



**DEEP
WATER**

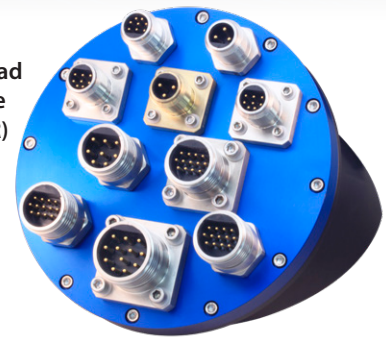


Photo: NOAA



ADVANCED PERFORMANCE SERIES 55 TYPE 10K PSI SuperG55™

High-pressure
open face bulkhead
(BCR) and flange
receptacles (FCR)



The SuperG55™ family of dry-mate underwater deep-sea high-pressure connectors are a revolutionary new design of the popular industry-standard used in countless ROV, underwater camera, diver communications, lights, pan and tilts, and other deep subsea applications.

Available in multiple shell sizes, the SuperG55™ is manufactured from 316L Stainless Steel with insert molded contact assemblies designed for pressure-sealed applications up to 10K PSI mated and unmated. Intermateable and intermountable with other "55" series connectors, the Glenair solution introduces a long list of product innovations designed to improve performance and durability. Our PBOF versions, for example, utilize

easy-to-assemble threaded fittings which deliver both superior sealing performance while reducing installation time. Other innovations include full-mate inspection ports, improved solder cup contact design and more. Cable plugs and receptacles available in attachable (user-terminatable) versions as well as factory overmolded single-ended whips.

- 10,000 PSI mated/unmated (approx. 22,500ft/7,000m)
- Recessed socket contacts in plugs for electrical safety
- Intermateable and intermountable with other "55" series connectors
- 4 shell sizes — 15, 20, 24 and 32 with 3 to 39 contacts
- PBOF versions available
- 600 VDC, 5 to 18 Amps (dependent on conductor and cable size and make-up)



Bulkhead Connector Receptacle (BCR)



Factory-terminated overmolded Cable Connector Plug (CCP)



Flange Connector Receptacle (FCR)

