

**SERIES GLMC
10K PSI
IN-LINE AND
BULKHEAD
CONNECTORS**



**Industry-standard wet-pluggable
rubber molded connectors**

Glenair GLMC Handling Instructions

**Please follow all instructions carefully to ensure correct use of your
GLMC connectors.**



Pre-Installation Checks

GLMC Marine Molded Connectors and Cables are manufactured and electronically tested at Glenair UK, Mansfield before shipment. Prior to installation, a few simple checks are recommended:

- **Visually inspect the GLMC Connectors for damage, paying particular attention to the mating connector faces, ensuring there is no foreign objects debris (FOD) evident.**
- **Inspect the pins and sockets and ensure the connector configuration is paired correctly.**
- **Confirm that the bulkhead metalwork is free from dents, nicks and scratches. Ensure all cable and wire are free from abrasions, bends, tangles and kinks. Do not install potentially damaged connectors. If in doubt, contact Glenair UK.**

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Handling

- Connectors to be greased with Molykote 44 Medium before every mating. This applies to all contact configurations – can be purchased from Glenair.
- Use orientation pips on GLMC connectors for ease of mating underwater.
- Always grease O-rings on bulkheads with Dow Corning DC4.
- Never disconnect at an angle. Always disconnect by pulling the connector straight out, not pulling on the cable.
- Avoid sharp bends at the cable entry.
- Ensure there are no angular loads when using a bulkhead connector.
- Always use the correct torque when tightening bulkhead nuts. (Shown on page 4).
- GLMC should not be exposed to prolonged periods of heat or direct sunlight which could result in the connector becoming very dry

Glenair recommends the following greasing products:

- Molykote 44 Medium when mating connectors.
- Dow Corning DC4 when greasing O-rings on bulkheads.
- Do not use WD-40 or similar products.
- Do not use Compound or similar greasing products.



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Greasing and Mating Above Water (Dry Mate)

- Before every mate GLMC connectors must be greased with Molykote 44 Medium.
- A layer of grease should be applied to the female connector, corresponding to a minimum of 1/10 of the socket depth.
- A thin transparent layer of grease should be left visible on the face of the connector, and the inner edge of all sockets should be completely covered.
- Once greased, fully mate the male and female connectors. This will secure optimal distribution of grease on all pins and in the sockets.
- To confirm that grease has been sufficiently applied, de-mate connectors and check for grease on every male pin. Then re-mate the connectors.



Greasing and Mating Underwater (Wet-Pluggable)

- Before every mate GLMC connectors must be greased with Molykote 44 Medium.
- A layer of grease should be applied to the female connector, corresponding to a minimum of 1/3 of the socket depth.
- A transparent layer of grease should be left visible on the face of the connector and all sockets should be completely sealed.
- Fully mate the male and female connectors after greasing and remove any excess grease from the connector joint.
- For ease of mating underwater use the orientation pips to help line up each connector.



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Locking Sleeves

- Glenair offer Locking Sleeves for GLMC Connectors (Sold separately).
- Fit 10-16 Way GLMC Bulkheads Locking Sleeves prior to installation.
- Consult factory for different coloured locking sleeves. Standard colour is blue.



Bulkhead Connectors - Torque Figures

Recommended Torque Values	Type	Material	Nm	Lb - ft
	7/16"20 UNF	Brass & Aluminium	10.0	7.4
		Stainless Steel & Titanium	14.0	10.3
		PEEK	4.2	3.1
	1/2"-20 UNF	Brass & Aluminium	15.0	11
		Stainless Steel & Titanium	21.0	15.5
		PEEK	5.2	3.8

O-Rings

GLMC Bulkhead	Single O-Ring (Bulkhead)	Dual O-Ring (Bulkhead)	Dual O-Ring (Piston)
2 - 8 Way	2-014	5-1014	2-012
10 - 16 Way	2-015	2-016	2-013

- Additional and Replacement O-Rings can be purchased from Glenair.

Cleaning Products

- General cleaning, including removal of any accumulated sand or mud on a GLMC connector should be performed using a spray-based contact cleaner (Isopropyl Alcohol - or similar).
- Do not use Acetone, Gasoline or any similar products for cleaning.
- Once cleaned, new grease must be applied to the GLMC connectors prior to mating.

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