










## Connector Assembly Programme

Acal BFi UK are an authorised assembling distributor for Amphenol circular connectors, ranging from 62GB's to 97/AMS's (The widest range of Amphenol connectors in the UK). The partnership has developed solutions for over 50 years, and covers the most comprehensive scope of approvals in the UK, including:- BS9000, PANAVIA, JN & MIL-DTL-38999 CAT 'C' Approval.

	Proprietary Part	MIL-C Spec.	UK MOD Pattern	BS Spec.	Pan Avia Spec.	JN Spec.	48 Hour Assembly*
	62GB	MIL-DTL-2648 2 (Series 1)	Pattern 105	-	-	-	✓
	162GB	MIL-DTL-2648 2 (Series 1)	Pattern 603	-	-	-	✓
	602GB	MIL-DTL-2648 2 (Series 2)	Pattern 602	-	PAN6432-1 PAN6432-4	-	✓
	608	-	Pattern 608	-	-	-	✓
	LJT (38999)	MIL-DTL-3899 9 (Series 1)	Pattern 616	BS9520 G0001	-	-	✓
	SJT (38999)	MIL-DTL-3899 9 (Series 1)	Pattern 615	-	PAN6433-2	JN1003	✓
	D38999 / TV	MIL-DTL-3899 9 (Series 3)	-	BS9520 G0003	-	JN1034	✓
	97 / AMS	MIL-C-5015	-	-	-	-	✓
	711	MIL-STD-1553 B	-	-	PAN6484	-	✓

\*Delivery confirmation subject to capacity and availability of piece parts.

### Accessories:- AIA 5001 / AIA 5003 Backshell



- AIA 5001 Series for use on 62GB, MIL-C-26482, connector ranges, and the specifications including:- MIL-C-38999 Series1, BS9520, G0001, HE308.
- AIA 5003 Series for use on MIL-C-38999 Series 3
- Both are suitable for Bandit, Zetalock & Heatshrink termination product, & are designed to give 360° screening.
- Variety of backshell materials (Aluminium Alloy, Aluminium Bronze & Stainless Steel) & Exit Angles available

For expert technical or commercial advice, contact the team directly:

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## Featured products from the Amphenol Product Portfolio

### Amphenol Cadmium Alternative Black Zinc Nickel Plating Finish

Black Zinc Nickel plating is now available on a wide variety of connectors and accessories including proprietary Mil-DTL-38999 and Mil-C-26482. This conductive and non-reflective black finish is approved for 500hrs salt spray endurance and is fast becoming the new Defence Industry standard. In response to industry demands, Amphenol Ltd has designed and installed a new processing line at their Whitstable, UK facility to enable plating with Black Zinc Nickel a conductive and environmentally sound surface treatment.

- RoHS compliant
- Cadmium free
- 500 mating cycles, non magnetic
- Deployed on standard connector ranges
- Salt Spray 500hrs endurance with shell-to-shell continuity <5mΩ
- Shell-to-Shell Continuity Less than <2.5mΩ initially
- -65° to +175°C Temperature range in accordance with Mil-DTL-38999
- No significant galvanic reaction with cadmium, zinc cobalt or electroless nickel plated parts



### Amphenol Rhino 38999 Single Pole High Power Connector Series

Combining the benefits of field proven Mil-DTL-38999 Series III circular connectors, with hyperbolic contacts that extend the boundaries of high power connector technology; The Rhino 38999 is designed to meet the latest military and industrial specifications, and stringent safety requirements. High reliability applications including vehicular, aerospace, industrial, automation, mining, offshore and other harsh environments can all be addressed using the Rhino 38999 Series.

- Quick release breakaway
- Tailored mating and breakaway force
- RoHS compliant
- 1000 + matings
- Quick release breakaway
- RADSOK contacts creates an electrical interface that exceeds typical interconnect requirements via a hyperbolic socket contact construction



### Amphenol Terrapin Miniature Rugged Connector Series

Intended for harsh environment applications & used extensively in soldier communications, Amphenol Terrapin is a miniature series of circular push-pull connectors. Within a rugged shell design Terrapin offers superior EMC performance and high environmental sealing to IP68. Resilient in severe battlefield situations the RoHS compliant black-silver plating is both low-lustre and corrosion resistant. Featuring an optional locking mechanism, multiple shell sizes with up to 37 contacts and suitability for overmoulding, Terrapin is the preferred choice for miniature connectors in military and other harsh environment applications.

- Miniature footprint
- Quick release breakaway / Latched Version
- Sealed to IP68 / RoHS compliant
- 2000 + matings
- Five keying options to prevent mis-mating
- Brass base metal / Black silver plating
- No special tooling or training required
- Gigabit ethernet and USB 2.0 compatible



### Amphenol Bulldog Quick Release Harsh Environment Connector Range

This IP68 sealed RoHS compliant connector range has been specifically developed for harsh environment vehicle applications. Designed for quick, safe disconnection and ideal for jettison applications where damage limitation is critical. The Bulldog series is designed to utilise standard MIL-C specification insert arrangements within a rugged and non-reflective shell design. The utilisation of standard insert arrangements ensures the connectors' suitability for Power, Signal and Data applications.

- Quick release breakaway
- Tailored mating and breakaway force
- RoHS compliant
- 1000 + matings
- Utilises MIL – C standard insert arrangements
- Corrosion resistant aluminium bronze
- No special tooling or training requirements
- Sealed to IP68

