

Amphenol®



ACA-B and GT Series Reverse Bayonet Coupling Connectors

Amphenol® ACA-B Connectors

with reverse bayonet coupling



Features of the Amphenol® ACA-B Reverse Bayonet Coupling Connectors with SAE AS50151 insert patterns:

- Quick positive coupling
- Audible and tactile indication of full coupling
- Waterproof - IP67 rated
- No lockwiring required
- High shock and vibration capabilities
- Inserts available in Neoprene
- Available in both crimp and solder terminations
- Contacts available in gold and silver plating
- Numerous finishes available
- Zinc alloy plating (cadmium free) available
- Rugged construction
- Intermateable with existing VG95234 connectors
- 500 couplings minimum
- Up to 50% more ampacity with the use of RADSOK® socket contacts. Consult Amphenol Industrial Operations for more information or see Amphenol® Amphe-Power Connectors with RADSOK® Technology, SL-391 (online at www.amphenol-industrial.com).
- Operating temperature range: -55°C to 125°C

RoHS Compliant Product
Available – Consult
Amphenol Industrial Operations.



The ACA-B is designed for commercial and industrial environments requiring a rugged bayonet style connector for heavy duty power and signal applications.

A comprehensive selection of insert arrangements and accessory hardware configurations are featured to accommodate heavy-duty, commercial wire and cable.

ACA-B is manufactured in accordance with SAE AS50151 and VG95234. The insulators are made of high quality polychloroprene material and can withstand temperatures of -55 to +125 degrees C. The rugged shell is made from aluminum alloy and plated with a variety of finishes to meet any application. Contacts are machined from copper alloy or brass and can be plated with gold or silver.

Common applications include automation, machine tool, robotics, instrumentation, process control, material handling, and test and measurement.



**ACA-B
Connector
Classes**

Amphenol® ACA-B Connectors

how to order, connector intermateability

Part Number System (example part number shown)							
<u>ACA</u>	<u>3101</u>	<u>E</u>	<u>10SL-3</u>	<u>P</u>	<u>W</u>	<u>B</u>	<u>(F80)</u>
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>

1. Connector Series

ACA designates Amphenol® ACA-B Reverse Bayonet Series

2. Shell Style

- 3101 - Cable connecting receptacle
- 3102 - Box mount receptacle (Class E only, see sect. 3)
- 3103 - Wall mount receptacle for rear panel mounting
- 3106 - Straight plug
- 3107 - Jam nut receptacle - rear panel mount
(Class A only, see sect. 3)
- 3108 - 90° angle plug

3. Connector Class

- A Environmental, no rear threads (Applies to 3107 only)
- E Environmental resisting, with grommet seal and strain relief backshell
- F Environmental resisting, with grommet seal and solid backshell with rear accessory threads
- G Backshell for heat shrink termination
- R Environmental resisting with lightweight endbell

4. Shell Size and Insert Arrangement

See pages 48-50 for insert availability charts, and pages 55-77 for insert pattern drawings.

5. Contact Style

P designates pin contacts
S designates socket contacts
Note: standard contacts are silver plated. Consult Connector Modification for ordering gold plated contacts.

6. Alternate Position

W, X, Y and Z - See page 51.
No suffix required for normal position.

7. Designation for Reverse Bayonet

B designates Reverse Bayonet coupling shells

8. Connector Modification

Omit for standard olive drab connectors with solder type silver plated contacts.

For a modification as listed below, add suffix in parenthesis to the end of the part number. Consult Amphenol Industrial Operations for further description or assistance.

- (RDS) with RADSOK® contacts (crimp sockets only)*
- (F80) with AWG crimp contacts
- (FO) less contacts. (contacts are to be ordered separately)
- (A176) gold contacts
- (T00) metric threads in flange holes
- (RFI) grounded - plug only
- (F42) less grommet and backshell
- (F85) less sleeve and grommet
- (A23) electroless nickel plating
- (A232) with black zinc cobalt plating
- (072) gray zinc nickel **NEW**

* Consult page 54 for RADSOK® Technology Advantages.

MATEABILITY WITH IDENTICAL CONTACT ARRANGEMENTS

Connector Style	Mateable with Style
ACA3101	ACA 3106, 3108
ACA3102	ACA 3106, 3108
ACA3103	ACA 3106, 3108
ACA3106	ACA 3101, 3102, 3103, 3107
ACA3107	ACA 3106, 3108
ACA3108	ACA 3101, 3102, 3103, 3107

This catalog is on the Amphenol website:
www.amphenol-industrial.com.

