

# MARINE MOLDED™

## Series GLMC

**Industry-standard wet-pluggable rubber molded connectors for ROVs and other Oil & Gas industry applications**

Built to perform in the world's toughest environments, Glenair's Marine Molded Connectors (Series GLMC) deliver unmatched durability and performance in subsea, offshore, and harsh oil & gas applications. Precision-molded from Glenair's proprietary high-grade Neoprene and tested to the highest standards, these connectors are engineered to handle pressure-sealed conditions up to 10,000 PSI mated, ensuring mission-critical reliability where it matters most.

Wet-pluggable by design, the GLMC series allows for safe and secure connections to be made underwater, on deck, or in challenging weather conditions-minimizing downtime and maximizing operational flexibility.

Bulkhead connectors are offered in a variety of robust material options to suit your specific application needs.



Male Bulkhead Connector

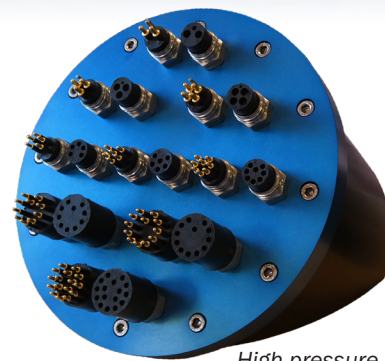


In-Line Mated Pair  
with Locking Sleeves



Male and Female  
In-Line Connectors

Available in prewired In-Line and Bulkhead styles with symmetrical layouts from 2 to 16 contacts, the GLMC series is your go-to solution for ROVs, towed arrays, and deepwater installations. Fully intermateable and intermountable with industry-standard connectors, GLMC offers seamless integration without compromise.



High-pressure Male  
and Female bulkheads

- **Wet pluggable capability**
- **Up to 10,000 PSI / 690 Bar (6,800m/22,500ft) mated**
- **2-16 contact layouts available**
- **Locking Sleeves - multiple colours available (\*contact factory for availability)**
- **316L Stainless Steel Bulkhead (standard), Brass and PEEK available**
- **600 Volts for 2, 3 & 4 way**
- **300 Volts for 5, 6, 8, 10, 12 & 16 way**
- **Overmolded with Standard Neoprene, Nitrile, Hypalon, or Polyurethane**
- **2, 3, 4, 5, 6 & 8 way max 20A**
- **10, 12 & 16 way max 30A**



# 10K PSI / 700 BAR / 7000M Advanced-Performance Series GLMC Type 10K PSI



## Key Marine Molded Series Performance Data

### SERIES GLMC TECHNICAL DATA

Performance Data	
Mating Cycles	500
Pressure (Mated)	689 BAR (7000m) (10,000 PSI) (23000ft)
Pressure (Unmated)	6.89 BAR (70m) (100 PSI) (230ft)
Temperature Rating (Water)	-4 °C to 60 °C (25 °F to 140 °F)
Temperature Rating (Air)	-40 °C to 60 °C (-40 °F to 140 °F)
Storage Temperature Rating	-40 °C to 60 °C (-40 °F to 140 °F)
Electrical Rating	2, 3 & 4 Way Pin 600 VDC TYP. 5, 6, 8, 10, 12 & 16 Way Pin 300 VDC TYP. >1GΩ Insulation Resistance
Current (Max.)	2, 3 AND 4 Way, 10A Per Contact (Max. 20A Per Connector) 5, 6, AND 8 WAY, 5A Per Contact (Max. 20A Per Connector) 10, 12, AND 16 WAY, 5A Per Contact (Max. 30A Per Connector)
Wire Gauge	2, 3, and 4 Way Bulkheads Wired with 20 AWG (0.34mm <sup>2</sup> ) 5, 6, 8, 10, 12 and 16 Way Bulkheads Wired with 22 AWG (0.50mm <sup>2</sup> ) 2, 3 and 4 Way In-Lines Wired with 18 AWG (0.75mm <sup>2</sup> ) 5, 6, 8, 10, 12 and 16 Way In-Lines Wired with 20 AWG (0.34mm <sup>2</sup> )
In-Line Cable Diameters	2 Way Ø9.10mm (0.357") NOM 3 Way Ø9.50mm (0.374") NOM 4 Way Ø10.40mm (0.409") NOM 5 Way Ø7.60mm (0.299") NOM 6 Way Ø8.30mm (0.327") NOM 8 Way Ø9.30mm (0.366") NOM 10 Way Ø10.80mm (0.425") NOM 12 Way Ø12.50mm (0.492") NOM 16 Way Ø14.10mm (0.555") NOM

