

## Amphenol Corporation

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### AUTHORIZED INDUSTRIAL DISTRIBUTORS

#### Corporate Headquarters

#### ALPHABETICAL LISTING

#### APD (All Product Distributors):

|   |                    |
|---|--------------------|
| Arrow Electronics                         | Englewood, CO      |
| 800-388-2277                              |                    |
| Avnet EMG                                 | Dallas, TX         |
| 800-332-8638                              |                    |
| PEI Genesis                               | Philadelphia, PA   |
| 888-254-5920                              |                    |
| Powell Electronics                        | Philadelphia, PA   |
| 800-235-7880                              |                    |
| TTI Inc.                                  | Fort Worth, TX     |
| 800-225-5884                              |                    |
| <b>Commercial/Industrial Distributors</b> |                    |
| Astrex                                    | Plainview, NY      |
| 800-633-6360                              |                    |
| Electro Sonic Inc.                        | Ontario, Canada    |
| 800-56-SONIC/416-494-1555                 |                    |
| J&K Connectors                            | Seattle, WA        |
| 206-674-3300                              |                    |
| Nies Electronic                           | Frankfurt, Germany |
| (06109)7364-0                             |                    |
| Schuster Elect.                           | Cincinnati, OH     |
| 800-877-6875                              |                    |

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# Amphenol® Reverse Bayonet Interconnects for Rugged Environments

SL-394



## Amphenol



# About Us

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With the Amphenol Reverse Bayonet product offering, we have used this philosophy to design, manufacture, and support the Industrial Market with a dependable, ruggedized electrical connector family. With focus in the rail/mass transit process control market, our Interconnect solutions have been engineered to perform in the harshest environments.

Our goal . . . alleviate our customers interconnect burdens and allow them to focus on their present core technologies.



## ACA-B



## Reverse Bayonet Connectors

# GT

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800-235-7880

TTI Inc. Fort Worth, TX  
800-225-5884

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Electro Sonic Inc. Ontario, Canada  
800-56-SONIC/416-494-1555

J&K Connectors Seattle, WA  
206-674-3300

Nies Electronic Frankfurt, Germany  
(06109)7364-0

Schuster Elect. Cincinnati, OH  
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# Amphenol® Reverse Bayonet Interconnects for Rugged Environments

SL-394



## Amphenol



# About Us

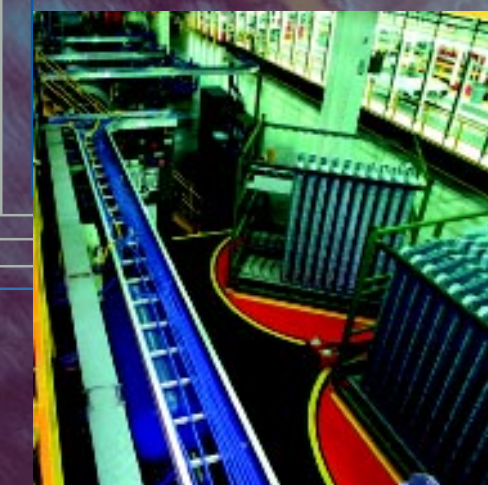
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## ACA-B



## Reverse Bayonet Connectors

# GT

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# Amphenol



# Amphenol GT Connectors

Designed originally for use by the military, the Heavy Duty GT Connector has become the connector of choice for the Rail/Mass Transit Industry.



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                 |
| 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                 |

## Part Number System

GT C 00 A 36-5 P W (014)  
1 2 3 4 5 6 7

### 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 retardants inserts
- SL = Solder with low smoke/flame retardants inserts

No designation required for Neoprene components

### 2. Shell Styles

- 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
- 05 - Dummy receptacle
- 06 - Straight plug
- 062 - Straight plug with deep serrated coupling nut
- 064 - Panel mounted plug with heavy coupling nut
- 065 - Straight plug with long heavy duty coupling nut
- 07 - Jam nut receptacle - rear panel mount
- 070 - Jam nut with accessory threads
- 08 - 90° angle plug
- TB - Thru-bulkhead

### 3. Connector Class

See catalog 12-024.

### 4. Shell Size and Arrangements

See catalog 12-024.  
Shell sizes available: 10SL, 14S, 16S, 16, 18, 20, 22, 24, 28, 32, 36, 40

### 5. Contact Style

P designates pin contacts  
S designates socket contacts

### 6. Alternate Position

W, X, Y and Z - See catalog 12-024.  
No suffix required for normal position.