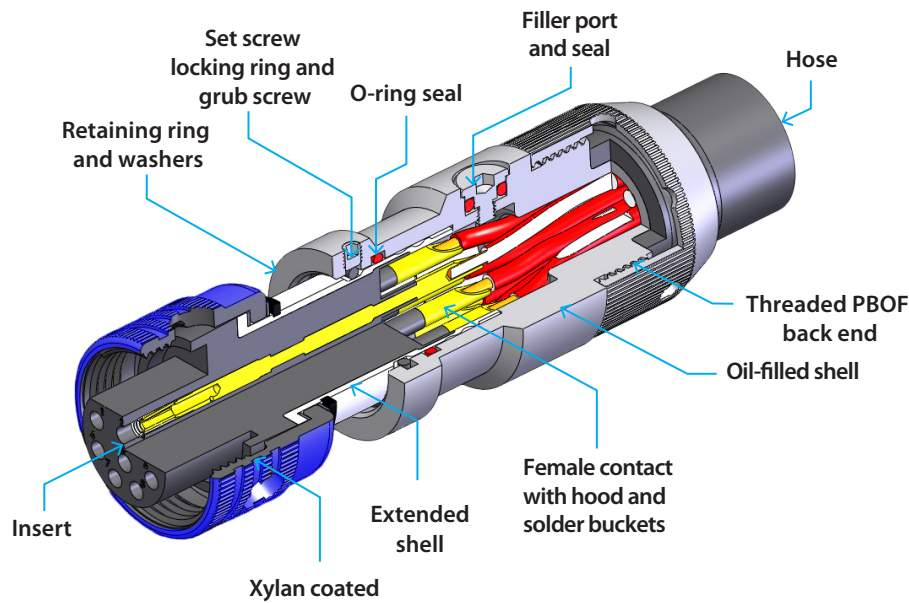


10K PSI / 700 BAR / 7000M Advanced-Performance Series 55 Type SuperG55 10K PSI



Key mechanical and environmental features

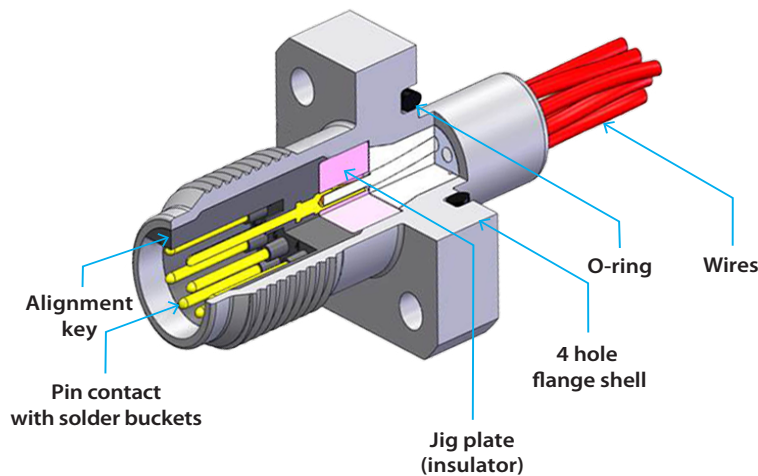
SUPERG55™ PRESSURE-BALANCED OIL-FILLED CABLE CONNECTOR PLUG (CCP)



SuperG55™ Performance Specifications	
Mating Cycles	500
Pressure	689 Bar (10,000 PSI) Mated and Un-mated
Operating Temperature	-20°C to +90°C
Voltage Rating	600 VDC / 440 Vac
Current (max.)	5 to 18 Amps (dependant on contact and cable conductor sizes)

SuperG55™ Material/Finish	
Shells	316L Stainless Steel/ Passivated
Insulator	PEEK/NA
Insert	Neoprene/NA
Contacts	Copper Alloy/Gold Plated
O-rings	Nitrile/NA
Overmold and Cable	Polyurethane or Neoprene/NA
Coupling Nut	316L Stainless Steel/ Protective Coating Blue
Bulkhead Receptacle Tails	PTFE Insulated 16 AWG Wire/NA
Cable	Polyurethane or Neoprene Jacketed/NA

SUPERG55™ FLANGE CONNECTOR RECEPTACLE (FCR)



NON-STANDARD MATERIALS: Other material options are available as part of our non-catalog offerings including anodized aluminum, titanium, and aluminum bronze. Glenair is also able to supply SuperG55™ interconnects in composite thermoplastic (PEEK) to meet application requirements for reduced cathodic corrosion as well as weight reduction without affecting connector performance.

HIGH-SPEED ETHERNET: The SuperG55™ Ethernet option is available in the 1508, 2013 and 2022 contact configurations and provides both high speed (Up to 1GB) and power (600 Volts) in a full subsea environment (10,000 PSI). Gigabit speed data transfer up to a distance of 75mtrs.

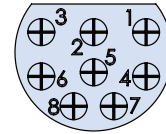
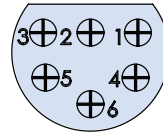
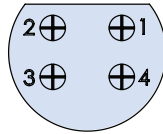
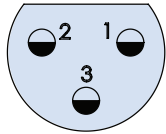
Material Finish Codes			
Code	Material/Finish	Code	Material/Finish
	Anodized Aluminum	PK	Composite Thermoplastic (PEEK)
NAB2	Aluminum Bronze	B	Brass
T	Titanium	Alternative materials available, contact factory	



10K PSI / 700 BAR / 7000M Advanced-Performance Series 55 Type SuperG55 10K PSI Insert arrangements



SUPERG55™ INSERT ARRANGEMENTS Mating face view of pin insert (socket insert IDs are reversed)



Shell Size 15

1503

3 Size #12 AWG
Contacts

1504

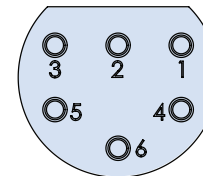
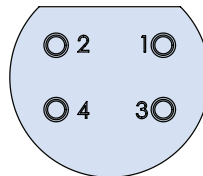
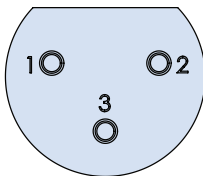
4 Size #16 AWG
Contacts