See www.amphenol-industrial.com for the broad range of interconnection products offered by Amphenol.

GT Connectors

how to order, connector intermateability

Part Number System								
GT	C	00	A	FF	36-5	P	W	(014)
1	2	3	4	5	6	7	8	

1. Contact Style and Insert Material

- C = Crimp
 - CN = Crimp with stainless steel
 - S = Solder
 - SN = Solder with stainless steel
 - CY = Crimp with Viton
 - SY = Solder with Viton
 - CL = Crimp with low smoke/flame retardant inserts
 - SL = Solder with low smoke/flame retardant inserts
- No designation required for Neoprene components

2. Shell Style

- 01 - Inline receptacle
- 02 - Box mount receptacle
- 030 - Square flange receptacle - rear panel mount
- 05 - Dummy receptacle
- 06 - Straight plug
- 07 - Jam nut receptacle - rear panel mount
- 070 - Jam nut receptacle with accessory threads
- 08 - 90° angle plug
- TB - Thru-bulkhead receptacle

3. Connector Class - For details, see pages 20-47

- A - Adapter for accessory attachment, non-environmental
- AF - Adapter, clamp for individual wires, non-environmental
- AMI - Threaded internal adapter. Thread style/size to be specified at the end of the PN - Ex (M20) or (PG21)
- CF - Adapter, jacketed cable clamp, environmental
- CFZ - Adapter, jacketed cable clamp, individual wire sealing grommet, environmental
- F - Adapter, clamp for individual wires, individual wire sealing grommet, environmental.
- G - Adapter for heat shrink tubing, individual wire sealing grommet, environmental
- GTTB - Thru bulkhead receptacle, accepts mating plug on both sides
- R - Adapter for accessory attachment, individual wire sealing grommet, environmental
- R - (02) No thread, no accessories, environmental with panel sealing gasket
- RMI - Threaded internal adapter with individual wire sealing grommet. Thread style/size to be specified at the end of the PN - Es (M20) or (PG21)
- RV - Adapter, individual wire sealing grommet, environmental
- SB - Adapter for termination of EMI/RFI shielded braid with heat shrink tubing or boot, individual wire sealing grommet, environmental

4. Designation for Mounting Hole - Receptacle Only

- FF - UN Threads
 - FM - Metric Threads
- No designation for standard through hole mounting holes.

5. Shell Size and Arrangement

See pages 48-50

6. Contact Style

- P designates pin contacts
- S designates socket contacts

7. Alternate Position

- W, X, Y and Z - See page 51.
- No suffix required for normal position.

8. Connector Modification*

- Omit for standard olive drab with silver plated contacts
- i.e.:
- (A31) Gold/nickel plated contacts
 - (025) Black zinc cobalt
 - (LC) Less contacts
 - (072) Gray Zinc Nickel
 - (116) Solder contacts less pre-filled solder
 - (724) Gray Zinc Nickel with solder contacts less pre-filled solder **RoHS Compliant**
 - (RDS) RADSOK® contacts (crimp sockets only)*

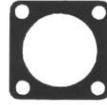
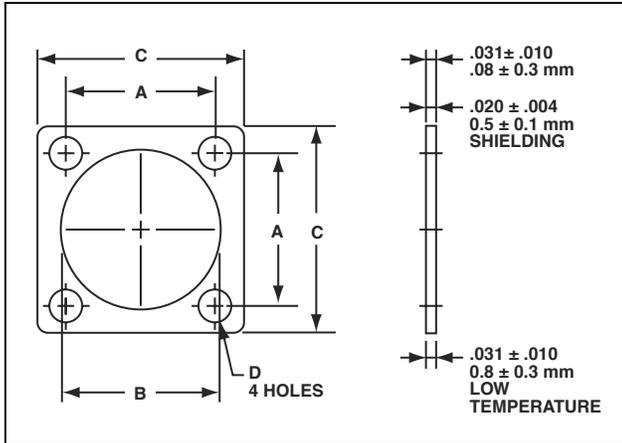
* Consult page 54 for RADSOK® Technology Advantages.