### 7. Connector Modification

Omit for standard olive drab with silver plated contacts  
i.e. : (014) Olive drab cadmium plate, nickel base  
(A24) Gold/nickel plated contacts  
(025) Black zinc cobalt  
(027) Conductive black zinc cobalt  
(024) Green zinc cobalt  
Consult factory for other modifications.

# Features and Benefits

- Variety of Shell Styles
- Quick Positive Coupling
- Water Proof
- High Shock, High Vibration
- Solder, Crimp, or PC Tail Contacts
- Broad Operating Temperature Range
- Alternate Materials, Including Fire Retardant Elastomers
- Variety of Finishes Including Nickel, OD Cad, Cad-free Black Zinc Cobalt, and Green Zinc
- Rugged Construction
- More than 275 Layout Patterns Available
- Numerous Back-end Fittings
- Modifications to Meet Your Unique Application Requirements

## REVERSE BAYONET

## Performance and Design Characteristics

The Amphenol ACA-B and GT Product Families were designed around the electrical parameters of MIL-C-5015. However the unique reverse bayonet quick-disconnect coupling exceeds the environmental requirements of the military specification.

Operating Temperature  -55°C to +125°C

Electrical Rating  5 Amps to 500 Amps

Service Rating  Up to 4200V (DC)

Mating Cycles  500 (ACA-B), 2000+ (GT)

## General Specifications

|          |   |
|----------|---|
| SHELL    | Material: Aluminum Alloy, Stainless Steel also available<br>Finish: Cadmium-Olive Drab, Nickel, non CAD<br>Green Zinc and Black Zinc Cobalt |
| INSERT   | Material: Neoprene, alternates include Silicone,<br>Fluorocarbon, and Flame Retardant Rubber  |
| CONTACTS | Material: Copper Alloy or Brass<br>Finish: Silver and Gold  |

The GT Interconnect Family is used in door controllers, HVAC systems, cab controls, event recorders, propulsion systems, and other rail applications that demand reliable electrical interconnects.

# Amphenol ACA-B Connectors

The ACA-B Connector Family was developed especially for Industrial Usage and performs in the most Rugged Environments.



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, ACA3105 |
| ACA 3108        | ACA3101/ ACA3102/ ACA3103, ACA3105 |

## Part Number System

ACA 3106 E 18 1 S X B - \*\*\*  
1 2 3 4 5 6 7 8 9

### 1. Series

ACA Circular Connector Family

### 2. Shell Styles

- 3100 - Wall mount receptacle
- 3101 - Cable connecting plug
- 3102 - Front box mount receptacle
- 3103 - Rear box mount receptacle
- 3105 - Dummy receptacle
- 3106 - Plug straight
- 3108 - Plug 90°

### 3. Class

- E - Environmental with resilient insulators and endbell with clamp and bushing
- F - Environmental with resilient insulator and endbell with rear accessory threads
- R - Environmental with resilient insulator and shortened light-weight endbell without cable clamp

### 4. Shell Size

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

### 5. Contact Arrangement

See catalog 12-027

### 6. Contact Type

- P - Pin
- S - Socket

### 7. Alternate Position

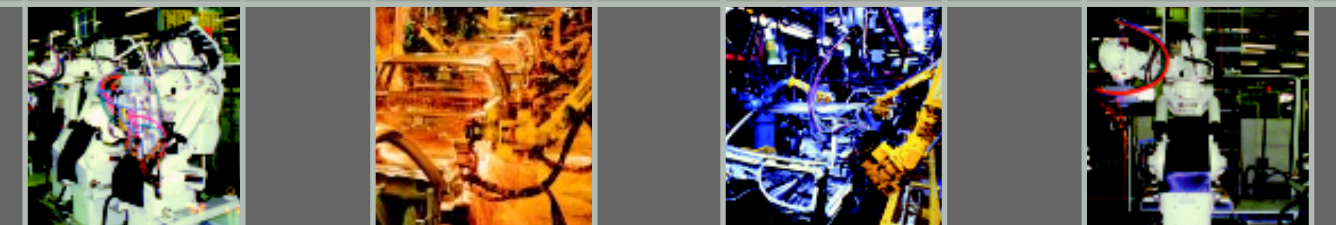
W, X, Y and Z  
No suffix required for normal position.

