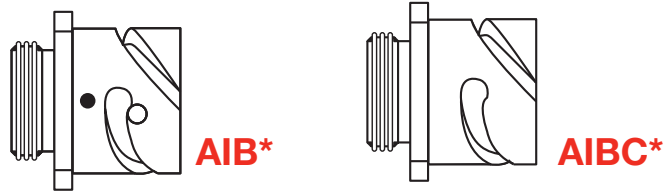


CREATE YOUR PART NUMBER USING THESE NINE STEPS

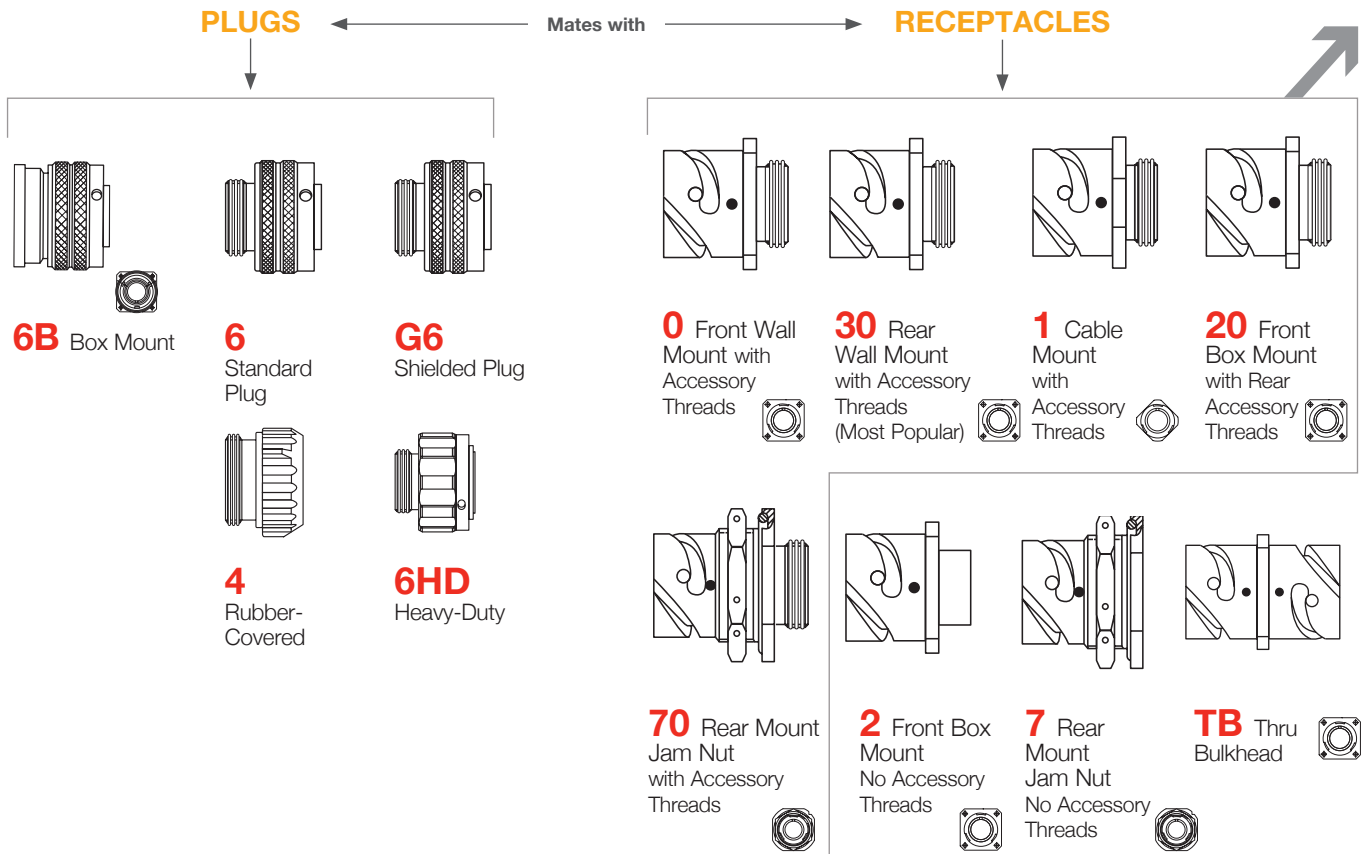
1	2	3	4	5	6	7	8	9
AIB	6HD	F	A	24-28	P	W	S	-472
CONNECTOR TYPE	SHELL STYLE	END BELLS (If omitting endbell, enter -)	CABLE CLAMP/BOOT (If needed)	LAYOUT	CONTACT	ROTATION (omit for normal)	CONTACT TYPE	PLATING/MODIFICATION

STEP 1: SELECT CONNECTOR TYPE



* AIBC is the commercial version of the AIB. It comes without wear pins in the receptacles and without wave springs in the coupling nuts.
Note: AIBC are fully intermateable with all reverse bayonet connectors.

STEP 2: SELECT SHELL STYLE, PLUG OR RECEPTACLE



STANDARD SPECIALS — CALL WITH NPT THREAD SIZE, SEALTITE CONDUIT DIAMETER, OR CABLE OUTSIDE DIAMETER.

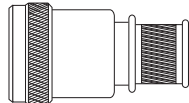
SHIELDED CABLE/HEAT SHRINK



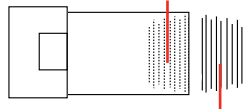
LOW COST GLAND SEAL



SHIELDED CABLE BANDING

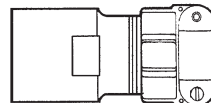


INTERNAL THREAD VERSION

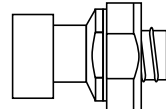


EXTERNAL THREAD VERSION

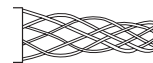
GLAND SEAL



CONDUIT METAL

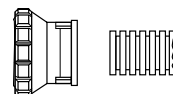


MESH GRIP



CONDUIT PLASTIC

➔ See pages 495-496

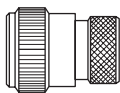


STEP 3: SELECT CABLE CLAMP OR BOOT (IF APPLICABLE)

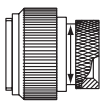
TIP: Order connector, backshell and all accessories as one part number! See www.peigenesis.com/en/solution-guides.html



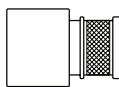
RV
No Clamp



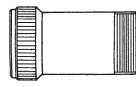
G Heat Shrink



G2 Spin Coupling
Heat Shrink



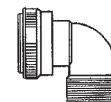
U Low-Cost
Shielded



L Long Extender



A Unsealed
(no grommet seal)



T MS Style
(MS3108) 90°



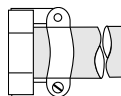
P Potting
*Potting
Compound
⇒ See
Page 494

F Sealed
(with grommet seal)

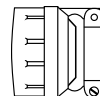
STEP 4: SELECT CABLE CLAMP OR BOOT (IF APPLICABLE)



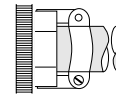
Heat Shrink Boot
Call with cable outside
diameter ⇒ See pages
490-491.



A MS3057-A
Standard Cable Clamp



C MS3057-C
Gland Seal ⇒ See
Page 112



9767 9767
Gland Seal for smaller cable
range. ⇒ See Page 113

STEP 5: SELECT LAYOUT

⇒ See pages 72-82

STEP 6: SELECT CONTACT

P = Pin **S** = Socket **PS** = Style TB Only

STEP 7: SELECT ROTATION

⇒ See pages 83-93 (Omit for normal)
W, X, Y, Z

STEP 8: SELECT CONTACT TYPE

S = Solder **C** = Crimp*
H = PC** **O** = Less Contacts

* When using a "C" in part number, the connector is supplied with the standard size crimp contacts for its layout. Bolded part numbers on ⇒ page 94-96 indicate crimp contact. Please call for connectors with reduced or enlarged crimp barrel contacts.
⇒ ** See page 99 for post diameters and lengths.

STEP 9: SELECT PLATING

CONTACTS

(Omit for silver contacts)

B30 = Gold 30µ" Gold over Nickel
T = Thermocouple (Solder only)
RDS = RADSOK (Socket only) 12, 8, 4, 0

SHELL PLATING

(Omit for olive drab chromate over cadmium)

023 = Nickel (RoHS with crimp or 116 contacts)
024 = Green Zinc Cobalt
025 = Black Zinc Alloy
(RoHS with crimp or 116 contacts)
027 = Conductive Black Zinc Alloy
(RoHS with crimp or 116 contacts)
G96 = Black Anodized
072 = Gray Zinc Nickel (RoHS with crimp or 116 contacts)
116 = Less Pre-tinned Solder Cups
472 = 116 & 025 mod codes (RoHS)
548 = 116 & 023 mod codes (RoHS)
553 = 116 & 027 mod codes (RoHS)
724 = 116 & 072 mod codes (RoHS)

MATERIALS

(Omit for standard neoprene)

L = Low-smoke, zero-halogen
V = High-temperature Vitor®*

*Vitor® is a registered trademark of DuPont Dow Elastomers

LAYOUTS BY NUMBER OF CONTACTS

CONTACT LEGEND ⊕=16 ●=12 ⊙=8 ○=4 ⊗=0
 Mating face view of pin inserts

SERIES KEY: AIB (●=GT) AIT (⊕=MS; ⊕=non QPL) 97 (⚡=97)
 VG95234 (■) MS3450 (▼=MS; ▼=non QPL) Thermocouple (⚡)

1 CONTACT

LAYOUT	8S-1	10S-2	12S-4	12-5	14S-4	14-3	16S-3	16-2
# OF CONTACTS	1-#16	1-#16	1-#16	1-#12	1-#16	1#8	1#16	1-#12
SERIES	⊕ ⊕ ▼	⊕ ▼	⊕ ▼	⊕ ⊕ ▼	● ⊕ ⊕	⊕ ▼	▼ ⊕	● ⊕ ▼
SERVICE RATING	A	A	D	D	D	A	B	E

LAYOUT	16-12	18-6	18-7	18-16	18-420	20-2	22-7	24-52
# OF CONTACTS	1-#4	1-#4	1-#8	1-#12	1-#12	1-#0	1-#0	1-#12
SERIES	● ⊕ ⊕ ▼	● ⊕ ▼	⊕ ● ▼	● ⊕ ⊕ ▼	⚡	● ⊕ ⊕ ▼	● ⊕ ▼	● ⊕
SERVICE RATING	A	D	B	C	17 KVac 24 KVdc	D	E	21 KVac 30 KVdc

2 CONTACTS

LAYOUT	10SL-4*	12S-3*	12S-6	14S-9*	16S-4	16A11	16-11	16-13	18-3
# OF CONTACTS	2-#16	2-#16	2-#16	2-#16	2-#16	2-#12	2-#12	2-#12	2-#12
SERIES	● ⊕ ⊕ ▼ ⚡	⊕ ⊕ ▼ ⚡	⚡	● ⊕ ⊕ ▼ ⚡	● ⊕ ⊕ ▼ ⚡	■	● ⊕ ⊕ ▼ ⚡	⊕ ▼ ⚡	● ⊕ ⊕
SERVICE RATING	A	A	Thermocouple	A	D	A	A	Thermocouple	D

LAYOUT	18-14	20-12	20-23	22-1	22-8	22-11	24-1
# OF CONTACTS	1-#16; 1-#4	1-#16; 1-#4	2-#8	2-#8	2-#12	2-#16	1-#12; 1-#0
SERIES	⊕ ▼	⊕	● ⊕ ⊕	● ⊕ ⊕	● ⊕ ⊕	● ⊕ ⊕ ▼	▼
SERVICE RATING	A	A	A	D	E	B	D

3 CONTACTS

LAYOUT	24-9	28-7	32-5	10SL-3*	14S-1	14S-7	14S-12	16S-5
# OF CONTACTS	2-#4	2-#4	2-#0	3-#16	3-#16	3-#16	3-#16	3-#16
SERIES	● ⊕ ⊕ ■	● ⊕	● ⊕ ⊕	● ⊕ ⊕ ▼	⊕ ⊕ ▼ ●	● ⊕ ⊕ ▼ ⚡	● ⊕ ⊕ ▼	● ⊕ ⊕
SERVICE RATING	A	D	D	A	A	A	A	A

* most popular * Pins in receptacle, sockets in plug only for 97/AIT/MS series

LAYOUTS BY NUMBER OF CONTACTS

CONTACT LEGEND ⊕ =16 ● =12 ⊙ =8 ○ =4 ⊗ =0 ◐ =2/0 SERIES KEY: AIB (●=GT) AIT (⊕=MS; ⊕=non QPL) 97 (⊕=97)
 Mating face view of pin inserts VG95234 (■) MS3450 (▼=MS; ▽=non QPL) Thermocouple (⊕)

3 CONTACTS (CONT.)

LAYOUT	16S-6	16-7	16-10	18-5	18-22	20-3	20-6	20-19
# OF CONTACTS	3-#16	2-#16; 1-#8	3-#12	1-#16; 2-#12	3-#16	3-#12	3-#16	3-#8
SERIES	● ⊕ ⊕	● ⊕ ⊕ ▽ ▽	● ⊕ ⊕ ▽ ▽	● ⊕ ⊕ ▽ ▽	● ⊕ ⊕ ▽ ▽	● ⊕ ⊕	● ⊕ ⊕	● ⊕ ⊕ ▽ ▽
SERVICE RATING	A	A	A	D	D	D	D	A

LAYOUT	20-51	20-59	22-2	22-6	22-9	22-21	22-80	28-3
# OF CONTACTS	3-#8	3-#8 for #10 or #12 wire	3-#8	1-#16; 2-#8	3-#12	2-#16; 1-#0	3-#8 for #10 or #12 wire	3-#8
SERIES	● ⊕	● ⊕	● ⊕ ⊕ ▽ ▽	● ⊕ ▽ ▽	● ⊕ ⊕ ▽ ▽	● ⊕ ▽ ▽	● ⊕	● ⊕ ⊕ ▽ ▽
SERVICE RATING	A	A	D	D	E	A	A	E

4 CONTACTS

LAYOUT	28-6	28-72	36-4	40-AV	12SL-844	14S-2*	14S-10
# OF CONTACTS	3-#4	3-#4 (coax) RG-59A/U or RG-62A/U	3-#0	3-#2/0	4-#16	4-#16	4-#16
SERIES	● ⊕ ⊕	● ⊕	● ⊕ ⊕	● ⊕	⊕	● ⊕ ⊕ ▽ ▽	● ⊕ ⊕ ▽ ▽
SERVICE RATING	D	(coax)	D(A); A(B,C)	D	I	I	I

LAYOUT	16-9	16-59	18-4*	18-10*	18-13	18-15	20-4*	20-20	20-24
# OF CONTACTS	2-#16; 2-#12	4-#12	4-#16	4-#12	3-#12; 1-#8	4-#12	4-#12	3-#12; 1-#4	2-#16; 2-#8
SERIES	● ⊕ ⊕ ▽ ▽	● ⊕	● ⊕ ⊕ ▽ ▽	● ⊕ ⊕ ▽ ▽	● ⊕ ⊕ ▽ ▽	● ⊕ ⊕ ▽ ▽	● ⊕ ⊕ ▽ ▽	● ⊕	● ⊕ ⊕ ▽ ▽
SERVICE RATING	A	A	D	A	A	Thermocouple	D	A	A

LAYOUT	22B22	22-4	22-10	22-22*	24-4	24-22*	32-17
# OF CONTACTS	4-#8	2-#12; 2-#8	4-#16	4-#8	3-#16; 1-#0	4-#8	4-#4
SERIES	■	● ⊕ ⊕ ▽ ▽	● ⊕ ⊕ ▽ ▽	● ⊕ ⊕ ▽ ▽	▽	● ⊕ ⊕ ▽ ▽	● ⊕ ⊕ ▽ ▽
SERVICE RATING	A	A	E	A	D	D	D

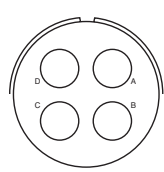
* most popular

LAYOUTS BY NUMBER OF CONTACTS

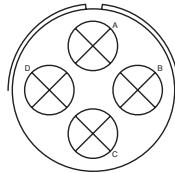
CONTACT LEGEND ⊕=16 ⊖=12 ⊙=8 ○=4 ⊗=0
 Mating face view of pin inserts

SERIES KEY: AIB (●=GT) AIT (⊕=MS; ⊖=non QPL) 97 (⚡=97)
 VG95234 (■) MS3450 (▼=MS; ▽=non QPL) Thermocouple (⚡)

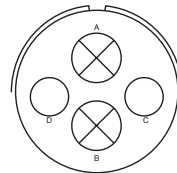
4 CONTACTS (CONT.)