MATEABILITY WITH IDENTICAL CONTACT ARRANGEMENTS

Connector Style	Mateable with Style
GT01	GT06 / 062 / 064 / 065 / 08
GT02	GT06 / 08
GT030	GT06 / 08
GT06	GT01 / 02 / 030 / 05 / 070 / TB
GT07 / 070	GT06 / 08
GT08	GT01 / 02 / 030 / 05 / 070 / TB
GTTB	GT06 / 08

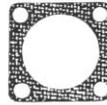
ACA-B/GT Connectors – accessories

10-40450, 10-36675, 10-580649 sealing gaskets



PLAIN FLAT GASKET

The Amphenol® plain flat gasket of synthetic rubber material is provided to take complete advantage of waterproof and pressure sealing features. It is for use with the flange mounted receptacle.



SHIELDING GASKET

This flat gasket is provided to give the maximum in connector performance. Its special feature is in providing the maximum radio shielding under difficult conditions of high receiver sensitivity and low signal strength while retaining the sealing characteristics of the plain gasket. This gasket is for use with the flange mounting receptacle.



LOW TEMPERATURE GASKET

This gasket is provided for applications where the major requirement is resistance to the injurious effects of extremely low temperature. Even at temperatures as low as -67°F this gasket retains its resiliency and will seal a pressure differential of 30 psi.

Additional versions of gaskets are available including low smoke zero halogen, and also high temperature and conductive types. Consult Amphenol Industrial Operations, Sidney NY, for further information.

Installation Dimensions					
MS Shell Size	A $\pm .010$	Front Panel Versions B $+ .016$ $- .000$	Rear Panel Version B $+ .016$ $- .000$	C $+ .016$ $- .000$	D $\pm .010$
10SL	.719	.625	.724	1.000	.172
14S	.906	.875	.976	1.188	.172
16S	.969	1.000	1.087	1.281	.172
16	.969	1.000	1.087	1.281	.172
18	1.063	1.125	1.220	1.375	.203
20	1.156	1.250	1.354	1.500	.203
22	1.250	1.375	1.480	1.625	.203
24	1.375	1.500	1.618	1.750	.203
28	1.563	1.750	1.846	2.000	.203
32	1.750	2.000	2.110	2.250	.219
36	1.938	2.188	2.354	2.500	.219
40	2.188	2.438	2.587	2.750	.219

Order Data for Front Panel Mount Gaskets			
Front Panel Plain Version	Front Panel Shielding Version	Front Panel Low Temperature Version	Front Panel Low Smoke ZH Version
10-40450-10	10-40450-10S	10-36675-10	LS-40450-10
10-40450-14	10-40450-14S	10-36675-14	LS-40450-14
10-40450-16	10-40450-16S	10-36675-16	LS-40450-16
10-40450-18	10-40450-18S	10-36675-18	LS-40450-18
10-40450-20	10-40450-20S	10-36675-20	LS-40450-20
10-40450-22	10-40450-22S	10-36675-22	LS-40450-22
10-40450-24	10-40450-24S	10-36675-24	LS-40450-24
10-40450-28	10-40450-28S	10-36675-28	LS-40450-26
10-40450-32	10-40450-32S	10-36675-32	LS-40450-32
10-40450-36	10-40450-36S	10-36675-36	LS-40450-36
10-40450-40	10-40450-40S	10-36675-40	LS-40450-40

Installation Dimensions					
MS Shell Size	A ± 0.2	Front Panel Versions B $+ 0.4$ $- 0.0$	Rear Panel Version B $+ 0.4$ $- 0.0$	C $+ 0.4$ $- 0.0$	D ± 0.2
10SL	18.2	15.9	18.4	25.4	4.36
14S	23.0	22.2	24.8	30.2	4.36
16S	24.6	25.4	27.6	32.5	4.36
16	24.6	25.4	27.6	32.5	4.36
18	27.0	28.57	31.0	35.0	5.15
20	29.4	31.75	34.4	38.1	5.15
22	31.8	34.9	37.6	41.2	5.15
24	34.9	38.1	41.1	44.5	5.15
28	39.7	44.45	46.9	50.8	5.15
32	44.5	50.8	53.6	57.2	5.56
36	49.2	55.57	59.8	63.5	5.56
40	55.6	61.92	65.7	69.9	5.56

Order Data for Rear Panel Mount Gaskets	
Rear Panel Plain Version	Rear Panel Low Smoke ZH Version
10-580649-11	LS-580649-11
10-580649-14	LS-580649-14
10-580649-16	LS-580649-16
10-580649-18	LS-580649-18
10-580649-20	LS-580649-20
10-580649-22	LS-580649-22
10-580649-24	LS-580649-24
10-580649-28	LS-580649-28
10-580649-32	LS-580649-32
10-580649-36	LS-580649-36
10-580649-40	LS-580649-40