### 8. Reverse Bayonet Coupling

### 9. Connector Modification

- F80 - Crimp contacts
- A232 - Black zinc cobalt
- A176 - Solid plated contacts
- Consult factory for other modifications

## PROCESS CONTROLS



The ACA-B Family of Connectors offers a dependable interconnect for applications in process control, industrial machinery, test and measurement equipment, robotic assembly, and other industrial applications.



# Amphenol GT Connectors

Designed originally for use by the military, the Heavy Duty GT Connector has become the connector of choice for the Rail/Mass Transit Industry.



## 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                 |
| 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                 |

### 6. Alternate Position

W, X, Y and Z - See catalog 12-024.  
No suffix required for normal position.

### 7. Connector Modification

Omit for standard olive drab with silver plated contacts  
i.e. : (014) Olive drab cadmium plate, nickel base  
(A24) Gold/nickel plated contacts  
(025) Black zinc cobalt  
(027) Conductive black zinc cobalt  
(024) Green zinc cobalt  
Consult factory for other modifications.

### Part Number System

GT C 00 A 36-5 P W (014)  
1 2 3 4 5 6 7

#### 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 retardants inserts
  - SL = Solder with low smoke/flame retardants inserts
- No designation required for Neoprene components

#### 2. Shell Styles

- 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
- 05 - Dummy receptacle
- 06 - Straight plug
- 062 - Straight plug with deep serrated coupling nut
- 064 - Panel mounted plug with heavy coupling nut
- 065 - Straight plug with long heavy duty coupling nut
- 07 - Jam nut receptacle - rear panel mount
- 070 - Jam nut with accessory threads
- 08 - 90° angle plug
- TB - Thru-bulkhead

#### 3. Connector Class

See catalog 12-024.

#### 4. Shell Size and Arrangements

See catalog 12-024.  
Shell sizes available: 10SL, 14S, 16S, 16, 18, 20, 22, 24, 28, 32, 36, 40

#### 5. Contact Style

P designates pin contacts  
S designates socket contacts

# Features and Benefits

- Variety of Shell Styles
- Quick Positive Coupling
- Water Proof
- High Shock, High Vibration
- Solder, Crimp, or PC Tail Contacts
- Broad Operating Temperature Range
- Alternate Materials, Including Fire Retardant Elastomers
- Variety of Finishes Including Nickel, OD Cad, Cad-free Black Zinc Cobalt, and Green Zinc
- Rugged Construction
- More than 275 Layout Patterns Available
- Numerous Back-end Fittings
- Modifications to Meet Your Unique Application Requirements

# REVERSE BAYONET

## Performance and Design Characteristics

The Amphenol ACA-B and GT Product Families were designed around the electrical parameters of MIL-C-5015. However the unique reverse bayonet quick-disconnect coupling exceeds the environmental requirements of the military specification.

Operating Temperature  -55°C to +125°C

Electrical Rating  5 Amps to 500 Amps

Service Rating  Up to 4200V (DC)

Mating Cycles  500 (ACA-B), 2000+ (GT)

## General Specifications

|                 |   |
|-----------------|---|
| <b>SHELL</b>    | Material: Aluminum Alloy, Stainless Steel also available<br>Finish: Cadmium-Olive Drab, Nickel, non CAD<br>Green Zinc and Black Zinc Cobalt |
| <b>INSERT</b>   | Material: Neoprene, alternates include Silicone,<br>Fluorocarbon, and Flame Retardant Rubber  |
| <b>CONTACTS</b> | Material: Copper Alloy or Brass<br>Finish: Silver and Gold  |

The GT Interconnect Family is used in door controllers, HVAC systems, cab controls, event recorders, propulsion systems, and other rail applications that demand reliable electrical interconnects.

# Amphenol ACA-B Connectors

The ACA-B Connector Family was developed especially for Industrial Usage and performs in the most Rugged Environments.