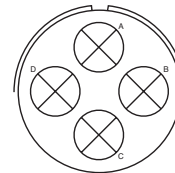
LAYOUT 32-58
 # OF CONTACTS 4-#4 (coax) RG-161/U
 or RG-179/U
 SERIES ● ⊖
 SERVICE RATING (coax)



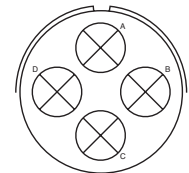
LAYOUT 36-5
 # OF CONTACTS 4-#0
 SERIES ● ⊕ ⊖ ▣ ▼
 SERVICE RATING A



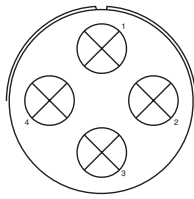
LAYOUT 36-51
 # OF CONTACTS 2-#4; 2-#0
 SERIES ● ⊖
 SERVICE RATING D



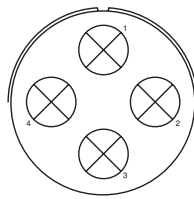
LAYOUT 36-64
 # OF CONTACTS 4-#0 (coax) RG-11/U;
 RG-12/U or RG-13/U
 SERIES ● ⊖
 SERVICE RATING (coax)



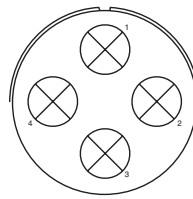
LAYOUT 36-65
 # OF CONTACTS 4-#0 (coax) RG-59/U;
 RG-62/U or RG-71/U
 SERIES ● ⊖
 SERVICE RATING (coax)



LAYOUT 40-57
 # OF CONTACTS 4-#0
 SERIES ● ⊖
 SERVICE RATING E



LAYOUT 40-66
 # OF CONTACTS 4-#0 (coax) RG-63B/U
 SERIES ● ⊖
 SERVICE RATING (coax)



LAYOUT 40-86
 # OF CONTACTS 4-#0 (coax) RG-115A/U
 SERIES ● ⊖
 SERVICE RATING E/ (coax)

5 CONTACTS



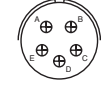
LAYOUT 14S-5*
 # OF CONTACTS 5-#16
 SERIES ● ⊕ ⊖ ▽
 SERVICE RATING I



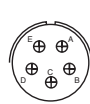
LAYOUT 16S-8*
 # OF CONTACTS 5-#16
 SERIES ● ⊕ ⊖ ▽
 SERVICE RATING A



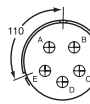
LAYOUT 18-11*
 # OF CONTACTS 5-#12
 SERIES ● ⊕ ⊖ ▽ ▣
 SERVICE RATING A



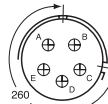
LAYOUT 18-20
 # OF CONTACTS 5-#16
 SERIES ● ⊕ ⊖ ▽
 SERVICE RATING A



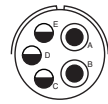
LAYOUT 18-29
 # OF CONTACTS 5-#16
 SERIES ● ⊕ ⊖
 SERVICE RATING A



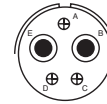
LAYOUT 18-30
 # OF CONTACTS 5-#16
 SERIES ● ⊖ ⊖ ⊖
 SERVICE RATING A



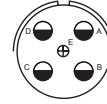
LAYOUT 18-31
 # OF CONTACTS 5-#16
 SERIES ● ⊖ ⊖ ⊖
 SERVICE RATING A



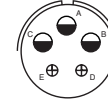
LAYOUT 20-14
 # OF CONTACTS 3-#12; 2-#8
 SERIES ● ⊕ ⊖ ▽
 SERVICE RATING A



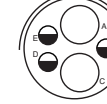
LAYOUT 22-12
 # OF CONTACTS 3-#16; 2-#8
 SERIES ● ⊕ ⊖ ▣
 SERVICE RATING D



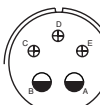
LAYOUT 22-13
 # OF CONTACTS 1-#16; 4-#12
 SERIES ● ⊕ ⊖
 SERVICE RATING D(E) A(A,B,C,D)



LAYOUT 22-34
 # OF CONTACTS 2-#16; 3-#12
 SERIES ⊕ ⊖
 SERVICE RATING D



LAYOUT 24-12
 # OF CONTACTS 3-#12; 2-#4
 SERIES ● ⊕ ⊖ ▣ ▽
 SERVICE RATING A



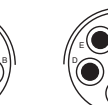
LAYOUT 24-17
 # OF CONTACTS 3-#16; 2-#12
 SERIES ● ⊖ ▽
 SERVICE RATING D



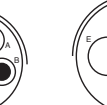
LAYOUT 24-51
 # OF CONTACTS 5-#8
 SERIES ● ⊖
 SERVICE RATING B; E for AWG #10 or 12 wire
 A; C; D for AWG #18 wire



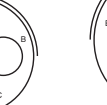
LAYOUT 24-53
 # OF CONTACTS 5-#8
 SERIES ● ⊖
 SERVICE RATING A



LAYOUT 24-79
 # OF CONTACTS 5-#8
 SERIES ● ⊖
 SERVICE RATING A



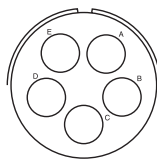
LAYOUT 28-5
 # OF CONTACTS 2-#16; 1-#12; 2-#4
 SERIES ● ⊕ ⊖ ▽
 SERVICE RATING D



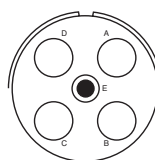
LAYOUT 32-1
 # OF CONTACTS 3-#12; 2-#0
 SERIES ⊕ ▣ ▽
 SERVICE RATING E(A); D(All others)



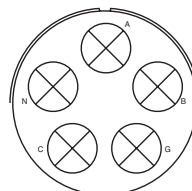
LAYOUT 32-2
 # OF CONTACTS 2-#16; 3-#4
 SERIES ● ⊕ ▽
 SERVICE RATING E



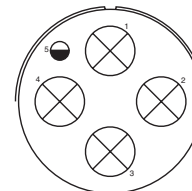
LAYOUT 32-63
 # OF CONTACTS 5-#4
 SERIES ▽
 SERVICE RATING D



LAYOUT 32-79
 # OF CONTACTS 1-#8; 4-#4
 SERIES ● ⊖
 SERVICE RATING D



LAYOUT 40-5
 # OF CONTACTS 5-#0
 SERIES ● ⊖
 SERVICE RATING A



LAYOUT 40-75
 # OF CONTACTS 4-#0; 1-#12
 SERIES ● ⊖
 SERVICE RATING E

6 CONTACTS



LAYOUT 14S-6*
 # OF CONTACTS 6-#16
 SERIES ● ⊕ ⊖ ▽ ▣
 SERVICE RATING I



LAYOUT 18-12
 # OF CONTACTS 6-#16
 SERIES ⊕ ⊖ ▽ ▣
 SERVICE RATING A



LAYOUT 20-8
 # OF CONTACTS 4-#16; 2-#8
 SERIES ● ⊕ ⊖ ▣ ▽
 SERVICE RATING I

* most popular

LAYOUTS BY NUMBER OF CONTACTS

CONTACT LEGEND ⊕ =16 ● =12 ⊙ =8 ○ =4 ⊗ =0
Mating face view of pin inserts

SERIES KEY: AIB (●=GT) AIT (⊕=MS; ⊙=non QPL) 97 (⊕=97)
VG95234 (■) MS3450 (▼=MS; ▽=non QPL) Thermocouple (⊕)

6 CONTACTS (CONT.)

LAYOUT	20-17	20-22	20-66	22-5	22-15	22-24	28-22	28-82
# OF CONTACTS	1-#16; 5-#12	3-#16; 3-#8	1-#16; 5-#12 for #10 wire	4-#16; 2-#12	1-#16; 5-#12	4-#16; 2-#12	3-#16; 3-#4	4-#12; 2-#8
SERIES	● ⊕ ⊕ ▼	● ⊕ ▼	● ⊙	● ⊕ ⊕ ▼ ⊕	● ⊕ ⊕ ■ ▼	● ⊕	● ⊕ ■ ▼	● ⊙
SERVICE RATING	A	A	A	D	A(A, B, C, E, F); E(D)	D(C, D, E)A(A, B, F)	D	D

7 CONTACTS

LAYOUT	36-3	36-6	40-74	14SA7	16S-1*	18-9	18-17
# OF CONTACTS	3-#12; 3-#0	4-#4; 2-#0	1-#12; 1-#4 (coax) RG-62/U; 4-#0 (coax) RG-9B/U or RG-214/U	7-#16	7-#16	5-#16; 2-#12	5-#16; 2-#12
SERIES	● ⊕ ⊕ ▼	● ⊕ ⊕ ■ ▼	● ⊙	● ⊙	● ⊕ ⊕ ■ ▼ ⊕	● ⊕ ⊕ ■ ▼ ⊕	● ⊙ ⊕ ▼
SERVICE RATING	D	A	A / coax	A	A	I	I

LAYOUT	20-15*	20-57	22-26	22-28	22-33	24-2	24-3
# OF CONTACTS	7-#12	7-#12 for #14 or 16 wire	5-#16; 2-#12	7-#12	7-#16	7-#12	5-#16; 2-#12
SERIES	● ⊕ ⊕ ▼ ⊕	● ⊙	⊕	● ⊕	● ⊕	● ⊕ ⊕ ▼	● ⊕
SERVICE RATING	A	A	1/8" spacing	D/A	D(A, B, C, D); A(E, F, G)	D	D

LAYOUT	24-10	24-16	24-27	24-60	24-66	24-71	24-75
# OF CONTACTS	7-#8	3-#16; 3-#12; 1-#8	7-#16	7-#8 or 12 wire	7-#12	5-#8 for #10 or 12 wire, 2-#8	2-#8 for #16 wire; 5-#8
SERIES	● ⊕ ⊕ ■ ▼	● ⊕ ⊕ ▼	● ⊕ ⊕ ▼	● ⊙	● ⊙	● ⊙	● ⊙
SERVICE RATING	A	D(A, B, F, G) A(C, D, E)	E	A	D	A	A

LAYOUT	28-10	32-10	36-73	36-77	36-83	40-87
# OF CONTACTS	3-#12; 2-#8; 2-#4	3-#16; 2-#8; 2-#4	7-#4 (coax) RG-62B/U	7-#4	7-#4 (coax) RG-58/U	7-#4
SERIES	● ⊕ ⊕ ▼	● ⊕	● ⊙	● ⊙	● ⊙	● ⊙
SERVICE RATING	D(G); A(All others)	E(A, F); B(G); D(B, E); A(C, D)	(coax)	D	(coax)	D









* most popular

LAYOUTS BY NUMBER OF CONTACTS

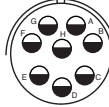
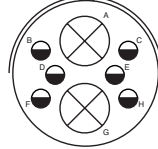
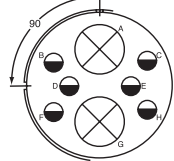
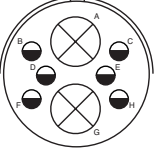
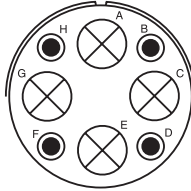
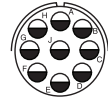
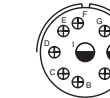
CONTACT LEGEND ⊕=16 ●=12 ⊙=8 ○=4 ⊗=0
 Mating face view of pin inserts

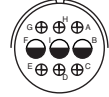
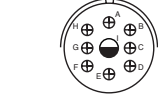
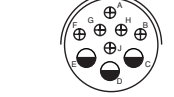
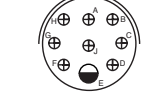
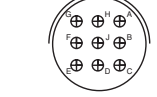
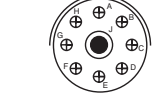

SERIES KEY: **AIB** (●=GT) **AIT** (⊕=MS; ⊙=non QPL) **97** (⬠=97)
VG95234 (■) **MS3450** (▼=MS; ▽=non QPL) **Thermocouple** (⊕^o)

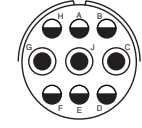
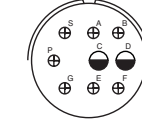
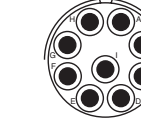
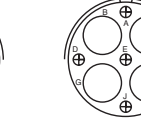
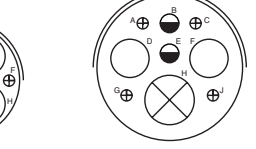
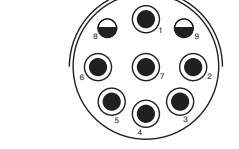
8 CONTACTS

							
LAYOUT	18-8*	20-7*	20-9	20-79	22-18	22-23	22-36
# OF CONTACTS	7-#16; 1-#12	8-#16	7-#16; 1-#12	7-#16; 1-#12 for #16 wire	8-#16	8-#12	8-#12 for #14 or 16 wire
SERIES	● ⊕ ⊙ ▼	● ⊕ ⊙ ▼ ⊕ ^o	⊕ ⊙ ▽	⊙	● ⊕ ⊙ ▽	● ⊕ ⊙ ▼ ⊕ ^o	● ⊕
SERVICE RATING	A	A (B,C,F,G) I(all others)	DCH; A(all others)	DCH; A(all others)	D(A, B, F, G, H); A(C, D, E)	D(H); A(all others)	D(H); A(all others)