Wire Colors	
Contact No.	Color
1	Black
2	White
3	Red*
4	Green
5	Orange
6	Blue
7	White/Black
8	Red/Black
9	Green/Black
10	Orange/Black
11	Blue/Black
12	Black/White
13	Red/White
14	Green/White
15	Blue/White
16	Black/Red

\* For 3 Way Configuration Wire 3 is Green

Series GLMC Material / Finish		
Component:	Material:	Finish:
Connector Shell(s)	316L Stainless Steel	Passivation
Insulator	PEEK	N/A
Insert	Neoprene	N/A
Contacts	Copper Alloy	Gold Per Over Nickel
O-Rings	Nitrile	N/A
Overmold	Neoprene	N/A
Locking Sleeves	Polyoxymethylene	Various
Bulkhead Receptacle Tails	P.T.F.E. Insulated 20/22 AWG Wire	N/A
Cable	CPE Rubber Jacket	N/A
Guide Pin	303 Stainless Steel	N/A

#### NON-STANDARD MATERIALS:

Other material options are available as part of our non-catalogue offerings including anodized aluminum, titanium and brass. Glenair is also able to supply Series GLMC Marine Molded interconnects in composite thermoplastic (PEEK) to meet application requirements for reduced cathodic corrosion as well as weight reduction without affecting connector performance.

#### TESTING:

Series GLMC Marine Molded has undergone a full qualification program, details are available upon request.

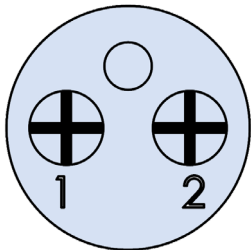
#### INSTALLATION:

Reference Handling Instructions to aid installation - Contact Glenair for the latest copy.

## Insert Arrangements

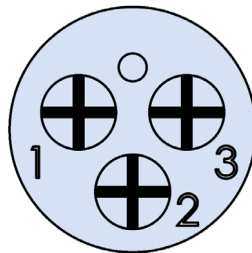
**SERIES GLMC MOLD ARRANGEMENTS** Mating face view of pin insert (socket insert arrangements are reversed)

