

ARRAY CONNECTOR CORP. CIRCULAR - COMMERCIAL CONNECTORS

ACB COMMERCIAL SERIES

BAYONET LOCKING - CRIMP, SOLDER, PC-TAIL CONTACT CONNECTORS

Array Connector Corp's "ACB" Series connectors are designed for harsh environments where resistance to the effects of vibration is critical. These connectors meet or exceed the performance requirements of MIL-C-5015G and VG 95234, are available in 11 shell sizes with over 100 insert arrangements. They are generally intermateable and interchangeable with connectors produced by Veam®, Amphenol® and ITT Cannon® to name a few. Standard contact termination utilizes solder; however, Array offers crimp as well as PC-tail contacts satisfying a wide range of applications and assembly methods.

Due to the rugged construction, durability and dependability the "Bayonet 5015" connector family has long been the workhorse of the Railroad Industry in the United States, Europe and the rest of the world. Designed for wire sizes AWG 0 through 20, these highly durable connectors are used on fixed and mobile military equipment, in industrial applications such as machine tools, robotic and automation equipment, and on transportation equipment including trucks, buses, trains and planes.

Shells and hardware are made of high strength aluminum alloys and are available with a variety of plated or anodized finishes. Contacts are machined from solid copper alloy and silver-plated in accordance with QQ-S-365. With a standard operating temperature range of -55°C to +125°C available with a variety of accessories and features, Array's ACB Series is widely called out by design engineers and specifiers seeking reliability and durability throughout a broad range of environmental requirements.

To meet the rigorous requirements of various rail authorities in the US and Europe, Array also produces these connectors utilizing zero or low halogen materials for inserts, grommets and sealing rings. In addition, Array installs a stainless steel pin in the locking mechanism to extend the useful life of these connectors in extremely rigorous applications.

Insert Arrangements

Insert arrangements for the ACB Series are the same as 5015/AC Series.

Please see 5015 insert arrangement charts in this catalog.

Service Classes

- A** Solid End Bell
- R** Environmental Grommet Seal
- F** R Type With Strain Relief
- N** No Back Shell

ACB Commercial Series Connectors

Commercial ACB00 (A, R and F Classes)

Style – Wall Mount Receptacle

Shown is “F”, Strain Relief Version



Shell Sizes (11)	# Contacts	Insert Arrangements	Outside Dia.	Length	Classes	Flange Dim.	Hole Pattern
10SL through 36	1 through 85	Over 100	.717 – 2.579	Varies per Class	A, R, F	1.00 – 2.764	.717 – 2.189

Commercial ACB02 A and R Classes

Style – Box Mount Receptacle, Front Panel Mount



Shell Sizes (11)	# Contacts	Insert Arrangements	Outside Diameter	Length	Classes	Flange Dim.	Hole Pattern
10SL through 36	1 through 85	Over 100	.717 – 2.579	.972- 1.472	A, R	1.00 – 2.764	.717 – 2.189

Commercial ACB03 (N, A, R and F Classes)

Style – Box Mount Receptacle, Rear Panel Mount



Note: Same as ACB04 only 03 has threaded holes.

Shell Sizes (11)	# Contacts	Insert Arrangements	Outside Diameter	Length	Classes	Flange Dim.	Hole Pattern
10SL through 36	1 through 85	Over 100	.625 – 2.346	Varies per Class	N, A, R, F	1.00 – 2.500	.717 – 1.937

ACB Commercial Series Connectors (*continued*)

Commercial ACB04 (N, A, R and F Classes)



**Style – Box Mount Receptacle,
Rear Panel Mount**

Note: Same as ACB03 only no threaded holes.

Shell Sizes (11)	# Contacts	Insert Arrangements	Outside Diameter	Length	Classes	Flange Dim	Hole Pattern
10SL through 36	1 through 85	Over 100	.717 – 2.346	Varies per Class	N, A, R, F	1.00 – 2.500	.717 – 1.937

Commercial ACB06 (A, R and F Classes)

Style – Straight Plug (F Class Shown)



Shell Sizes (11)	# Contacts	Insert Arrangements	Coupling Shell Diameter	Length	Classes
10SL through 36	1 through 85	Over 100	.894 – 2.819	Varies per Class	A, R, F

Commercial ACB08 (A, R and F Classes)

Style – 90° Cable Plug (F Class Shown)



Shell Sizes (11)	# Contacts	Insert Arrangements	Coupling Shell Diameter	Length to Centerline	Classes
10SL through 36	1 through 85	Over 100	.894 – 2.819	1.512 – 3.098	A, R, F