	O
12S-3	2	16	A, D, G, J	B, E, H, K	20-7	8	16	A, D, G, J	C, F, I, L
14S-1	3	16	A, D, G, J	B, E, H, K	20-27	14	16	A, D, G, J	C, F, I, L
14S-2	4	16	A, D, G, J	B, E, H, K	22-14	19	16	A, D, G, J	C, F, I, L
14S-5	5	16	A, D, G, J	B, E, H, K	24-2	7	12	M	O
14S-7	3	16	A, D, G, J	B, E, H, K	28-11	4	12	M	O
16S-1	7	16	A, D, G, J	B, E, H, K		18	16	A, D, G, J	C, F, I, L
16S-8	5	16	A, D, G, J	B, E, H, K	28-12	26	16	A, D, G, J	C, F, I, L
18-1	10	16	A, D, G, J	C, F, I, L	28-20	10	12	M	O
18-4	4	16	A, D, G, J	C, F, I, L		4	16	A, D, G, J	C, F, I, L
18-11	5	12	M	O	28-21	37	16	A, D, G, J	C, F, I, L
18-12	6	16	A, D, G, J	C, F, I, L	32-414	52	16	A, D, G, J	C, F, I, L
18-19	10	16	A, D, G, J	C, F, I, L	36-10	48	16	A, D, G, J	C, F, I, L

Codes in bold letters are most common

Contact Termination Tools

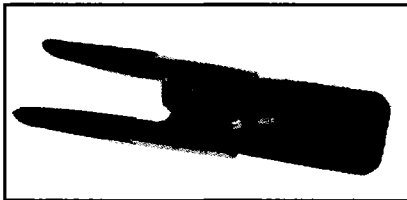
Insertion / Extraction Tools

Part Number:	Contact Size	
	16	12
	M81969/14-03	M81969/14-04



Crimping Tools (Full Cycle Type)

Crimping Tool Part Number	Contact Part Number
357-578	9738-1216X-X thru 9745-1622X-X
357-579	9745-2026X-X and 9745-2630X-X



Strip-Crimp Machines

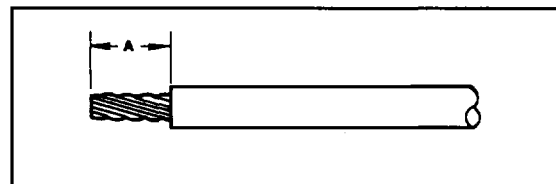
For large production quantities consult Amphenol, Sidney, NY for information on semi-automatic crimping equipment.

Wire Preparation

Strip wire to length shown in chart below. Do not cut or nick wire strands. Twist wire strands back to their original lay.

Contact Size	Contact Part Number	Insulation O.D.	Stripping Length "A"
12	9738-1216X-X	.097 / .160	.200 - .240
16	97XX-1418X-XX	.079 / .100	.170 - .190
16	97XX-1622X-X	.079 / .100	.140 - .160
16	97XX-2026X-X	.039 / .090	.140 - .160
16	97XX-2630X-X	.030 / .054	.140 - .160

Note: XX = 45 or 55 (38 = 12 size; 45, 55 = 16 size)



For further information on contact insertion/removal/crimping for 97 Series Connectors, ask for L-1268 assembly instructions.