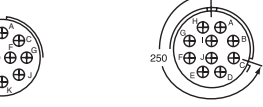
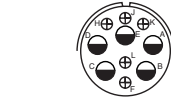

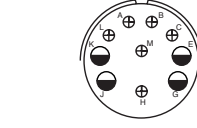
9 CONTACTS

						
LAYOUT	24-6	32-15	32-52	32-57	20A9	20-16
# OF CONTACTS	8-#12	6-#12; 2-#0	6-#12; 2-#0	6-#12; 2-#0 (coax) RG-7/U	4-#8; 4-#0	7-#16; 2-#12
SERIES	● ⊕ ⊙ ▽	● ⊕ ▼	● ⊙	● ⊙	● ⊙	● ⊕ ⊙ ▼
SERVICE RATING	D(A, G, H); A(all others)	D	D	(coax)	A	D(J), I(all others) A

						
LAYOUT	20-18*	20-21	22-16	22-17	22-20	24-11
# OF CONTACTS	6-#16; 3-#12	8-#16; 1-#12	6-#16; 3-#12	8-#16; 1-#12	9-#16	6-#12; 3-#8
SERIES	● ⊕ ⊙ ▼	● ⊕ ⊙ ▼	● ⊕ ⊙ ▼ ⊕ ^o	● ⊕ ▽	● ⊕ ⊙	● ⊕ ⊙ ▼ ⊕ ^o
SERVICE RATING	A	A	A	D(A); A(all others)	A	D(J); A(all others) A

					
LAYOUT	28-1	28-4	28-84	28AY	32-3
# OF CONTACTS	6-#12; 3-#8	7-#16; 2-#12	9-#8	5-#16; 4-#4	4-#16; 2-#12; 2-#4; 1-#0
SERIES	● ⊕ ⊙ ▼	● ⊕ ▽	● ⊙	● ⊙	● ⊕ ⊙ ▼
SERVICE RATING	D(A, J, E); A(all others)	E(G, P, S); D(all others)	A	A	D (coax)

10 CONTACTS

					
LAYOUT	18-1*	18-19	18-24	20-58	24-21
# OF CONTACTS	10-#16	10-#16	10-#16	5-#16; 5-#12	9-#16; 1-#8
SERIES	● ⊕ ⊙ ▼ ⊕ ^o	● ⊙ ⊙ ▽	● ⊙ ⊙ ▽	● ⊙	● ⊕ ⊙ ▽
SERVICE RATING	A (B, C, F, G) I(all others)	A	A(B, C, F, G); I(balance)	A	D
					B(H, M); D(A, B) A(C, E, G, J, K, L)

* most popular

LAYOUTS BY NUMBER OF CONTACTS

CONTACT LEGEND ⊕ =16 ⊖ =12 ● =8 ○ =4 ⊗ =0
 Mating face view of pin inserts

SERIES KEY: AIB (●=GT) AIT (⊕=MS; ⊖=non QPL) 97 (◆=97)
 VG95234 (■) MS3450 (▼=MS; ▽=non QPL) Thermocouple (⊞)

11 CONTACTS

LAYOUT	20-33	24-20	36-14	40-67	40-72	40-80
# OF CONTACTS	11-#16	9-#16; 2-#12	6-#16; 5-#12; 5-#8	1-#16; 10-#4 (coax) RG-59/U	1-#16; 10-#4 (coax) RG-9B/U	10-#4; 1-#16
SERIES	● ⊕ ◆ ▼	● ⊕ ◆ ▼ ⊞	● ⊕	● ◆	● ◆	● ◆
SERVICE RATING	A	D	D	A (coax)	A (coax)	A

12 CONTACTS

LAYOUT	22-63	24-19	28-8	28-9	28-18	28-51
# OF CONTACTS	8-#16; 4-#12	12-#16	10-#16; 2-#12	6-#16; 6-#12	12-#16	12-#12
SERIES	● ◆	● ⊕	● ⊕ ◆ ▽	● ⊕ ◆ ▼	● ⊕ ◆ ▽	● ◆
SERVICE RATING	A	A	E(L,M,); D(B) A(balance)	D	C(M); D(G, H, J, K, L) A(A, B); I(C,D,E,F)	A

13 CONTACTS

LAYOUT	20-11	20-25	20-30	22-70	24-58	32-14	20-27*
# OF CONTACTS	13-#16	13-#16	13-#16	5-#16; 8-#12	7-#16; 3-#12; 3-#8	13-#12	14-#16
SERIES	● ⊕ ◆	● ◆ ◆	● ◆ ◆	● ◆	● ◆	◆	● ⊕ ◆ ▼ ⊞
SERVICE RATING	I	I	I	A	A	D	A

14 CONTACTS

LAYOUT	22-19*	24-59	28-2	28-20	32-4	32-9	36-78
# OF CONTACTS	14-#16	7-#16; 7-#12	12-#16; 2-#12	4-#16; 10-#12	12-#16; 2-#12	12-#16; 2-#4	12-#8; 2-#16
SERIES	● ⊕ ◆ ▼ ⊞	● ◆	● ⊕ ◆ ▼	● ⊕ ◆ ▼ ⊞	● ⊕	● ⊕ ▼	● ◆
SERVICE RATING	A	A	D	A	A(F, J, K, N); D(all others)	D	A

• different per 1651 STD: 5-#12; 2-#4

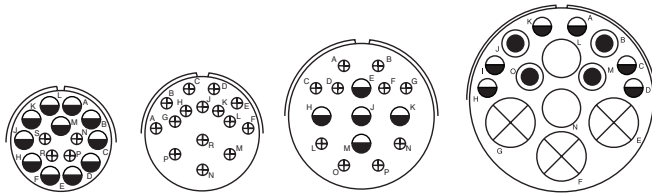
* most popular

LAYOUTS BY NUMBER OF CONTACTS

CONTACT LEGEND ⊕=16 ●=12 ●=8 ○=4 ⊗=0
Mating face view of pin inserts

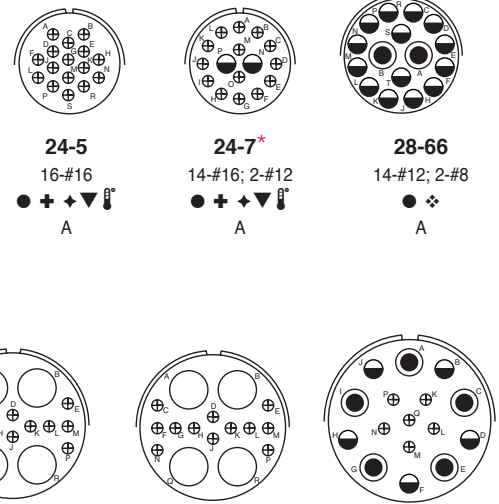
SERIES KEY: AIB (●=GT) AIT (⊕=MS; ⊕=non QPL) 97 (⊕=97)
VG95234 (■) MS3450 (▼=MS; ▼=non QPL) Thermocouple (⊕)

15 CONTACTS



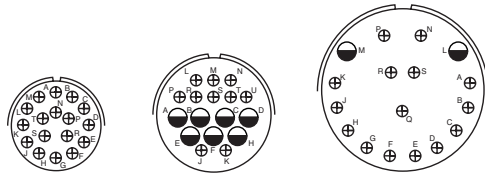
LAYOUT	24-65	28-17*	32-12	40-5□
# OF CONTACTS	4-#16; 11-#12	15-#16	10-#16; 5-#12	6-#12; 4-#8; 2-#4; 3-#0
SERIES	● ⊕	● ⊕ ⊕ ▼	● ⊕	▼
SERVICE RATING	A	B(R); D(M-P); A(A-L)	A(C, D, E, F, G); D(all others)	A

16 CONTACTS



LAYOUT	24-5	24-7*	28-66	28-74	28-75	28-79	32-68	32-82	36-14
# OF CONTACTS	16-#16	14-#16; 2-#12	14-#12; 2-#8	9-#16; 4-#8; 3-#8 for #10 wire	9-#16; 7-#8 for #10 wire	7-#8; 9-#16	12-#12; 4-#4 (coax)	12-#16; 4-#4	6-#16; 5-#12; 5-#8
SERIES	● ⊕ ▼ ⊕	● ⊕ ▼ ⊕	● ⊕	● ⊕	● ⊕	● ⊕	● ⊕	● ⊕	● ⊕
SERVICE RATING	A	A	A	A	A	A	A (coax)	A	D

17 CONTACTS



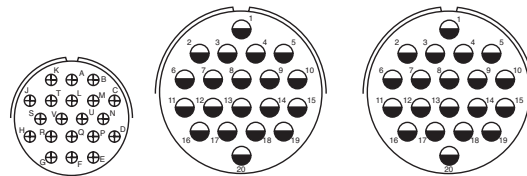
LAYOUT	20-29*	28-59	36-13
# OF CONTACTS	17-#16	10-#16; 7-#12	15-#16; 2-#12
SERIES	● ⊕ ▼ ⊕	● ⊕	● ⊕
SERVICE RATING	A	A	E(N, P, Q); A(all others)

19 CONTACTS



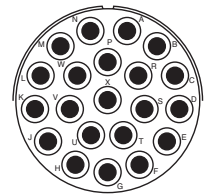
LAYOUT	20A48	20-26	22-14*	24-67
# OF CONTACTS	19-#16	19-#16	19-#16	19-#12
SERIES	■	⊕ ●	● ⊕ ⊕ ▼ ⊕	● ⊕
SERVICE RATING	I	A	A	I

20 CONTACTS



LAYOUT	24-84	32-76	28-16	36-79	36-80
# OF CONTACTS	1-#12; 18-#12 (coax) RG-188/U or RG-174/U	19-#12,	20-#16	20-#12	20-#12 for #10 wire
SERIES	● ⊕	● ⊕	● ⊕ ▼ ⊕	● ⊕	● ⊕
SERVICE RATING	A (coax)	A	A	A	A

21 CONTACTS



LAYOUT	40-68
# OF CONTACTS	21-#8
SERIES	● ⊕
SERVICE RATING	A

* most popular

□ Special arrangement for MS3450 Series

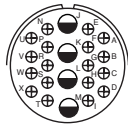
LAYOUTS BY NUMBER OF CONTACTS

CONTACT LEGEND ⊕=16 ⊖=12 ●=8 ○=4 ⊗=0
Mating face view of pin inserts

SERIES KEY: AIB (●=GT) AIT (⊕=MS; ⊖=non QPL) 97 (◆=97)
VG95234 (■) MS3450 (▼=MS; ▽=non QPL) Thermocouple (⊕)

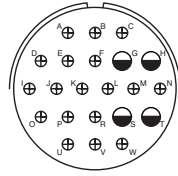
22 CONTACTS

23 CONTACTS



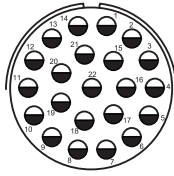
28-11*

OF CONTACTS 18-#16; 4-#12
SERIES ● ⊕ ⊖ ◆ ▼ ⊕
SERVICE RATING A



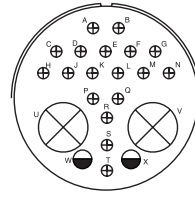
36-1

OF CONTACTS 18-#16, 4-#12
SERIES ● ⊕ ◆
SERVICE RATING D



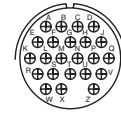
36-22

OF CONTACTS 22-#12
SERIES ● ⊖
SERVICE RATING D



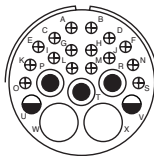
40-7

OF CONTACTS 18-#16; 2-#12; 2-#0
SERIES ▽
SERVICE RATING P, Q, U, V, W, X=A; D(balance)



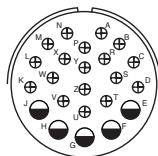
24-80

OF CONTACTS 23-#16
SERIES ● ⊖ ▽
SERVICE RATING I



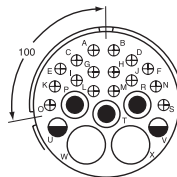
32-6

OF CONTACTS 16-#16; 2-#12; 3-#8; 2-#4
SERIES ● ⊕ ◆ ⊖ ▼
SERVICE RATING A



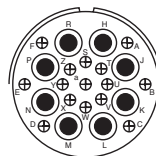
32-13

OF CONTACTS 18-#16; 5-#12
SERIES ● ⊕ ◆ ▼
SERVICE RATING D



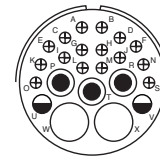
32-16

OF CONTACTS 16-#16; 2-#12; 3-#8; 2-#4
SERIES ● ⊖ ▽
SERVICE RATING A



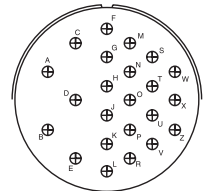
32-60

OF CONTACTS 15-#16; 8-#8 (coax)
SERIES RG-124/U ● ⊖
SERVICE RATING A (coax)



32-62

OF CONTACTS 16-#16; 2-#12; 1-#8; 2-#8 (coax) RG-124/U; 2-#4
SERIES ● ⊖
SERVICE RATING A (coax)



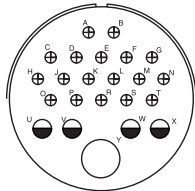
40-2

OF CONTACTS 23-#16
SERIES ▽
SERVICE RATING D

23 CONTACTS (CONT.)

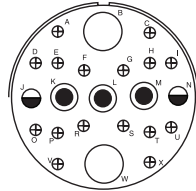
24 CONTACTS

25 CONTACTS



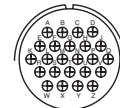
40-3

OF CONTACTS 18-#16; 4-#12; 1-#4
SERIES ▽
SERVICE RATING D



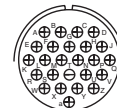
40-4

OF CONTACTS 16-#16; 2-#12; 3-#8; 2-#4
SERIES ▽
SERVICE RATING D



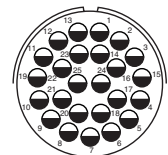
24-28*

OF CONTACTS 24-#16
SERIES ● ⊕ ◆ ⊖ ▼ ⊕
SERVICE RATING I



24-AJ

OF CONTACTS 25-#16
SERIES ● ⊖
SERVICE RATING A



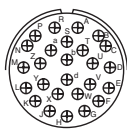
32-25

OF CONTACTS 25-#12
SERIES ● ⊖
SERVICE RATING A

26 CONTACTS

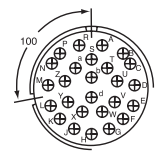
28 CONTACTS

29 CONTACTS



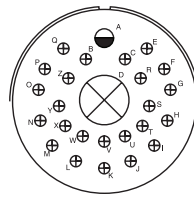
28-12*

OF CONTACTS 26-#16
SERIES ● ⊕ ◆ ⊖ ▼ ⊕
SERVICE RATING A



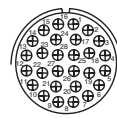
28-13

OF CONTACTS 26-#16
SERIES ● ⊖ ◆ ▽
SERVICE RATING A



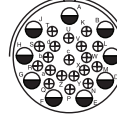
40-6

OF CONTACTS 24-#16; 1-#12; 1-#0
SERIES ▽
SERVICE RATING D



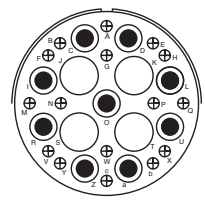
28-96

OF CONTACTS 28-#16
SERIES ● ⊖
SERVICE RATING I



28A63

OF CONTACTS 19-#16; 9-#12
SERIES ■
SERVICE RATING A



40-10

OF CONTACTS 16-#16; 9-#8; 4-#4
SERIES ● ⊕
SERVICE RATING A

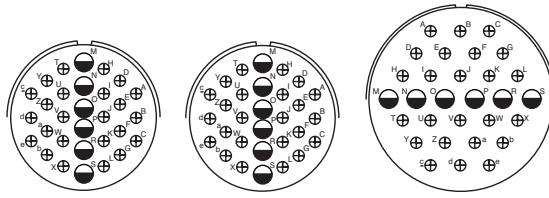
* most popular

LAYOUTS BY NUMBER OF CONTACTS

CONTACT LEGEND ⊕=16 ●=12 ●=8 ○=4 ⊗=0
 Mating face view of pin inserts

SERIES KEY: AIB (●=GT) AIT (⊕=MS; ◆=non QPL) 97 (◆=97)
 VG95234 (■) MS3450 (▼=MS; ▽=non QPL) Thermocouple (⊖)