1506

6 size #16 AWG
Contacts

1508*

8 size #16 AWG
Contacts



Shell Size 20

2003

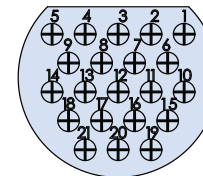
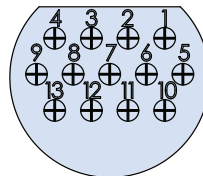
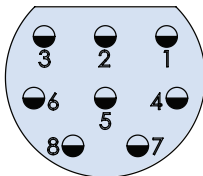
3 Size #10 AWG
Contacts

2004

4 Size #10 AWG
Contacts

2006

6 Size #10 AWG
Contacts



Shell Size 20

2008*

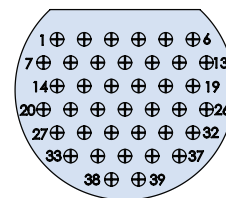
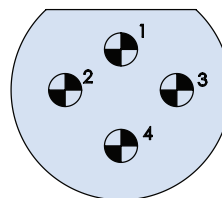
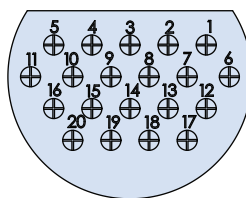
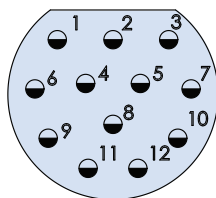
8 Size #12 AWG
Contacts

2013*

13 Size #16 AWG
Contacts

2022*

21 Size #16 AWG
Contacts



Shell Size 24

2412

12 Size #12 AWG
Contacts

2420

20 Size #16 AWG
Contacts

Shell Size 32

3204***

4 Size #6 AWG
Contacts

3239**

39 Size #16 AWG
Contacts

Bulkhead Mounting Torque (Values are for dry non-lubricated threads)	Size 15 - 14.12NM (125LB. INS.)
	Size 20 - 18.64NM (165LB.INS.)
	Size 24 - 25.42NM (225LB.INS.)
	Size 32 - TBD

*Compatible with high-speed Ethernet
 **3239 is not intermateable with any other brand of
 connector. Contact factory for details
 *** Contact factory for availability
 Custom insert arrangements available, contact factory.



10K PSI / 700 BAR / 7000M
Advanced-Performance
Series 55 Type SuperG55 10K PSI
SuperG55 Series connectors



G55 A1 ATTACHABLE CABLE CONNECTOR PLUG (CCP)



SuperG55™ - How To Order	
Sample Part Number	G55A1 -1508 -0000
Series	SuperG55™ = underwater dry-mate, long version (CCP), attachable
Shell Size/Insert Arrangement Size	See shell size / insert arrangements (page 48)
Overall Length	In feet (0000 = no cable, 0001 = one foot, etc.)
Potting Boot	PB = potting boot; omit for none. Not required if used for OFR1
Material Option	Omit for stainless steel B = brass coupling nut and barrel PK = peek coupling nut and barrel See material options on page 47

G55 01 STRAIGHT OVERMOLDED, CABLE PLUG (CCP)



SuperG55™ - How To Order	
Sample Part Number	G5501 -1508 -0004
Series	SuperG55™ = underwater dry-mate, straight overmolded CCP
Shell Size/Insert Arrangement	See shell size / insert arrangements (page 48)
Cable Length	In feet (0001 = one foot, 0002 = two feet etc.)
Inch Increments	3, 6 or 9 inches; omit for whole feet lengths
Material Option	Omit for stainless steel B = brass coupling nut and barrel PK = peek coupling nut and barrel See material options on page 47
Back-to-Back	B2B = back-to-back; omit if not required

G55 R1 RIGHT ANGLE OVERMOLDED, CABLE CONNECTOR PLUG (CCP)



SuperG55™ - How To Order	
Sample Part Number	G55R1 -1508 -0004
Series	SuperG55™ = underwater dry-mate, right angle overmolded CCP
Shell Size/Insert Arrangement	See shell size / insert arrangements (page 48)
Cable Length	In feet (0001 = one foot, 0002 = two feet etc.)
Inch Increments	3, 6 or 9 inches; omit for whole feet lengths
Material Option	Omit for stainless steel B = brass coupling nut and barrel PK = peek coupling nut and barrel See material options on page 47
Back-to-Back	B2B = back-to-back; omit if not required