## 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, ACA3105 |
| ACA 3108        | ACA3101/ ACA3102/ ACA3103, ACA3105 |

### Part Number System

ACA 3106 E 18 1 S X B - \*\*\*  
1 2 3 4 5 6 7 8 9

#### 1. Series

ACA Circular Connector Family

#### 2. Shell Styles

- 3100 - Wall mount receptacle
- 3101 - Cable connecting plug
- 3102 - Front box mount receptacle
- 3103 - Rear box mount receptacle
- 3105 - Dummy receptacle
- 3106 - Plug straight
- 3108 - Plug 90°

#### 3. Class

- E - Environmental with resilient insulators and endbell with clamp and bushing
- F - Environmental with resilient insulator and endbell with rear accessory threads
- R - Environmental with resilient insulator and shortened light-weight endbell without cable clamp

#### 4. Shell Size

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

#### 5. Contact Arrangement

See catalog 12-027

#### 6. Contact Type

- P - Pin
- S - Socket

#### 7. Alternate Position

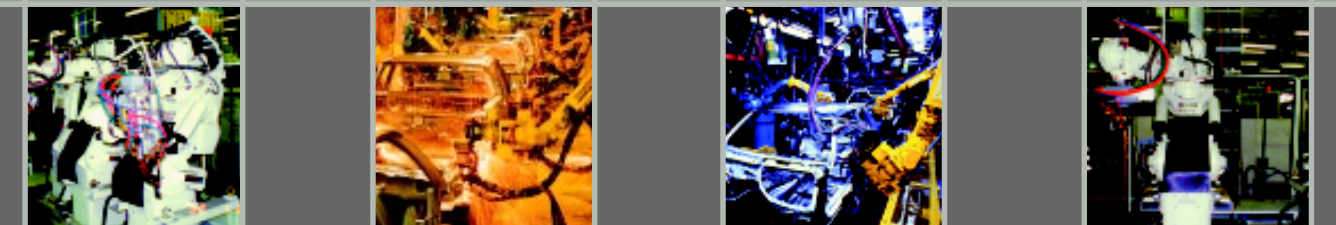
W, X, Y and Z  
No suffix required for normal position.

#### 8. Reverse Bayonet Coupling

#### 9. Connector Modification

- F80 - Crimp contacts
- A232 - Black zinc cobalt
- A176 - Solid plated contacts
- Consult factory for other modifications

## PROCESS CONTROLS



The ACA-B Family of Connectors offers a dependable interconnect for applications in process control, industrial machinery, test and measurement equipment, robotic assembly, and other industrial applications.



# Amphenol GT Connectors

Designed originally for use by the military, the Heavy Duty GT Connector has become the connector of choice for the Rail/Mass Transit Industry.



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| GT01                | GT06/ 062/ 064/ 065/ 08                 |
| GT02                | 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                 |

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- TB - Thru-bulkhead

#### 3. Connector Class

See catalog 12-024.

#### 4. Shell Size and Arrangements

See catalog 12-024.  
Shell sizes available: 10SL, 14S, 16S, 16, 18, 20, 22, 24, 28, 32, 36, 40

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# Amphenol ACA-B Connectors

The ACA-B Connector Family was developed especially for Industrial Usage and performs in the most Rugged Environments.



## 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, ACA3105 |
| ACA 3108        | ACA3101/ ACA3102/ ACA3103, ACA3105 |

### Part Number System

ACA 3106 E 18 1 S X B - \*\*\*  
1 2 3 4 5 6 7 8 9

#### 1. Series

ACA Circular Connector Family

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- 3100 - Wall mount receptacle
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#### 4. Shell Size

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

#### 5. Contact Arrangement

See catalog 12-027

#### 6. Contact Type

- P - Pin
- S - Socket

#### 7. Alternate Position

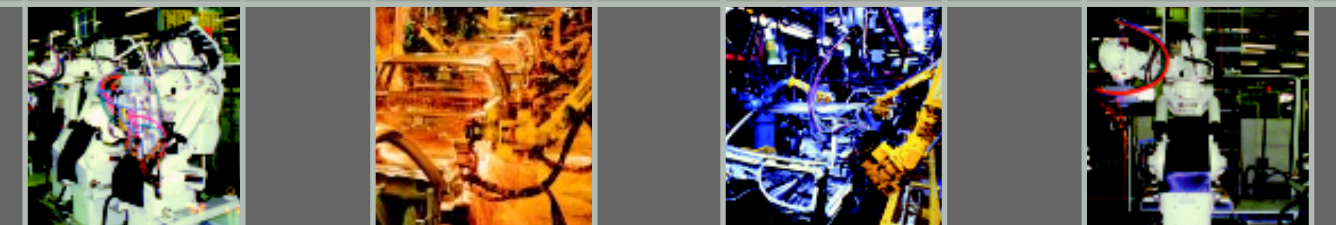
W, X, Y and Z  
No suffix required for normal position.

#### 8. Reverse Bayonet Coupling

#### 9. Connector Modification

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- Consult factory for other modifications

## PROCESS CONTROLS



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