30 CONTACTS



32-8

24-#16; 6-#12

● ⊕ ◆ ⊖

A

32-56

24-#16; 6-#12 for #10 wire

● ◆

A

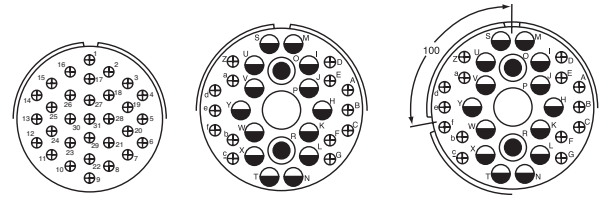
40-1

24-#16; 6-#12

● ⊕ ▼

D

31 CONTACTS



32-31

31-#16

● ◆

A

36-9

14-#16; 14-#12; 2-#8; 1-#4

● ⊕ ◆ ▼

A

36-18

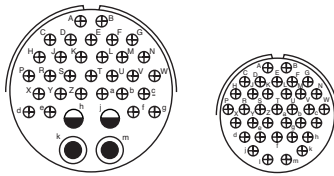
14-#16; 14-#12; 2-#8; 1-#4

● ◆ ▽

A

LAYOUT
 # OF CONTACTS
 SERIES
 SERVICE RATING

34 CONTACTS



36-20

30-#16; 2-#12; 2-#8

● ◆

A

28-15*

35-#16

● ⊕ ◆ ▼ ⊖

A

32-7*

28-#16; 7-#12

● ⊕ ◆ ▣ ▼

I(A, B, H, J); A(all others)

36-15

35-#16

● ⊕ ◆ ▼ ⊖

D(M); A(balance)

36-85

35-#16 for #12 wire

● ◆

A/D

40-35

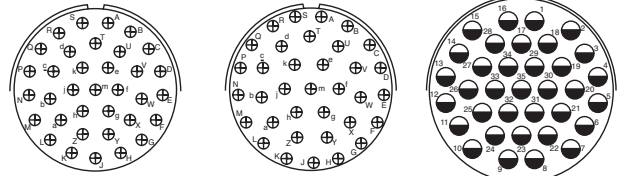
35-#12

● ◆

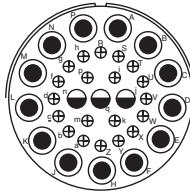
D

LAYOUT
 # OF CONTACTS
 SERIES
 SERVICE RATING

35 CONTACTS



36 CONTACTS



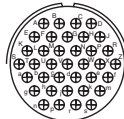
40-64

20-#16; 3-#12; 13-#8 (coax) RG-124/U

● ◆

(coax)

37 CONTACTS



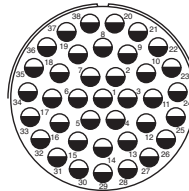
28-21*

37-#16

● ⊕ ◆ ▣ ▼ ⊖

A

38 CONTACTS



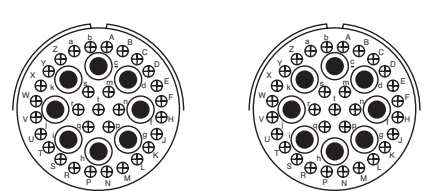
40-AG

38-#12

● ◆

A

39 CONTACTS



36-54

31-#16; 8-#8

● ◆

A

36-55

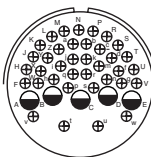
31-#16; 8-#8 for #6 wire

● ◆

A

LAYOUT
 # OF CONTACTS
 SERIES
 SERVICE RATING

42 CONTACTS



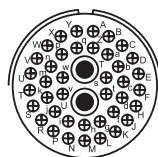
32-53

37-#16; 5-#12

● ◆

I/E

43 CONTACTS



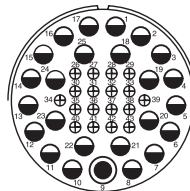
32-59

40-#16; 2-#8 (coax) RG-161/U

● ◆

A (coax)

44 CONTACTS



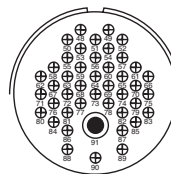
40-AT

18-#16; 24-#12; 1-#8

● ◆

A

44 CONTACTS



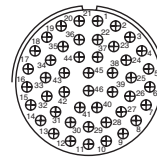
36-74

43-#16; 1-#8 (coax); RG-187B/U

● ◆

A (coax)

46 CONTACTS



32-73

46-#16

● ◆ ▼

A

LAYOUT
 # OF CONTACTS
 SERIES
 SERVICE RATING

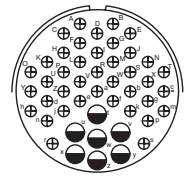
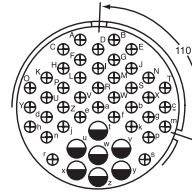
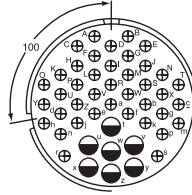
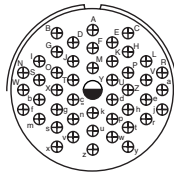
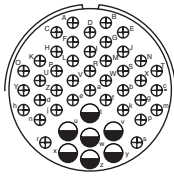
* most popular

LAYOUTS BY NUMBER OF CONTACTS

CONTACT LEGEND ⊕=16 ●=12 ⊙=8 ○=4 ⊗=0
Mating face view of pin inserts

SERIES KEY: AIB (●=GT) AIT (⊕=MS; ⊕=non QPL) 97 (◆=97)
VG95234 (■) MS3450 (▼=MS; ▼=non QPL) Thermocouple (⊕)

47 CONTACTS



LAYOUT
OF CONTACTS
SERIES
SERVICE RATING

36-7*
40-#16; 7-#12
● ⊕ ◆ ▼ ⊕
A

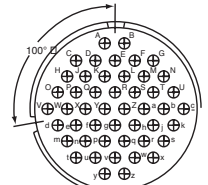
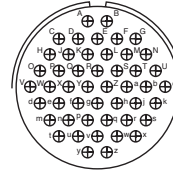
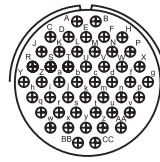
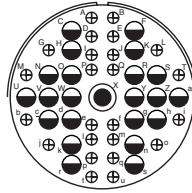
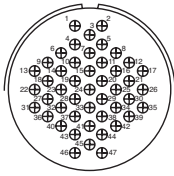
36-8
46-#16; 1-#12
● ⊕ ◆ ▼ ⊕
A

36-16
40-#16; 7-#12
● ◆ ▼
A

36-17
40-#16; 7-#12
● ◆ ▼
A

36-60
40-#16; 7-#12 for #10 wire
● ◆
A

48 CONTACTS



LAYOUT
OF CONTACTS
SERIES
SERVICE RATING

36-76
47-#16
● ◆
A

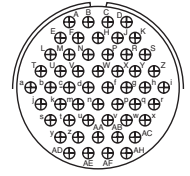
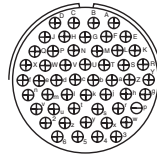
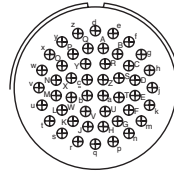
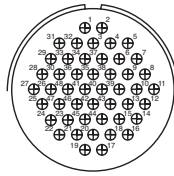
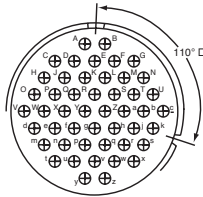
40-9
24-#16; 22-#12; 1-#8
● ⊕ ▼
A

32-48
48-#16
● ◆
I

36-10*
48-#16
● ⊕ ◆ ▼ ⊕
A

36-11
48-#16
● ⊕ ◆ ▼
A

52 CONTACTS



LAYOUT
OF CONTACTS
SERIES
SERVICE RATING

36-12
48-#16
● ⊕ ◆ ▼
A

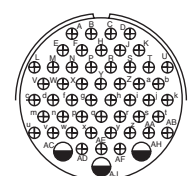
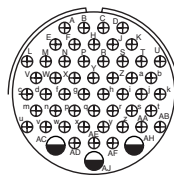
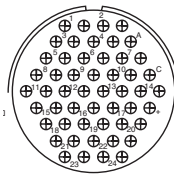
36-75
48-#16 for #14 wire
● ◆
A

36-AF
48-#16
● ◆
A

32-414
52-#16
◆
A

36-52
52-#16
● ⊕ ◆ ▼ ⊕
A

53 CONTACTS



LAYOUT
OF CONTACTS
SERIES
SERVICE RATING

36-403
52-#16
◆
A

36-59
50-#16; 3-#12 for #10 wire
● ◆
A

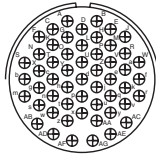
36-71
50-#16; 3-#12
● ◆
A

* most popular

LAYOUTS BY NUMBER OF CONTACTS

CONTACT LEGEND ◊=20 ⊕=16 ⊖=12 ●=8 ○=4 ⊗=0 SERIES KEY: AIB (●=GT) AIT (⊕=MS; ⊖=non QPL) 97 (◊=97)
 Mating face view of pin inserts VG95234 (■) MS3450 (▼=MS; ▽=non QPL) Thermocouple (⊖)