### 2 - 8 Way



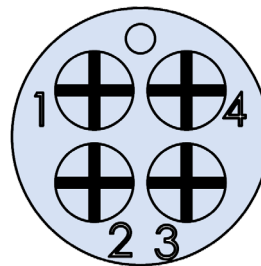
**2 Way**

BH - 20 AWG Wires  
IL - 18 AWG Wires



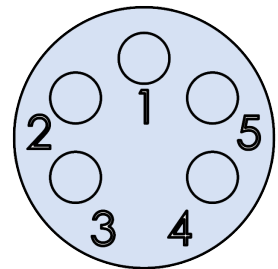
**3 Way**

BH - 20 AWG Wires  
IL - 18 AWG Wires



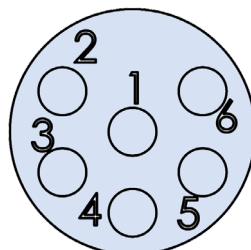
**4 Way**

BH - 20 AWG Wires  
IL - 18 AWG Wires



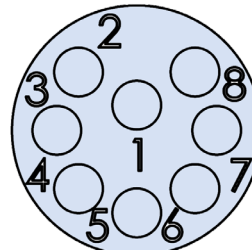
**5 Way**

BH - 22 AWG Wires  
IL - 20 AWG Wires



**6 Way**

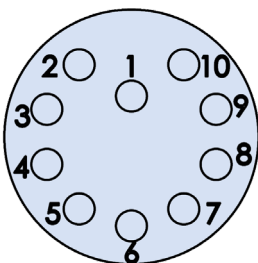
BH - 22 AWG Wires  
IL - 20 AWG Wires



**8 Way**

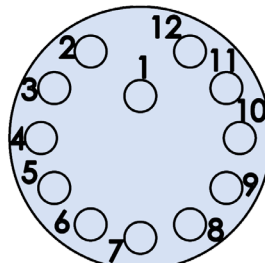
BH - 22 AWG Wires  
IL - 20 AWG Wires

### 10 - 16 Way



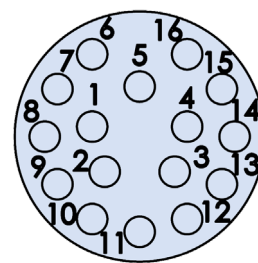
**10 Way**

BH - 22 AWG Wires  
IL - 20 AWG Wires



**12 Way**

BH - 22 AWG Wires  
IL - 20 AWG Wires



**16 Way**

BH - 22 AWG Wires  
IL - 20 AWG Wires



10K PSI / 700 BAR / 7000M  
Advanced-Performance  
Series GLMC Type 10K PSI  
Marine Molded Series Connectors

## GLMC IN-LINE FLYING LEAD CONNECTOR MOLD



Series GLMC - How To Order							
Sample Part Number		GLMC	IL	3	M	0003	*
Series	GLMC - Glenair Micro Wet-Con						
Shell Style	IL - In-Line Mold						
Contact Config	Number of contacts: 2, 3, 4, 5, 6, 8, 10, 12 or 16						
Gender	M = Male F = Female						
Cable Length *	E.G. 0003 = 3ft (standard length) E.G. 0010 = 10ft						
Inch Increments	Either 3, 6 or 9 inches (Omit for whole feet lengths)						

## GLMC BULKHEAD CONNECTOR



Series GLMC - How To Order							
Sample Part Number		GLMC	BH	16	M	0002	*
Series	GLMC - Glenair Micro Wet-Con						
Shell Style	BH - Bulkhead						
Contact Config	Number of contacts: 2, 3, 4, 5, 6, 8, 10, 12 or 16						
Gender	M = Male F = Female						
Wire Length *	E.G. 0002 = 2ft (standard length) E.G. 0010 = 10ft						
Inch Increments	Either 3, 6 or 9 inches (Omit for whole feet lengths)						
Material Options	PK = Peek Connector Body B = Brass Connector Body (Omit for standard connectors - St. Steel 316L)						

## GLMC IN-LINE TO IN-LINE CABLE



Series GLMC - How To Order								
Sample Part Number		GLMC	IL	12	F	L1	0002	*
Series	GLMC - Glenair Micro Wet-Con							
Shell Style	IL - In-Line To In-Line Mold							
Contact Config	Number of contacts: 2, 3, 4, 5, 6, 8, 10, 12 or 16							
Gender	M = Male F = Female							
Locking Sleeve	L1 = Female L2 = Male (Omit for no locking sleeves)							
Cable Length *	E.G. 0002 = 2ft (standard length) E.G. 0010 = 10ft							
Inch Increments	Either 3, 6 or 9 inches (Omit for whole feet lengths)							
Back-to-Back	B2B = Back-to-Back; contact factory for In-Line to In-Line part number system							

## GLMC DUMMY CONNECTOR



Series GLMC - How To Order					
Sample Part Number		GLMC	DC	16	M
Series	GLMC - Glenair Micro Wet-Con				
Shell Style	DC - Dummy Connector				
Contact Config	Number of contacts: 2, 3, 4, 5, 6, 8, 10, 12 or 16				
Gender	M = Male F = Female				