10K PSI / 700 BAR / 7000M
Advanced-Performance
Series 55 Type SuperG55 10K PSI
SuperG55 Series connectors



G55 OF1 STRAIGHT OIL-FILLED CABLE CONNECTOR PLUG (CCP)



SuperG55™ - How To Order				
Sample Part Number	G55OF1	-1508	-0010	
Series	SuperG55™ = Underwater dry-mate, straight oil-filled CCP			
Shell Size/Insert Arrangement	See shell size / insert arrangements (page 48)			
Overall Length	In feet (0000 = no cable, no hose 0001 = one foot, etc.)			
Back-to-Back*	B2B = back-to-back (min. 7ft hose length); omit if not required			

*Consult factory for additional back-to-back options

G55 OFR1 RIGHT ANGLE OIL-FILLED CABLE CONNECTOR PLUG (CCP)



SuperG55™ - How To Order				
Sample Part Number	G55OFR1	-1508	-0010	
Series	SuperG55™ = Underwater dry-mate, right angle oil-filled CCP			
Shell Size/Insert Arrangement	See shell size / insert arrangements (page 48)			
Overall Length	In feet (0000 = no cable, no hose 0001 = one foot, etc.)			
Back-to-Back*	B2B = back-to-back (min. 7ft hose length); omit if not required			

*Consult factory for additional back-to-back options

G55 06 FLANGE CONNECTOR RECEPTACLE (FCR)



SuperG55™ - How To Order				
Sample Part Number	G5506	-2013	-0004	
Series	SuperG55™ = underwater dry-mate, flange connector receptacle (FCR)			
Shell Size/Insert Arrangement	See shell size / insert arrangements (page 48)			
Cable Length	In feet (0001 = 1 foot, 0004 = 4 feet, standard length)			
Material Option	Omit for stainless steel B = brass coupling nut and barrel	PK = peek coupling nut and barrel See material options on page 47		



10K PSI / 700 BAR / 7000M
Advanced-Performance
Series 55 Type SuperG55 10K PSI
SuperG55 Series connectors

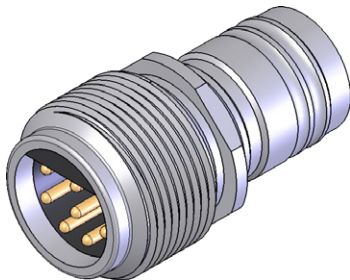


G55 07 BULKHEAD CONNECTOR RECEPTACLE (BCR)



SuperG55™ - How To Order				
Sample Part Number	G5507	-1508	-0004	
Series	SuperG55™ = underwater dry-mate, bulkhead connector receptacle (BCR)			
Shell Size/Insert Arrangement	See shell size / insert arrangements (page 48)			
Cable Length	In feet (0001 = 1 foot, 0004 = 4 feet, standard length)			
Material Option	Omit for stainless steel B = brass coupling nut and barrel		PK = peek coupling nut and barrel See material options on page 47	

G55 A2 ATTACHABLE CABLE CONNECTOR RECEPTACLE (CCR)



SuperG55™ - How To Order				
Sample Part Number	G55A2	-1508	-0000	
Series	SuperG55™ = underwater dry-mate, attachable cable connector receptacle (CCR)			
Shell Size/Insert Arrangement	See shell size / insert arrangements (page 48)			
Cable Length	In feet (0000 = no cable, 0001 = one foot, etc.)			
Material Option	Omit for stainless steel B = brass coupling nut and barrel		PK = peek coupling nut and barrel See material options on page 47	

*Currently only 1504, 1506, 1508, 2013, 2022 & 2420 insert arrangements are available.