54 CONTACTS

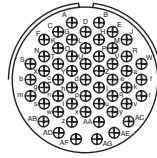


LAYOUT

32-22

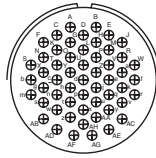
OF CONTACTS
 SERIES
 SERVICE RATING

54-#16
 ● ⊖ ▽
 A



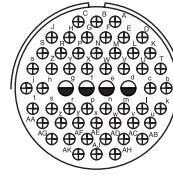
32-64

54-#16
 ● ⊖
 I



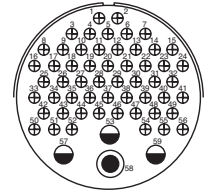
32-AF

55-#16
 ● ⊖
 A



36-66

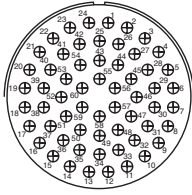
52-#16; 4-#12
 ▽
 A



40-61

55-#16; 3-#12; 1-8
 ● ⊖
 A

60 CONTACTS

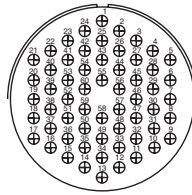


LAYOUT

40-53

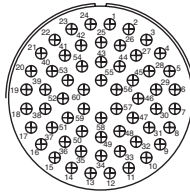
OF CONTACTS
 SERIES
 SERVICE RATING

60-#16
 ● ⊖ ⊖
 A



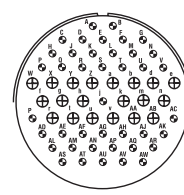
40-62

60-#16
 ● ⊕ ▽
 A



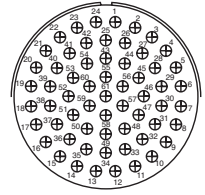
40-85

60-#16 for #14 wire
 ● ⊖
 A



32A69

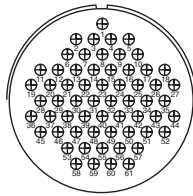
41-#20; 20-#16
 ■
 I



40-63

61-#16 for #14 wire
 ● ⊖
 A

62 CONTACTS

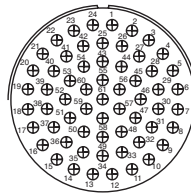


LAYOUT

40-70

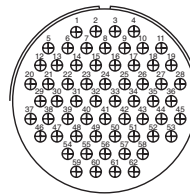
OF CONTACTS
 SERIES
 SERVICE RATING

61-#16
 ● ⊖
 A



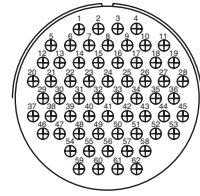
40-73

61-#16
 ● ⊖
 A



40-81

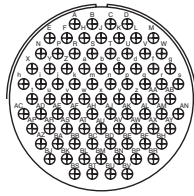
62-#16 for #14 wire
 ● ⊖
 A



40-82

62-#16
 ● ⊖
 A

85 CONTACTS



LAYOUT

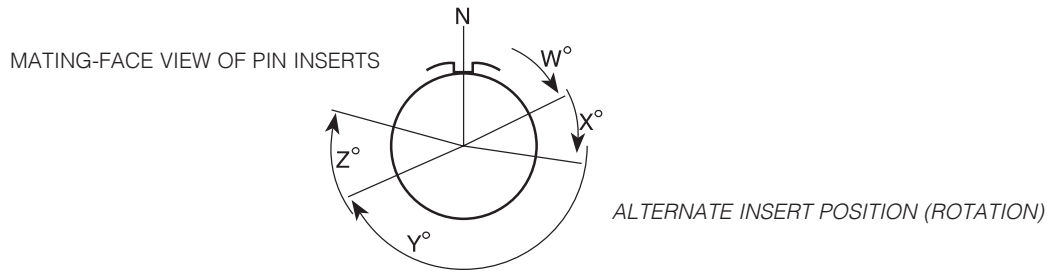
40-56

OF CONTACTS
 SERIES
 SERVICE RATING

85-#16
 ● ⊕ ▼ ⊖
 A

* most popular

LAYOUTS BY SHELL SIZE



SERIES KEY: 97 (◆=97) AIT (⊕=MS; ◆=non QPL) AIB (●=GT) VG95234 (■) MS3450 (▼=MS; ▽=non QPL) Thermocouple (⊖)
 CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	CONTACTS SIZES					DEGREES OF ROTATION				SERVICE RATING								
	97 Series	AIT Series	AIB/GT	VG95234	MS3450	TOTAL	20	16	12		8	4	0	°	W	X	Y	Z
8S-1	◆	⊕			▼	1		1						-	-	-	-	A
10S-2		⊕^			▼	1		1						-	-	-	-	A
10SL-3	◆*	⊕*	●*	■	▼	3		3						-	-	-	-	A
10SL-4	◆*	⊕^*	●	■	▼	2		2						63#	-	-	-	A
10SL-51		◆*	●		▽	2		2					⊖	10SL-4	45°	A=Ir.; B=Con.		
10SL-52		◆*	●		▽	2		2					⊖	10SL-4	45°	A=Cu; B=Con.		
10SL-53		◆*	●		▽	2		2					⊖	10SL-4	45°	A=Al.; B=Ch.		
10SL-54		◆*	●		▽	3		3					⊖	10SL-3	A=Ir.; B=Con.; C=Cu			
10SL-55		◆*	●		▽	3		3					⊖	10SL-3	A=Al.; B=Ch.; C=Cu			
10SL-56		◆*	●		▽	2		2					⊖	10SL-4	A=Al.; B=Ch.			
10SL-57		◆*	●		▽	2		2					⊖	10SL-4	A=Ch.; B=Con.			
10SL-58		◆*	●		▽	3		3					⊖	10SL-3	A=Ch.; B=Al.; C=Cu			
10SL-59		◆*	●		▽	2		2					⊖	10SL-4	A=Ch.; B=Al.			
10SL-60		◆*	●		▽	2		2					⊖	10SL-4	A=Ir.; B=Con.			
10SL-61		◆*	●		▽	2		2					⊖	10SL-4	A=Cu; B=Con.			
10SL-62		◆*	●		▽	3		3					⊖	10SL-3	A=Cu; B=Al.; C=Ir.			
10SL-63		◆*	●		▽	3		3					⊖	10SL-3	A, C=Con.; B=Ch.			
10SL-64		◆*	●		▽	3		3					⊖	10SL-3	A, C=Ch.; B=Al.			
12S-1		◆			▽	2		2						12S-3	100°			A
12S-2	◆	◆			▽	2		2						12S-3	250°			A
12S-3	◆	⊕			▼	2		2						70	145	215	290	A
12S-4		⊕			▼	1		1						-	-	-	-	D
12S-6	◆					2		2					⊖	12S-3	A=Con.; B=Ir.			
12S-51		◆			▽	2		2					⊖	12S-3	315°	A=Ch.; B=Al.		
12S-54		◆			▽	2		2					⊖	12S-3	315°	A = Ir.; B=Con.		
12S-55		◆			▽	2		2					⊖	12S-3	45°	A=Cu; B=Con.		
12S-56		◆			▽	2		2					⊖	12S-3	A=Al.; B=Ch.			
12S-57		◆			▽	2		2					⊖	12S-3	60°	A=Ch.; B=Al.		
12S-58		◆			▽	2		2					⊖	12S-3	120°	A=Ir.; B=Con.		
12S-59		◆			▽	2		2					⊖	12S-3	A=Ir.; B=Con.			
12S-60		◆			▽	2		2					⊖	12S-3	A=Cu; B=Con.			
12S-61		◆			▽	2		2					⊖	12S-3	A=Ch.; B=Con.			
12S-62		◆			▽	2		2					⊖	12S-3	A=Ch.; B=Al.			
12SL844	◆					4		4						-	-	-	-	I
12-5	◆	⊕			▼	1			1					-	-	-	-	D
14S-1	◆	⊕	●		▼	3		3						-	-	-	-	A
14S-2	◆	⊕	●		▼	4		4						-	120	240	-	I
14S-4	◆	⊕^	●			1		1						-	-	-	-	D
14S-5	◆	⊕	●		▼	5		5						-	110	-	-	I

*Pins in receptacle, sockets in plug only ^ 5015 QPL not all configurations #Rotation commercial only, not MS-approved

NOTE: 16S contacts are used in shell sizes 8S, 10S, 10SL, 12S, 14S, & 16S

LAYOUTS BY SHELL SIZE

SERIES KEY: 97 (◆=97) **AIT** (⊕=MS; ⊖=non QPL) **AIB** (●=GT) **VG95234** (■) **MS3450** (▼=MS; ▽=non QPL) **Thermocouple** (⊖°)

CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	97 Series	AIT Series	AIB/GT	VG95234	MS3450	TOTAL	CONTACTS SIZES						⊖°	DEGREES OF ROTATION				SERVICE RATING
							20	16	12	8	4	0		W	X	Y	Z	
14S-6	◆	⊕	●	■	▼	6		6						90#	-	-	-	I
14S-7	◆	⊕	●		▼	3		3						90	180	270	-	A
14S-9	◆	⊕	●		▼	2		2						70	145	215	290	A
14S-10	◆	⊖	●		▽	4		4						14S-2	100°			I
14S-11	◆	⊖	●		▽	4		4						14S-2	250°			I
14S-12	◆	⊖	●		▽	3		3						14S-1	100°			A
14S-13	◆	⊖	●		▽	3		3						14S-1	260°			A
14S-14	◆	⊖	●			4		4						14S-2	100°			I
14S-51		⊖	●		▽	2		2				⊖°	14S-9	90° A=Al.; B=Ch.				
14S-52		⊖	●		▽	4		4				⊖°	14S-2	45° A, B=Cu; C=Al.; D=Ch.				
14S-53		⊖	●		▽	2		2				⊖°	14S-9	90° A=Ir.; B=Con.				
14S-54		⊖	●		▽	6		6				⊖°	14S-6	45° A, C, E=Ir.; B, D, F=Con.				
14S-55		⊖	●		▽	4		4				⊖°	14S-2	45° A, C=Ir.; B, D=Con.				
14S-56		⊖	●		▽	4		4				⊖°	14S-2	45° A=Ir.; B=Con.; C, D=Cu				
14S-57		⊖	●		▽	4		4				⊖°	14S-2	45° A, C=Al.; B, D=Ch.				
14S-58		⊖	●		▽	3		3				⊖°	14S-7	45° A=Al.; B=Ch.; C=Cu				
14S-59		⊖	●		▽	2		2				⊖°	14S-9	90° A=Cu; B=Con.				
14S-60		⊖	●		▽	2		2				⊖°	14S-9	A=Al.; B=Ch.				
14S-61		⊖	●		▽	6		6				⊖°	14S-6	45° A=Al.; B=Ch.; C=Ir.; D=Con.; E, F=Cu				
14S-63		⊖	●		▽	6		6				⊖°	14S-6	A, C= Al.; B, D=Ch.; E=Ir.; F=Con.				
14S-64		⊖	●		▽	4		4				⊖°	14S-2	A, C=Con.; B, D=Cu				
14S-65		⊖	●		▽	6		6				⊖°	14S-6	A, C, E= Cu; B, D, F=Con.				
14S-67		⊖	●		▽	6		6				⊖°	14S-6	A=Al.; B=Ch.; Balance=Cu				
14S-68		⊖	●		▽	4		4				⊖°	14S-2	45° A=Ch.; B=Con.; C, D=Cu				
14S-69		⊖	●		▽	3		3				⊖°	14S-7	A=Con.; B=Ch.; C=Cu				
14S-70		⊖	●		▽	4		4				⊖°	14S-2	A, D=Ch.; B, C=Al.				
14S-71		⊖	●		▽	4		4				⊖°	14S-2	A, B, D=Cu; C=Con.				
14S-72		⊖	●		▽	2		2				⊖°	14S-9	A=Con.; B=Cu				
14S-73		⊖	●		▽	4		4				⊖°	14S-2	A, B=Cu; C=Al.; D=Ch.				
14S-74		⊖	●		▽	4		4				⊖°	14S-2	A, B=Ch.; C, D=Al.				
14S-75		⊖	●		▽	4		4				⊖°	14S-2	A, B=Cu; C, D=Con.				
14S-76		⊖	●		▽	4		4				⊖°	14S-2	A, C=Al.; B, D=Ch.				
14S-77		⊖	●		▽	4		4				⊖°	14S-2	A, D=Al.; B, C=Ch.				
14S-78		⊖	●		▽	2		2				⊖°	14S-9	A=Ch.; B=Al.				
14SA7		⊖	●			7		7					-	-	-	-	A	
14-3		⊕			▼	1			1				-	-	-	-	A	
16S-1	◆	⊕	●	■	▼	7		7					80	-	-	280	A	
16S-3		⊕			▽	1		1					-	-	-	-	B	
16S-4	◆	⊕	●	■	▽	2		2					35	110	250	325	D	
16S-5	◆	⊕	●			3		3					70	145	215	290	A	
16S-6	◆	⊕	●			3		3					90	180	270	-	A	
16S-8	◆	⊕	●		▼	5		5					-	170	265	-	A	
16S-14	◆	⊖	●			3		3					16S-5	110°			A	
16S-15	◆	⊖	●			2		2					16S-4	100°			D	
16S-16	◆	⊖	●			2		2					16S-4	250°			D	
16S-17	◆	⊖	●			3		3					16S-5	250°			A	
16S-52		⊖	●		▽	2		2				⊖°	16S-4	A=Ch.; B= Al.				
16S-54		⊖	●		▽	7		7				⊖°	16S-1	A=Al.; B=C; Balance=Cu				

NOTE: 16S contacts are used in shell sizes 8S, 10S, 10SL, 12S, 14S, & 16S. #Rotation commercial only. Not MS-approved. Not used for 97 series.

LAYOUTS BY SHELL SIZE

SERIES KEY: 97 (◆=97) AIT (⊕=MS; ⊖=non QPL) AIB (●=GT) VG95234 (■) MS3450 (▼=MS; ▽=non QPL) Thermocouple (⊖) CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	CONTACTS SIZES					DEGREES OF ROTATION				SERVICE RATING								
	97 Series	AIT Series	AIB/GT	VG95234	MS3450	TOTAL	20	16	12		8	4	0	°	W	X	Y	Z
16S-55	⊖	●		▽	7		7						⊖	16S-1 A=Con.; Balance=Cu				
16A11			■		2			2						35	110	250	125	A
16SA18	◆	⊖	●		7		7							16S-1	100°			A
16SA19	◆	⊖	●		7		7							16S-1	260°			A
16SA20	◆	⊖	●		7		7							16S-1	110°			A
16SA21	◆	⊖	●		7		7							16S-1	250°			A
16-2		⊕	●	▽	1			1						-	-	-	-	E
16-7	◆	⊕	●	■	▽	3	2		1					80	110	250	280	A
16-9	◆	⊕	●	▼	4		2	2						35	110	250	325	A
16-10	◆	⊕	●	■	▼	3		3						90	180	270	-	A
16-11	◆	⊕	●	▼	2			2						35	110	250	325	A
16-12	◆	⊕	●	■	▼	1				1				-	-	-	-	A
16-13	◆	⊕	●	▼	2			2					⊖	35	110	250	325	A = Ir.; B = Con.
16-52		⊖	●	▽	2			2					⊖	16-11	90° A=Al.; B=Ch.			
16-53		⊖	●	▽	4		2	2					⊖	16-9	70° A=Al.; C=Ch.; B, D=Cu			
16-55		⊖	●	▽	3			3					⊖	16-10	45° A=Al.; B=Ch.; C=Cu			
16-56		⊖	●	▽	2			2					⊖	16-13	90° A=Con.; B=Cu			
16-57		⊖	●	▽	3			3					⊖	16-10	A=Al.; B=Cu; C=Ch.			
16-58		⊖	●	▽	3			3					⊖	16-10	A=Con.; B, C=Cu			
16-59		⊖	●		4			4						80	-	-	280	A
16-60		⊖	●	▽	2			2					⊖	16-13	A=Al.; B=Ch.			
16-62		⊖	●	▽	2			2					⊖	16-11	A=Con.; B=Cu			
18A31	◆	⊖	●		10		10							18-1	110°			A (B,C,F,G) I (all others)
18-1	◆	⊕	●	■	▼	10	10							70	145	215	290	A (B,C,F,G) I (all others)
18-3	◆	⊕	●		2			2						35	110	250	325	D
18-4	◆	⊕	●	▼	4		4							35	110	250	325	D
18-5	◆	⊕	●	▼***	3		1	2						80	110	250	280	D
18-6		⊕	●	▼***	1					1				-	-	-	-	D
18-7		⊕^	●	▽	1				1					-	-	-	-	B
18-8	◆	⊕	●	▼	8		7	1						70	-	-	290	A
18-9	◆	⊕	●	■	▼	7	5	2						80	110	250	280	I
18-10	◆	⊕	●	▼	4			4						-	120	240	-	A
18-11	◆	⊕	●	■	▼	5		5						-	170	265	-	A
18-12	◆	⊕	●	▼	6		6							80	-	-	280	A
18-13	◆	⊕	●	■	▼	4		3	1					80	110	250	280	A
18-14		⊕^		▽	2		1			1				80	110	250	280	A
18-15	◆†	⊕	●	▼***	4			4					⊖	-	120	240	-	A, C=Ir. B, D=Con.
18-16	◆	⊕^	●	▽	1			1						-	-	-	-	C
18-17	◆	⊖	●	▽	7		5	2						18-9	100°			I
18-18	◆	⊖	●	▽	7		5	2						18-9	250°			I
18-19	◆	⊖	●	▽	10		10							80	120	240	-	A
18-20	◆	⊕^	●		5		5							90	180	270	-	A
18-22	◆	⊕^	●	▼	3		3							70	145	215	290	D
18-23	◆	⊖	●	▽	10		10							18-1	100°			A(B,C,F,G) I (all others)
18-24	◆	⊖	●	▽	10		10							18-1	250°			A(B,C,F,G) I (all others)
18-25	◆	⊖	●		2			2						18-3	100°			D
18-26	◆	⊖	●		2			2						18-3	250°			D

† Socket only for 97 Series ^ 5015 QPL not all configurations ***Socket only for MS3450 series ***Pin only for MS3450