## GLMC LOCKING SLEEVES



Series GLMC - How To Order						
Sample Part Number		GLMC	LS	F	B	*
Series	GLMC - Glenair Micro Wet-Con					
Locking Sleeve	LS - Locking Sleeve					
Gender	M = Male F = Female					
Size	A = 2 - 8 Way B = 10 - 16 Way					
Material Option	(Omit for standard locking sleeves) Contact factory for alternative colour options					

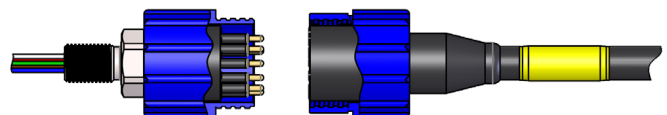
## LOCKING SLEEVES COMPATIBLE CONFIGURATIONS



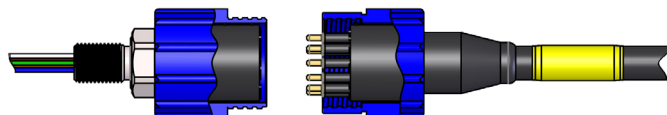
2 - 8 Way Male Bulkhead pairs with 2 - 8 Way Female In-Line with a Female Locking Sleeve \*



2 - 8 Way Female Bulkhead pairs with 2 - 8 Way Male In-Line with a Female Locking Sleeve \*



10 - 16 Way Male Bulkhead with Male Locking Sleeve pairs with 10 - 16 Way Female In-Line with a Female Locking Sleeve \*



10 - 16 Way Female Bulkhead pairs with 10 - 16 Way Male In-Line with a Female Locking Sleeve \*

## \* LOCKING SLEEVES KEY INFORMATION

When mating a 2 - 8 Way Bulkhead to a 2 - 8 Way In-Line, regardless of gender, always use a Female Locking Sleeve on the In-Line.

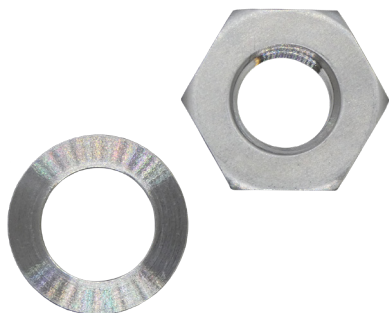
When mating a 10 - 16 Way, both Male and Female Locking Sleeves can be used regardless of gender. Please fit 10 - 16 Way GLMC Bulkhead Locking Sleeves prior to installation.



# 10K PSI / 700 BAR / 7000M Advanced-Performance Series GLMC Type 10K PSI Marine Molded Series Connectors



## GLMC NUTS & WASHERS



Series GLMC - How To Order				
Sample Part Number	GLMC	N	1	S16LZ1
Series	GLMC - Glenair Micro Wet-Con			
BH Accessory	N - Nut W - Washer			
Connector Size	1 = 2 - 8 Way 2 = 10 - 16 Way			
Material Option	S16LZ1 - 316L Stainless Steel B - Brass T - Titanium PK - PEEK A - Anodized Aluminum			

## GLMC SPARE BULKHEAD O-RINGS



2 - 8 Way O-Ring	GLMC-OR-1-N70
10 - 16 Way O-Ring	GLMC-OR-2-N70

## GLMC GREASE



100g Molykote 44 Medium	GLMC-44M-100G
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Recommended Torque Values	Type	Material	Nm	lb-ft
	7/16"-20 UNF	Brass & Aluminum	10.0	7.4
		Stainless Steel & Titanium	14.0	10.3
		PEEK	4.2	3.1
	1/2"-20 UNF	Brass & Aluminum	15.0	11
		Stainless Steel & Titanium	21.0	15.5
		PEEK	5.2	3.8

## GLMC HANDLING INSTRUCTIONS



Scan the QR Code to view the latest issue of the GLMC Handling Instructions.

This document advises the proper methods to check, clean and install your GLMC Connectors and Accessories. If any further clarity is required, please contact the factory.