G55 02 STRAIGHT OVERMOLDED CABLE CONNECTOR RECEPTACLE (CCR)



SuperG55™ - How To Order					
Sample Part Number	G5502	-1508	-0004		
Series	SuperG55™ = underwater dry-mate, straight overmolded CCR				
Shell Size/Insert Arrangement	See shell size / insert arrangements (page 48)				
Cable Length	In feet (0001 = one foot, 0002 = two feet etc.)				
Inch Increments	3, 6 or 9 inches; omit for whole feet lengths				
Material Option	Omit for stainless steel B = brass coupling nut and barrel		PK = peek coupling nut and barrel See material options on page 47		
Back-to-Back	B2B = back-to-back; omit if not required				



10K PSI / 700 BAR / 7000M
Advanced-Performance
Series 55 Type SuperG55 10K PSI
SuperG55 Series connectors



G55 R2 RIGHT ANGLE OVERMOLDED CABLE CONNECTOR RECEPTACLE (CCR)



SuperG55™ - How To Order				
Sample Part Number	G55R2	-1508	-0004	
Series	SuperG55™ = underwater dry-mate, right angle overmolded CCR			
Shell Size/Insert Arrangement	See shell size / insert arrangements (page 48)			
Cable Length	In feet (0001 = one foot, 0002 = two feet etc.)			
Inch Increments	3, 6 or 9 inches; omit for whole feet lengths			
Material Option	Omit for stainless steel B = brass coupling nut and barrel		PK = peek coupling nut and barrel See material options on page 47	
Back-to-Back	B2B = back-to-back; omit if not required			

G55 OF2 STRAIGHT OIL-FILLED CABLE CONNECTOR RECEPTACLE (CCR)



SuperG55™ - How To Order				
Sample Part Number	G55OF2	-1508	-0010	
Series	SuperG55™ = Underwater dry-mate, straight oil-filled CCR			
Shell Size/Insert Arrangement*	See shell size / insert arrangements (page 48)			
Overall Length	In feet (0000 = no cable, no hose, 0001 = one foot, etc.)			
Back-to-Back**	B2B = back-to-back (min. 7ft hose length); omit if not required			

*Currently only 1504, 1506, 1508, 2013, 2022, and 2420 insert arrangements are available
 **Consult factory for additional back-to-back options

G55 OFR2 RIGHT ANGLE OIL-FILLED CABLE CONNECTOR RECEPTACLE (CCR)



SuperG55™ - How To Order				
Sample Part Number	G55OFR2	-1508	-0010	
Series	SuperG55™ = Underwater dry-mate, right angle oil-filled CCR			
Shell Size/Insert Arrangement*	See shell size / insert arrangements (page 48)			
Overall Length	In feet (0000 = no cable, no hose, 0001 = one foot, etc.)			
Back-to-Back*	B2B = back-to-back (min. 7ft hose length); omit if not required			

*Currently only 1504, 1506, 1508, 2013, 2022, and 2420 insert arrangements are available
 **Consult factory for additional back-to-back options



10K PSI / 700 BAR / 7000M
Advanced-Performance
Series 55 Type SuperG55 10K PSI
SuperG55 Series connectors

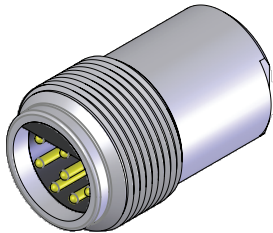


G55 D1 DUMMY SEALING PLUG (DSP)



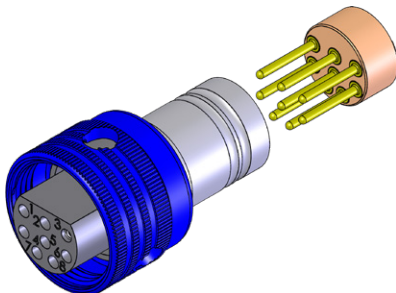
SuperG55™ - How To Order				
Sample Part Number	G55D1	-1508	-0000	
Series	SuperG55™ = dummy sealing plug (DSP)			
Shell Size/Insert Arrangement	See shell size / insert arrangements (page 48)			
Cable Length	0000 = no cable			
Material Option	Omit for stainless steel B = brass coupling nut and barrel		PK = peek coupling nut and barrel See material options on page 47	

G55 D2 DUMMY SEALING RECEPTACLE (DSR)



SuperG55™ - How To Order				
Sample Part Number	G55D2	-1508	-0000	
Series	SuperG55™ = dummy sealing receptacle (DSR)			
Shell Size/Insert Arrangement	See shell size / insert arrangements (page 48)			
Cable Length	0000 = no cable			
Material Option	Omit for stainless steel B = brass coupling nut and barrel		PK = peek coupling nut and barrel See material options on page 47	