NOTE: 16S contacts are used in shell sizes 8S, 10S, 10SL, 12S, 14S, & 16S

LAYOUTS BY SHELL SIZE

SERIES KEY: 97 (◆=97) AIT (◆=MS; ◆=non QPL) AIB (●=GT) VG95234 (■) MS3450 (▼=MS; ▼=non QPL) Thermocouple (⊞)
 CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	97 Series	AIT Series	AIB/GT	VG95234	MS3450	TOTAL	CONTACTS SIZES						⊞	DEGREES OF ROTATION				SERVICE RATING
							20	16	12	8	4	0		W	X	Y	Z	
18-27	◆	◆	●		▼**	3		1	2					18-5	100°			D
18-28	◆	◆	●		▼**	3		1	2					18-5	250°			D
18-29	◆	◆^	●			5	5							90	180	270	-	A
18-30	◆	◆	●			5	5							18-20	110°			A
18-31	◆	◆	●			5	5							18-20	260°			A
18-420	◆					1 HV		1 HV						24 KVdc, 17 KVac				
18-51		◆	●		▼	6	6					⊞	18-12	A=Ir.; B, E=Con.; D=Cu; C, F=Dummy				
18-52		◆	●		▼	5		5				⊞	18-11	A=Ir.; B=Con.; C=Ch.; D=Al.; E=Dummy				
18-53		◆	●		▼	6	6					⊞	18-12	A, D=Ir.; B, E=Con.; C, F=Dummy				
18-54		◆	●		▼	4		4				⊞	18-15	A, C=Al.; B, D=Ch.				
18-56		◆	●		▼	10	10					⊞	18-1	45° A, C, E, G, I=Ir.; B, D, F, H, J=Con.				
18-57		◆	●		▼	6	6					⊞	18-12	45° A, C, E=Al.; B, D, F=Ch.				
18-59		◆	●		▼	6	6					⊞	18-12	45° A, C=Ir.; B, E, F=Con.; D=Cu				
18-60		◆	●		▼	5		5				⊞	18-11	45° A, D=Al.; B, C=Ch.; E=Cu				
18-61		◆	●		▼	6	6					⊞	18-12	A, C=Ir.; B, D=Con.; E=Ch.; F=Al.				
18-62		◆	●		▼	6	6					⊞	18-12	A, B, C=Ir.; D, E, F=Con.				
18-63		◆	●		▼	4		4				⊞	18-15	A, C=Con.; B, D=Cu				
18-65		◆	●		▼	6	6					⊞	18-12	A=Ir.; B=Con.; Balance=Cu				
18-66		◆	●		▼	10	10					⊞	18-1	A, C, E, G, I=Cu; B, D, F, H, J=Con.				
18-67		◆	●		▼	6	6					⊞	18-12	A, C, E=Cu; B, D, F=Con.				
18-68		◆	●		▼	5		5				⊞	18-11	A, D=Al.; B, C=Ch.; E=Cu				
18-69		◆	●		▼	10	10					⊞	18-1	A=Al.; B=Ch.; Balance=Cu				
18-70		◆	●		▼	5		5				⊞	18-11	A=Ir.; B=Con.; C=Ch.; D=Al.; E=Cu				
18-71		◆	●		▼	4		4				⊞	18-15	A=Con.; Balance=Cu				
18-72		◆	●		▼	4		4				⊞	18-15	D=Con.; Balance=Cu				
18-73		◆	●		▼	7	5	2				⊞	18-9	A=Al.; D=Ch.; Balance=Cu				
18-74		◆	●		▼	6	6					⊞	18-12	A=Ch.; B=Al.; D=Ir.; E=Cu; C, F=Con.				
20A9				■		9		9					-	110	250	-	-	D(J), I(all others)
20A16	◆	◆	●			13	13						20-11	182°				I
20A37	◆	◆	●			4		4					20-4	250°				D
20A48				■		19	19						80	280	-	-	-	I
20-2		◆	●	■	▼	1					1		-	-	-	-	-	D
20-3	◆	◆^	●			3		3					70	145	215	290		D
20-4	◆	◆	●		▼	4		4					45	110	250	-		D
20-6	◆	◆^	●			3	3						70	145	215	290		D
20-7	◆	◆	●		▼	8	8						80	110	250	280		A(B,C,F,G) I(all others)
20-8	◆	◆	●	■	▼	6	4	2					80	110	250	280		I
20-9		◆			▼	8	7	1					80	110	250	280		D(H), A(all others)
20-11	◆	◆	●			13	13						-	-	-	-		I
20-12		◆^				2	1			1			80	110	250	280		A
20-14	◆	◆	●		▼	5		3	2				80	110	250	280		A
20-15	◆	◆	●		▼	7		7					80	-	-	280		A
20-16	◆	◆	●		▼	9	7	2					80	110	250	280		A
20-17	◆	◆^	●		▼	6	1	5					90	180	270	-		A
20-18	◆	◆	●		▼	9	6	3					35	110	250	325		A
20-19	◆	◆	●		▼	3			3				90	180	270	-		A
20-20		◆^	●			4		3		1			80	110	250	280		A
20-21	◆	◆	●		▼	9	8	1					35	110	250	325		A

** Socket only for MS3450 series ^ 5015 QPL not all configurations

NOTE: 16S contacts are used in shell sizes 8S, 10S, 10SL, 12S, 14S, & 16S

LAYOUTS BY SHELL SIZE

SERIES KEY: 97 (◆=97) AIT (⊕=MS; ⊖=non QPL) AIB (●=GT) VG95234 (■) MS3450 (▼=MS; ▽=non QPL) Thermocouple (⊖°)
 CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	97 Series	AIT Series	AIB/GT	VG95234	MS3450	TOTAL	CONTACTS SIZES						⊖°	DEGREES OF ROTATION				SERVICE RATING
							20	16	12	8	4	0		W	X	Y	Z	
20-22		⊕	●		▼	6		3		3				80	110	250	280	A
20-23	◆	⊕	●			2				2				35	110	250	325	A
20-24	◆	⊕	●		▼	4		2		2				35	110	250	325	A
20-25	◆	⊖	●			13		13						20-11	100°			I
20-26		⊖	●			19		19						-	80	280	-	A
20-27	◆	⊕	●		▼	14		14						35	110	250	325	A
20-29	◆	⊕	●		▼	17		17						80	-	-	280	A
20-30	◆	⊖	●			13		13						20-11	250°			I
20-32	◆	⊖	●		▽	8		8						20-7	260°			A(B,C,F,G) I(all others)
20-33	◆	⊕	●		▼	11		11						-	-	-	280#	A
20-51		⊖	●			3				3				-	-	-	-	A
20-52		⊖	●		▽	4			4			⊖°	20-4	315°	A=Ir.; B=Con.; C=Ch.; D=Al.			
20-56		⊖	●		▽	8		8				⊖°	20-7	45°	A, B, G, H=Ir.; C, D, E, F=Con.			
20-57		⊖	●			7‡			7‡					-	-	-	-	A
20-58		⊖	●			10		5	5					-	-	-	-	A
20-59		⊖	●			3‡				3‡				-	-	-	-	A
20-60		⊖	●		▽	8		8				⊖°	20-7	45°	D=Ch.; E=Al.; Balance=Cu			
20-61		⊖	●		▽	17		17				⊖°	20-29	45°	A, B, M=Cu; Balance=Con.			
20-62		⊖	●		▽	7			7			⊖°	20-15	80°	A, C, E=Al.; B, D, F=Ch.; G=Cu			
20-64		⊖	●		▽	14		14				⊖°	20-27		A=Al.; C=Ch.; Balance=Cu			
20-65		⊖	●		▽	14		14				⊖°	20-27		A, B, C, D, E, F, G=Ir.; H, I, J, K, L, M, N=Con.			
20-66		⊖	●			6‡		1	5‡					-	-	-	-	A
20-67		⊖	●		▽	9		7	2			⊖°	20-16		H=Al.; I=Ch.; Balance=Cu			
20-68		⊖	●		▽	8		8				⊖°	20-7		A, B, G, H=Con.; C, D, E, F=Cu			
20-69		⊖	●		▽	14		14				⊖°	20-27		A, B, C, D, E, F, G=Cu; H, I, J, K, L, M, N=Con.			
20-70		⊖	●		▽	17		17				⊖°	20-29		A, C, E, G, J, L, N, R, T=Ir.; B, D, F, H, K, M, P, S=Con.			
20-71		⊖	●		▽	17		17				⊖°	20-29		S=Al.; R=Ch.; Balance=Cu			
20-74		⊖	●		▽	17		17				⊖°	20-29		A, C, E, G, J, L, N, R=Ir.; B, D, F, H, K, M, P, S=Con.; T=Cu			
20-75		⊖	●		▽	7			7			⊖°	20-15		G=Al.; Balance=Ch.			
20-77		⊖	●		▽	9		7	2			⊖°	20-16		A=Con.; Balance=Cu			
20-79		⊖	●			8‡		7	1‡					-	-	-	-	D(H); A (all others)
20-80		⊖	●		▽	14		14				⊖°	20-27		A, C, E, G, I, K, M=Cu; B, D, F, H, J, L, N=Con.			
20-81		⊖	●		▽	14		14				⊖°	20-27		A, C, E, G, I, K, M=Ch.; B, D, F, H, J, L, N=Al.			
20-82		⊖	●		▽	17		17				⊖°	20-29		A, C, E, G, J, L, N, R=Al.; B, D, F, H, K, M, P, S=Ch.; T=Cu			
22B22				■		4				4				-	110	250	-	A
22-1	◆	⊕	●			2				2				35	110	250	325	D
22-2	◆	⊕	●	■	▼	3				3				70	145	215	290	D
22-4	◆	⊕	●		▼***	4			2	2				35	110	250	325	A
22-5	◆	⊕	●		▼***	6		4	2					35	110	250	325	D
22-6		⊕	●		▼***	3		1		2				80	110	250	280	D
22-7		⊕	●		▼***	1					1			-	-	-	-	E
22-8	◆	⊕^	●			2			2					35	110	250	325	E
22-9	◆	⊕	●		▽	3			3					70	145	215	290	E
22-10	◆	⊕	●		▽	4		4						35	110	250	325	E
22-11	◆	⊕	●		▽	2		2						35	110	250	325	B
22-12	◆	⊕^	●	■		5		3		2				80	110	250	280	D
22-13	◆	⊕^	●			5		1	4					35	110	250	325	A(A-D) D(E)

#Rotation commercial only, not MS-approved ‡ Reduced contact crimp pot ^ 5015 QPL not all configurations
 ** Socket only for MS3450 series ***Pin only for MS3450 series

LAYOUTS BY SHELL SIZE

SERIES KEY: 97 (◆=97) AIT (⊕=MS; ⊖=non QPL) AIB (●=GT) VG95234 (■) MS3450 (▼=MS; ▽=non QPL) Thermocouple (⊖) CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	CONTACTS SIZES					TOTAL	°	DEGREES OF ROTATION				SERVICE RATING
	20	16	12	8	4			0	W	X	Y	
22-14	◆	⊕	●	■	▼	19		80	110	250	280	A
22-15	◆	⊕	●		▽	6		80	110	250	280	A(A-C, E, F) E(D)
22-16	◆	⊕	●			9		80	110	250	280	A
22-17		⊕^	●		▽	9		80	110	250	280	D(A) A(all others)
22-18	◆	⊕	●		▽	8		80	110	250	280	A(C-E) D(all others)
22-19	◆	⊕	●	▼		14		80	110	250	280	A
22-20	◆	⊕^	●			9		35	110	250	325	A
22-21		⊕^	●	▼		3		80	110	250	280	A
22-22	◆	⊕	●	■	▼	4		-	110	250	-	A
22-23	◆	⊕	●		▼	8		35	-	250	-	D(A-D); A(E-G)
22-24		⊕	●			6		80	110	250	280	D(C, D, E) A(A, B, F)
22-26	◆					7		-	-	-	-	1/8" spacing
22-27	◆	⊕	●	■	▽	9		80	-	250	280	D(J) A(all others)
22-28	◆	⊕^	●			7		80	-	-	280	A
22-30	◆	⊖	●		▽	19		22-14	100°			A
22-31	◆	⊖	●			2		22-11	100°			B
22-32	◆	⊖	●		▽	6		22-5	260°			D
22-33		⊕^	●			7		80	110	250	280	D(A-D) A(E-G)
22-34	◆	⊕				5		80	110	250	280	D
22-36				▽		8		90	-	270	-	D(H); A(all others)
22-57		⊖	●		▽	19		⊖	22-14	45°	A, C, E, G, J, L, N, R=Ir.; B, D, F, H, K, M, P, S=Con.; T, U, V=Cu	
22-60		⊖	●		▽	19		⊖	22-14	45°	U=Al.; N=Ch.; Balance=Cu	
22-62		⊖	●		▽	8		⊖	22-23	60°	A, B, F, G=Al.; C, D, E, H=Ch.	
22-63		⊖	●			12		20	-	-	-	A
22-65		⊖	●			8‡		-	-	-	-	D(H); A(all others)
22-68		⊖	●		▽	14		⊖	22-19	45°	A, C, E, G, J, L, M=Ir.; B, D, F, H, K, P, N=Con.	
22-69		⊖	●		▽	14		⊖	22-19	45°	A, C, E, G, J, L, M=Cu; B, D, F, H, K, P, N=Con.	
22-70		⊖	●		▽	13		-	-	-	-	A
22-71		⊖	●		▽	19		⊖	22-14	V=Al.; U=Ch.; Balance=Cu		
22-72		⊖	●		▽	6		⊖	22-5	B=Al.; E=Ch.; Balance=Cu		
22-73		⊖	●		▽	6		⊖	22-5	E=Al.; B=Ch.; Balance=Cu		
22-74		⊖	●		▽	8		⊖	22-23	A, C, E, G=Ir.; B, D, F, H=Con.		
22-75		⊖	●		▽	8		⊖	22-23	A=Al.; B, D, G, H=Cu; C=Ch.; E=Ir.; F=Con.		
22-76		⊖	●			21		⊖	W=Con.; Balance=Cu			
22-77		⊖	●		▽	14		⊖	22-19	B, D, F, H, J, K, M, P=Cu; A, E, L=Ir.; C, G, N=Con.		
22-78		⊖	●		▽	19		⊖	22-14	A, C, E, G, H, K, M, P, R, T=Con.; Balance=Cu		
22-79		⊖	●		▽	4		⊖	22-10	A, C=Con.; B, D=Cu		
22-80		⊖	●			3‡		-	-	-	-	A
24A35		⊖	●			16		24-7	100°			A
24-2	◆	⊕	●	▼		7		80	-	-	280	D
24-3		⊕^	●			7		80	110	250	280	D
24-4				▽		4		80	110	250	280	D
24-5	◆	⊕	●	▼		16		80	110	250	280	A
24-6	◆	⊕^	●	▽		8		80	110	250	280	D(A,G,H) A(all others)
24-7	◆	⊕	●	▼		16		80	110	250	280	A

^ 5015 QPL not all configurations

LAYOUTS BY SHELL SIZE

SERIES KEY: 97 (◆=97) AIT (⊕=MS; ⊖=non QPL) AIB (●=GT) VG95234 (■) MS3450 (▼=MS; ▽=non QPL) Thermocouple (⊖°)

CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	CONTACTS SIZES					DEGREES OF ROTATION				SERVICE RATING								
	97 Series	AIT Series	AIB/GT	VG95234	MS3450	TOTAL	20	16	12		8	4	0	⊖°	W	X	Y	Z
24-9	◆	⊕	●	■		2					2			35	110	250	325	A
24-10	◆	⊕	●	■	▼	7				7				80	-	-	280	A
24-11	◆	⊕	●	■	▼	9			6	3				35	110	250	325	A
24-12	◆	⊕	●	■	▼	5			3		2			80	110	250	280	A
24-15		⊖	●		▽	16	16							24-5	100°			A
24-16	◆	⊕^	●		▽	7	3	3	1					80	110	250	280	D(A,B,F,G) A(C,D,E)
24-17		⊕^	●			5	3	2						80	110	250	280	D
24-19	◆	⊖	●			12	12							-	-	-	-	A
24-20	◆	⊕	●		▼	11	9	2						80	110	250	280	D
24-21	◆	⊕	●		▽	10	9		1					80	110	250	280	D
24-22	◆	⊕	●		▼	4			4					45	110	250	-	D
24-24					▽	16	16							24-5	250°			A
24-25	◆	⊖	●			8		8						24-6	100°			D(A,G,H) A(all others)
24-26	◆	⊖	●			8		8						24-6	250°			D(A,G,H) A(all others)
24-27	◆	⊕	●		▽	7	7							80	-	-	280	E
24-28	◆	⊕	●	■	▼	24	24							80	110	250	280	I
24-51		⊖	●			5			5					-	108	-	-	A
24-52		⊖	●			1 HV		1HV						30 KVdc, 21 KVac				
24-53		⊖	●			5‡			5‡					-	108	-	-	A
24-56		⊖	●		▽	11	9	2					⊖°	24-20	45°	E=Al.; F=Ch.; Balance=Cu		
24-57		⊖	●		▽	24	24						⊖°	24-28	45°	A, C, J, V, Y, W, K, E, H, U, S, M=Ch.; Balance=Al.		
24-58		⊖	●			13	7	3	3					-	-	-	-	A
24-59		⊖	●			14	7	7						-	-	-	-	A
24-60		⊖	●			7‡			7‡					-	-	-	-	A
24-62		⊖	●		▽	24	24						⊖°	24-28	A, C, E, G=Ir.; B, D, F, H=Con.; R, T=Ch.; S, U=Al.; Balance=Cu			
24-63		⊖	●		▽	24	24						⊖°	24-28	A, C, E, G, J, L, K, N, S, U, W, Y=Cu; B, D, F, H, Q, R, M, P, T, V, X, Z=Con.			
24-64		⊖	●		▽	16	16						⊖°	24-5	A, B, C, D, E, F, G, H=Ir.; J, K, L, M, N, P, R, S=Con.			
24-65		⊖	●			15	4	11						-	-	-	-	A
24-66		⊖	●			7		7						-	-	-	-	D
24-67		⊖	●			19		19						16	-	-	-	I
24-68		⊖	●		▽	24	24						⊖°	24-28	D=Con.; Balance=Cu			
24-71		⊖	●			7‡			7‡					-	-	-	-	A
24-75		⊖	●			7‡			7‡					-	-	-	-	A
24-79		⊖	●			5			5					-	108	-	-	A
24-80		⊖	●		▽	23	23							35	145	240	300	I
24-81		⊖	●			16	14	2					⊖°	24-7	A, C, E, G, I, K, M, N, P=Cu; B, D, F, H, J, L, O=Con.			
24-84		⊖	●			19		19(18)						-	-	-	-	A/Coax
24-96		⊖	●			28	28							65	-	-	-	I
24-AJ		⊖	●			25	25							80	110	250	280	A
28A63				■		28	19	9						-	110	260	-	A
28-1	◆	⊕	●		▼	9		6	3					80	110	250	280	D(A,E,J) A(all others)
28-2	◆	⊕	●		▼	14	12	2						35	110	250	325	D
28-3	◆	⊕	●		▽	3			3					70	145	215	290	E
28-4		⊕^	●		▽	9	7	2						80	110	250	280	E(G,P,S) D(all others)
28-5		⊕^	●		▽	5	2	1		2				35	110	250	325	D
28-6	◆	⊕^	●			3				3				70	145	215	290	D
28-7		⊖	●			2				2				35	110	250	325	D

‡ Reduced contact crimp pot ^ 5015 QPL not all configurations () Number of contacts that are coax

LAYOUTS BY SHELL SIZE

SERIES KEY: 97 (♦=97) AIT (⊕=MS; ⊖=non QPL) AIB (●=GT) VG95234 (■) MS3450 (▼=MS; ▽=non QPL) Thermocouple (⊖)

CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	97 Series	AIT Series	AIB/GT	VG95234	MS3450	TOTAL	CONTACTS SIZES						⊖	DEGREES OF ROTATION				SERVICE RATING
							20	16	12	8	4	0		W	X	Y	Z	
28-8	♦	⊕^	●		▽	12		10	2					80	110	250	280	E(L, M) D(B) A(all others)
28-9	♦	⊕	●		▼	12		6	6					80	110	250	280	D
28-10	♦	⊕	●		▼	7			3	2	2			80	110	250	280	D(G) A(all others)
28-11	♦	⊕	●	■	▼	22		18	4					80	110	250	280	A
28-12	♦	⊕	●		▼	26		26						90	180	270	-	A
28-13	♦	⊖	●		▽	26		26					28-12	100°				A
28-15	♦	⊕	●		▼	35		35						80	110	250	280	A
28-16	♦	⊕	●		▽	20		20						80	110	250	280	A
28-17	♦	⊕	●		▼	15		15						80	110	250	280	A(A-L) B(R) D(M-P)
28-18	♦	⊕	●		▽	12		12						70	145	215	290	C(M) D(G, H, J, K, L) A(A, B) I(C, D, E, F)
28-19	♦	⊕	●		▽	10		6	4					80	110	250	280	A(C, E, G, J, K, L) B(H, M) D(A, B)
28-20	♦	⊕^	●	■	▼	14		4	10					80	110	250	280	A
28-21	♦	⊕	●	■	▼	37		37						80	110	250	280	A
28-22		⊕^	●	■	▼	6		3			3			70	145	215	290	D
28-51		⊖	●			12			12					80	135	195	-	A
28-53		⊖	●		▽	22		18	4				⊖	28-11	45°	J, L=Al.; K, M=Ch.; Balance=Cu		
28-58		⊖	●		▽	14		4	10				⊖	28-20	45°	A, C, E, G, K, M=Al.; B, D, F, H, L, N=Ch.; J, P=Cu		
28-59		⊖	●			17		10	7					-	-	-	-	A
28-61		⊖	●		▽	37		37					⊖	28-21	45°	A, C, J, Z, m, r, n, a, K, F, H, X, k, h, T, M, N, d=Ir.; Balance=Con.		
28-63		⊖	●		▽	14		4	10				⊖	28-20	45°	A, C, E, G, J=Al.; B, D, F, H, P=Ch.; Balance=Cu		
28-64		⊖	●		▽	35		35					⊖	28-15	A, d=Al.; B, j=Ch.; C, D, E, F, G, N, P, R, S, H, J, K, L, M, W, X, Y, Z=Con.; Balance=Cu			
28-65		⊖	●		▽	26		26					⊖	28-12	A, C, E, G, J, L, N, R, T, V=Ir.; X, Z=Al.; B, D, F, H, K, M, P, S, U, W=Con.; Y, a=Ch.; b, d=Cu			
28-66		⊖	●			16			14	2				50	100	165	-	A
28-67		⊖	●		▽	20		20					⊖	28-16	U=Con.; Balance=Cu			
28-68		⊖	●		▽	35		35					⊖	28-15	45° T=Al.; U=Ch.; Balance=Cu			
28-69		⊖	●		▽	22		18	4				⊖	28-11	G=Al.; R=Ch.; Balance=Cu			
28-70		⊖	●		▽	22		18	4				⊖	28-11	A=Al.; B=Ch.; Balance=Cu			
28-72		⊖	●			3					3(3)			-	-	-	-	Coax
28-74		⊖	●			16‡		9			7‡			70	133	227	290	A
28-75		⊖	●			16‡		9			7‡			70	133	227	290	A
28-79		⊖	●			16		9			7			70	133	227	290	A
28-82		⊖	●			6			4	2				-	-	-	-	D
28-84		⊖	●			9				9				45	157	90	135	A
28-77		⊖	●		▽	22		18	4				⊖	28-11	J=Con.; Balance=Cu			
28-81		⊖	●		▽	37		37					⊖	28-21	A, D, S, Z, n, s=Ir.; B, J, K, f, g, r=Con.; G, L, P, b, e, j=Al.; F, H, T, X, h, k=Ch.; Balance=Cu			
28-AY		⊖	●			9		5			4			80	110	250	280	A
32A29		⊖	●			23		16	2	3	2			32-6	250°			A
32A30		⊖	●			5			3			2		32-1	100°			E(A) D(all others)
32A69				■		61	41	20						-	110	250	-	I
32-1		⊕		■	▼	5			3			2		80	110	250	280	E(A) D(all others)
32-2		⊕	●		▽	5		2			3			70	145	215	290	E

‡ Reduced contact crimp pot ^ 5015 QPL not all configurations () Number of contacts that are coax

LAYOUTS BY SHELL SIZE

SERIES KEY: 97 (◆=97) AIT (⊕=MS; ⊕=non QPL) AIB (●=GT) VG95234 (■) MS3450 (▼=MS; ▽=non QPL) Thermocouple (⊖)

CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	97 Series	AIT Series	AIB/GT	VG95234	MS3450	TOTAL	CONTACTS SIZES					⊖	DEGREES OF ROTATION				SERVICE RATING	
							20	16	12	8	4		0	W	X	Y		Z
32-3		⊕	●	■	▽	9		4	2		2	1		80	110	250	280	D
32-4		⊕^	●			14		12	2					80	110	250	280	A(F, J, K, N) D(all others)
32-5	◆	⊕	●			2						2		35	110	250	325	D
32-6	◆	⊕	●	■	▼	23		16	2	3	2			80	110	250	280	A
32-7	◆	⊕	●	■	▼	35		28	7					80	125	235	280	I(A, B, H, J) A(all others)
32-8	◆	⊕	●			30		24	6					80	125	235	280	A
32-9		⊕^	●		▼	14		12			2			80	110	250	280	D
32-10		⊕^	●			7		3		2	2			80	110	250	280	E(A, F) B(G) D(E) A(D)
32-12		⊕^	●			15		10	5					80	110	250	280	A(C, D, E, F, G) D(all others)
32-13	◆	⊕	●		▼	23		18	5					80	110	250	280	D
32-14		⊕				13			13					65	130	230	295	D
32-15		⊕^	●		▼	8			6			2		35	110	250	280	D
32-16		⊕	●		▽	23		16	2	3	2			32-6	100°			A
32-17	◆	⊕	●		▼	4					4			45	110	250	-	D
32-19		⊕	●		▽	5			3			2		32-1	260°			E(A) D(all others)
32-20		⊕	●		▽	23		16	2	3	2			32-6	260°			A
32-22		⊕	●		▽	54		54						80	110	250	280	A
32-25		⊕	●			25			25					60	125	-	-	A
32-31		⊕	●			31		31						80	125	215	280	A
32-48		⊕	●			48		48						80	-	-	-	I
32-51		⊕	●			30		24	6				⊖	32-8	90°M=Ch.; N=Al.; Balance=Cu			
32-52		⊕	●			8			6			2		32-15	90°			D
32-53		⊕	●			42		37	5					-	-	-	-	IE
32-55		⊕	●			30		24	6				⊖	32-8	125°M, N=Ch.; O, P=Al.; Balance=Cu			
32-56		⊕	●			30‡		24	6‡					-	-	-	-	A
32-57		⊕	●			8			6			2(2)		-	-	-	-	Coax
32-58		⊕	●			.4					4(4)			-	-	-	-	Coax
32-59		⊕	●			42		40		2(2)				-	-	-	-	Coax
32-60		⊕	●			23			15	8(8)				72	145	215	200	A/Coax
32-62		⊕	●			23		16	2	3(2)	2			-	-	-	-	A/Coax
32-63					▼	5					5			-	-	-	-	D
32-64		⊕	●			54		54						80	100	110	250	I
32-68		⊕	●			16		12			4(4)			30	-	-	-	A/Coax
32-73		⊕	●		▼	46		46						36	-	-	-	A
32-75		⊕	●			9			2	7(7)				-	-	-	-	Coax
32-76		⊕	●			19			19					44	147	254	-	A
32-79		⊕	●			5				1	4			-	-	-	-	D
32-82		⊕	●			16		12			4			30	-	-	-	A
32-414	◆					52		52						-	-	-	-	A
32-AF		⊕	●			55		55						80	110	250	280	A
36-1	◆	⊕^	●			22		18	4					80	110	250	280	D
36-3		⊕^	●	■	▼	6			3			3		70	145	215	290	D
36-4		⊕^	●			3						3		70	145	215	290	A(B, C) D(A)
36-5	◆	⊕	●	■	▼	4						4		-	120	240	-	A
36-6	◆	⊕	●	■	▼	6					4	2		35	110	250	325	A
36-7	◆	⊕	●		▼	47		40	7					80	110	250	280	A
36-8	◆	⊕	●		▼	47		46	1					80	110	250	280	A

‡ Reduced contact crimp pot ^ 5015 QPL not all configurations () Number of contacts that are coax

LAYOUTS BY SHELL SIZE

SERIES KEY: 97 (◆=97) **AIT** (⊕=MS; ⋄=non QPL) **AIB** (●=GT) **VG95234** (■) **MS3450** (▼=MS; ▽=non QPL) **Thermocouple** (⊖)

CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	97 Series	AIT Series	AIB/GT	VG95234	MS3450	TOTAL	CONTACTS SIZES						⊖	DEGREES OF ROTATION				SERVICE RATING
							20	16	12	8	4	0		W	X	Y	Z	
36-9	◆	⊕	●		▼	31		14	14	2	1			80	125	235	280	A
36-10	◆	⊕	●	■	▼	48		48						80	125	235	280	A
36-11	◆	⋄	●		▽	48		48						36-10 100°				A
36-12	◆	⋄	●		▽	48		48						36-10 250°				A
36-13		⊕^	●			17		15	2					80	110	250	280	E(N,P,Q) A(all others)
36-14		⊕^	●			16		6	5	5				90	180	270	-	D
36-15	◆	⊕	●		▼	35		35						60	125	245	305	D(M) A(all others)
36-16		⋄	●		▽	47		40	7					36-7 100°				A
36-17		⋄	●		▽	47		40	7					36-7 250°				A
36-18		⋄	●		▽	31		14	14	2	1			36-9 100°				A
36-20		⋄	●			34		30	2	2				-	-	-	-	A
36-21		⋄	●		▽	31		14	14	2	1			36-9 260°				A
36-22		⋄	●			22			22					-	-	-	-	D
36-51		⋄	●			4					2	2		-	127	-	-	D
36-52		⊕^	●		▼	52		52						72	144	216	288	A
36-53		⋄	●		▽	47		40	7				⊖	36-7 45° u, v, w=Al.; x, y, z=Ch.; Balance=Cu				
36-54		⋄	●			39		31		8				-	-	-	-	A
36-55		⋄	●			39‡		31		8‡				-	-	-	-	A
36-56		⋄	●		▽	48		48					⊖	36-10 A, C, E, G, L, J, H, P, R, T, V, X, Z, b, d, f, h, k, q, n, m, u, w, y=Con.; Balance=Cu				
36-59		⋄	●			53‡		50	3‡					-	-	-	-	A
36-60		⋄	●			47‡		40	7‡					-	-	-	-	A
36-61		⋄	●		▽	35		35					⊖	36-15 A, C, E, J, K, L, M, N, P, R, T, V, f, X, Y, h, j, c=Con.; Balance=Cu				
36-62		⋄	●		▽	48		48					⊖	36-10 A, C, E=Al.; B, D, F=Ch.; Balance=Cu				
36-64		⋄	●			4						4(4)		-	-	-	-	Coax
36-65		⋄	●			4						4(4)		-	-	-	-	Coax
36-66					▽	56		52	4					110	250	260	280	A
36-71		⋄	●			53		50	3					-	-	-	-	A
36-73		⋄	●			7					7(7)			81	279	-	-	Coax
36-74		⋄	●			44		43	1(1)					-	-	-	-	A
36-75		⋄	●			48‡		48‡						-	-	-	-	A
36-76		⋄	●			47		47						-	-	-	-	A
36-77		⋄	●			7					7			81	279	-	-	D
36-78		⋄	●			14		2		12				35	106	254	325	A
36-79		⋄	●			20			20					30	110	250	330	A
36-80		⋄	●			20‡			20‡					30	110	250	330	A
36-82		⋄	●		▽	52		52					⊖	36-52 v, g=Ir.; p, y, c=Con. x=Ch.; Balance=Cu				
36-83		⋄	●			7					7(7)			81	279	-	-	Coax
36-85		⋄	●			35‡		35‡						-	-	-	-	A/D
36-403	◆					52		52						-	-	-	-	A
36-57		⋄	●		▽	47		46	1				⊖	36-8 W=Al.; f=Ch.; Balance=Cu				
36-58		⋄	●		▽	35		35					⊖	36-15 H=Al.; G=Ch.; Balance=Cu				
36-AF		⋄	●			48		48						65	-	-	-	A
40-1		⊕	●		▼	30		24	6					65	130	235	300	D
40-2					▽	23		23						80	110	250	280	D
40-3					▽	23		18	4		1			80	110	250	280	D

‡ Reduced contact crimp pot ^ 5015 QPL not all configurations () Number of contacts that are coax

LAYOUTS BY SHELL SIZE

SERIES KEY: 97 (◆=97) AIT (⊕=MS; ◆=non QPL) AIB (●=GT) VG95234 (■) MS3450 (▼=MS; ▽=non QPL) Thermocouple (⊖)
 CONTACT METALLURGY KEY: Alumel (Al.) Chromel (Ch.) Constantan (Con.) Copper (Cu) Iron (Ir.)

LAYOUT	97 Series	AIT Series	AIB/GT	VG95234	MS3450	TOTAL	CONTACTS SIZES						⊖	DEGREES OF ROTATION				SERVICE RATING
							20	16	12	8	4	0		W	X	Y	Z	
40-4				▽	23		16	2	3	2			80	110	250	280	D	
40-5##				▽	15			6	4	2	3		80	110	250	280	A	
40-5	◆	●			5						5		33	-	-	270	A	
40-6				▽	26		24	1			1		80	110	250	280	D	
40-7				▽	22		18	2			2		80	110	250	280	P,Q,U,V,W,X=A; Bal=D	
40-9	⊕	●		▼	47		24	22	1				65	125	225	310	A	
40-10	⊕^	●			29		16		9	4			65	125	225	310	A	
40-35	◆	●			35			35					70	130	230	290	D	
40-53	◆	●			60		60						80	110	250	280	A	
40-56	⊕	●		▼	85		85						72	144	216	288	A	
40-57	◆	●			4						4		30	150	-	-	E	
40-58	◆	●		▽	85		85					⊖	40-56 A, C, E, H, K, M, P, S, U, W, Y, a, c, f, h, j, m, p, r, t, v, x, z, AB, AD, AF, AJ, AL, AN, AP, AS, AU, AW, AY, BA, BC, BE, BH, BK, BM, BP, BS, BU=Ir.; Balance=Con.					
40-59	◆	●		▽	85		85					⊖	40-56 B=Ch.; C=Con.; Balance=Cu					
40-61	◆	●			59		55	3	1				-	-	-	-	A	
40-62	⊕	●		▽	60		60						30	130	220	290	A	
40-63	◆	●			61‡		61‡						-	-	-	-	A	
40-64	◆	●			36		20	3	13(13)				-	-	-	-	Coax	
40-66	◆	●			4						4(4)		-	-	-	-	Coax	
40-67	◆	●			11		1			10(10)			-	-	-	-	A/Coax	
40-68	◆	●			21			21					-	-	-	-	A	
40-70	◆	●			61		61						-	-	-	-	A	
40-72	◆	●			11		1			10(10)			-	-	-	-	A/Coax	
40-73	◆	●			61		61						-	-	-	-	A	
40-74	◆	●			6			1		1(1)	4(4)		-	-	-	-	A/Coax	
40-75	◆	●			5			1			4		-	-	-	-	E	
40-77	◆	●			60		60					⊖	40-56 55, 60=Ir.; 57, 58, 59=Con.; 56=Ch.; Balance=Cu					
40-78	◆	●			60			60				⊖	40-53 50 51=Ir.; 27, 28, 29, 31, 32, 34, 36, 37=Con.; 25, 39, 40, 41=Al 43,44,45, 46, 47, 48, 49, 52, 53, 54=Ch.; Balance=Cu					
40-80	◆	●			11		1			10			72	144	210	288	A	
40-81	◆	●			62‡		62‡						-	-	-	-	A	
40-82	◆	●			62		62						-	-	-	-	A	
40-85	◆	●			60‡		60‡						-	-	-	-	A	
40-86	◆	●			4						4(4)		-	-	-	-	E/Coax	
40-87	◆	●			7				7				37	74	285	322	D	
40-AD	◆	●			8			4		4			45	-	-	-	A	
40-AG	◆	●			38			38					37	74	285	322	A	
40-AT	◆	●			43		18	24	1				80	110	250	280	A	
40-AV	◆	●			3						3#2/0		90	180	270	-	D	

‡ Reduced contact crimp pot ^ 5015 QPL not all configurations () Number of contacts that are coax

AIB/GT SERIES CONNECTORS

GT C 00 A 36-5 P W- (002)

SERIES

GT Circular connectors with bayonet coupling

CONTACT STYLE/INSERT

C = Crimp
S = Solder
CY = Crimp with Viton®
SY = Solder with Viton®
CL = Crimp with low-smoke/flame-retardant inserts
SL = Solder with low-smoke/flame-retardant inserts

SHELL STYLE

00 Wall-mount receptacle
01 Inline receptacle
02 Box-mount receptacle
020 Box-mount receptacle with accessory threads
030 Square flange receptacle - rear panel mount
(most popular)
05 Dummy receptacle
06 Straight plug (most popular)
062 Straight plug with deep-serrated coupling nut
064 Panel-mounted plug with heavy-duty coupling nut
065 Straight plug with long heavy-duty coupling nut
07 Jam nut receptacle - rear panel mount
070 Jam nut receptacle with accessory threads
08 90° angle plug
TB Thru-bulkhead

MATEABILITY WITH IDENTICAL CONTACT ARRANGEMENTS

CONNECTOR STYLE	MATEABLE WITH STYLE
GT00	GT06/062/064/065/08
GT01	GT06/062/064/065/08
GT02	GT06/062/064/065/08
GT020	GT06/062/064/065/08
GT030	GT06/062/064/065/08
GT06/062/064/065	GT00/01/02/020/03/030/05/070/TB
GT07/070	GT06/062/064/065/08
GT08	GT00/01/02/020/03/030/05/070/TB
GTTB	GT06/062/064/065/08

*Viton® is a registered trademark of DuPont DOW Elastomers

CONNECTOR SHELL VARIATIONS

Omit for standard olive drab with silver plated contacts
G96 Black anodized
014 Olive drab cadmium plate, nickel base
A24 Gold/nickel-plated contacts
023 Electroless nickel (RoHS with crimp only)
025 Black alloy (RoHS with crimp only)
027 Conductive black alloy (RoHS with crimp only)
024 Green zinc
B30 Gold
RDS Radsok power contacts 8, 4 & 0 socket contact only
116 Less pre-tinned solder cups
472 116 & 025 mod codes (RoHS)
548 116 & 023 mod codes (RoHS)
553 116 & 027 mod codes (RoHS)

ALTERNATE INSERT ROTATION

W, X, Y, and Z designate that the insert is rotated in its shell from a normal position. No letter required for normal (no rotation) position.

See → pages 83-93.

CONTACT STYLE

P pin contacts
S socket contacts

SHELL SIZE & LAYOUT

See → pages 72-82.

CONNECTOR CLASS

A General-duty, threaded backshell, no cable clamp, no grommet
AF General-duty, threaded backshell, cable clamp, no grommet
F General-duty, threaded backshell, cable clamp, with grommet
CF General-duty, threaded endbell, gland-seal cable clamp, no grommet
CFZ General-duty, threaded endbell, gland-seal cable clamp, with grommet
G One-piece, heat shrink endbell adaptor, with grommet (use with heat shrink boot – see Accessories).
→ pages 490-491
G2 Two-piece, heat shrink endbell adaptor, with grommet (use with heat shrink boot – see Accessories).
→ pages 490-491
LC Long-threaded backshell, gland-seal cable clamp, with grommet, and basket-weave cord grip (please call with cable O.D.)
LCF Long-threaded endbell, gland-seal cable clamp, no grommet
LCFZ Long-threaded endbell, gland-seal cable clamp, with grommet
R General-duty, threaded backshell, no cable clamp, with grommet
RV General-duty, short backshell, with grommet (may be used with heat shrink boot – see Accessories).
→ pages 490-491
CFGG General-duty, threaded endbell, gland-seal cable clamp, no grommet, rubber-covered coupling nut (shell styles 06 and 08 only)
PP Panel plug, only for shell styles 06 and 064
LT Long back shell for metal core conduit, with grommet (please call with conduit O.D.)
PFC For plastic, flexible conduit (please call with conduit O.D.) → see pages 496
SL Long backshell for use with PG gland-seal style cord grip (please call with cable O.D.)

AIBC/ACA-B SERIES CONNECTORS

To more easily illustrate ordering procedure, part number ACA3106E181SXB-F80 is shown as follows:

ACA 3106 E 18 1 S X B - F80

SERIES

ACA Circular Connector Family

SHELL STYLES

- 3100 - Wall-mount receptacle with rear accessory threads for front mounting through holes in flange
- 3101 - Cable-connecting receptacle with rear accessory threads
- 3102 - Front-mount box receptacle no rear accessory threads through holes in flange
- 3103 - Rear-mount box receptacle with rear accessory threads through holes in flange
- 3106 - Plug straight
- 3107A - Jam nut receptacle rear mount, no rear accessory threads
- 3108 - Plug with 90 degree endbell

CONNECTOR CLASS

- E Environmental with resilient insulator and endbell with clamp and bushing
- F Environmental with resilient insulator and endbell with rear accessory threads
- G Two-piece backshell for heat shrink boots
- R Environmental with resilient insulator and shortened lightweight endbell without cable clamp

SHELL SIZE

10SL, 14S, 16S, 16, 18, 20, 22, 24, 28, 32, and 36

CONNECTOR MODIFICATION

- 01 - Metric crimp contacts
 - 116 - Less solder filled contacts
 - F80 - AWG crimp contacts
 - A176- Gold-plated contacts
 - A23 - Electroless nickel plating shells
 - A232- Black zinc cobalt-plated shells
 - F42 - Less grommet, endbell & sleeve (*ferrule*)
 - F0 - Less contacts (*ordered separately*)
 - RFI - Grounding spring on barrel (*3106 & 3108*)
 - T00 - Metric threaded holes in flange (*3100, 3102, 3103 only*)
- Contact us for other modifications

REVERSE BAYONET COUPLING

ALTERNATE ROTATION

W, X, Y, and Z
 No suffix required for normal position
 ⇨ See pages 83-93 for valid alternate insert position (*rotation*)

CONTACTTYPE

- P - Pin
- S - Socket

CONNECTOR ARRANGEMENT

⇨ See pages 72-82 for layouts by number of contacts

MATEABILITY WITH IDENTICAL CONTACT ARRANGEMENTS

CONNECTOR STYLE	MATEABLE WITH STYLE
ACA 3100	ACA3106/ ACA3108
ACA 3101	ACA3106/ ACA3108
ACA 3102	ACA3106/ ACA3108
ACA 3103	ACA3106/ ACA3108
ACA 3105	ACA3106/ ACA3108
ACA 3106	ACA3101/ ACA3102/ ACA3103
ACA 3108	ACA3101/ ACA3102/ ACA3103

Use the AIB/GT Series part numbering system on ⇨ pages 70-71 whenever possible.

VG95234 NATO SPECIFICATIONS

VG95234- A 20-29 P 1 N

VG SPEC PREFIX _____

SHELLSTYLE _____

See chart below

SHELL SIZE - LAYOUT _____

⇒ See pages 72-82.

CONTACT STYLE _____

P = Pin contacts
S = Socket contacts

TERMINATION _____

1 = AWG crimp
Blank = metric crimp

POLARIZATION _____

⇒ See pages 83-93.

SHELLSTYLE

Mates with	PLUGS
	<ul style="list-style-type: none"> D Straight plug with cable clamp E Right angle plug with cable clamp E1 Right angle plug for conduit termination G Straight plug with heat shrink endbell H Straight plug for conduit termination K Right angle plug for conduit termination with grounding fingers L Straight plug for conduit termination with grounding fingers M Straight plug with shielded heat shrink endbell and grounding fingers R1 Straight plug with shielded heat shrink endbell and grounding fingers T Straight plug with heat shrink endbell and grounding fingers
	RECEPTACLES
	<ul style="list-style-type: none"> A Front panel mount box receptacle B1 Rear panel mount box receptacle, metric mounting holes B2 Rear panel mount box receptacle, through mounting holes F In-line receptacle with cable clamp J1 Rear panel mount wall receptacle with cable clamp, metric mounting holes J2 Rear panel mount wall receptacle with cable clamp, through mounting holes N1 Rear panel mount wall receptacle with shielded heat shrink endbell, metric mounting holes N2 Rear panel mount wall receptacle with shielded heat shrink endbell, through mounting holes S1 Rear panel mount wall receptacle with heat shrink endbell, metric mounting holes S2 Rear panel mount wall receptacle with heat shrink endbell, through mounting holes U1 Rear panel mount wall receptacle with heat shrink endbell, metric mounting holes U2 Rear panel mount wall receptacle with heat shrink endbell, through mounting holes V In-Line receptacle with conduit termination

VG95234 SHELL STYLES

<p>VG95234 STYLE A</p>	<p>VG95234 STYLE B1/B2</p>	<p>VG95234 STYLE D</p>	<p>VG95234 STYLE E</p>
			
<p>VG95234 STYLE F</p>	<p>VG95234 STYLE G</p>	<p>VG95234 STYLE H</p>	<p>VG95234 STYLE J1/J2</p>
			
<p>VG95234 STYLE K</p>	<p>VG95234 STYLE L</p>	<p>VG95234 STYLE M</p>	<p>VG95234 STYLE N1/N2</p>
			
<p>VG95234 STYLE R1</p>	<p>VG95234 STYLE S1/S2</p>	<p>VG95234 STYLE T</p>	<p>VG95234 STYLE U1/U2</p>
			