G55 M1 SOCKET TO SOCKET (CCP)



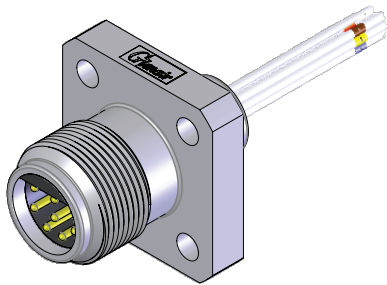
SuperG55™ - How To Order				
Sample Part Number	G55M1	-1508	-0001	
Series	SuperG55™ = underwater dry-mate, back-to-back socket CCP			
Shell Size/Insert Arrangement	See shell size / insert arrangements (page 48)			
Cable Length	In feet (0000 = no cable, 0001 = one foot, etc.)			
Material Option	Omit for stainless steel B = brass coupling nut and barrel		PK = peek coupling nut and barrel See material options on page 47	



10K PSI / 700 BAR / 7000M
Advanced-Performance
Series 55 Type SuperG55 10K PSI
SuperG55 Series custom connectors



G55 06 FLANGE CONNECTOR RECEPTACLE (FCR) WITH EARTH LEAD



SuperG55™ - How To Order					
Sample Part Number	G5506	-1508	-0004	-EL	
Series	SuperG55™ = underwater dry-mate, FCR with earth lead				
Shell Size/Insert Arrangement	See shell size / insert arrangements (page 48)				
Cable Length	In feet (0001 = 1 foot, 0004 = 4 feet, standard length)				
Earth Lead	EL = earth lead (ground)				
Material Option	T = titanium; omit for stainless steel				

G55 07 BULKHEAD CONNECTOR RECEPTACLE (BCR) WITH EARTH LEAD



SuperG55™ - How To Order					
Sample Part Number	G5507	-1508	-0004	-EL	
Series	SuperG55™ = underwater dry-mate, BCR with earth lead				
Shell Size/Insert Arrangement	See shell size / insert arrangements (page 48)				
Cable Length	In feet (0001 = 1 foot, 0004 = 4 feet, standard length)				
Earthing Lead	EL = earth lead (ground)				
Material Option	T = titanium; omit for stainless steel				

G55 061F FLANGE CONNECTOR RECEPTACLE (FCR) WITH INDEXABLE FLANGE



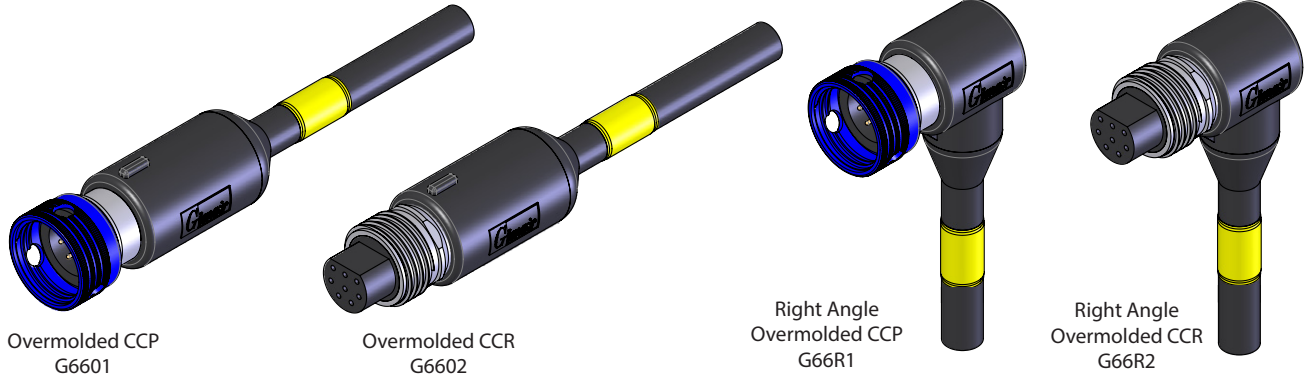
SuperG55™ - How To Order					
Sample Part Number	G55061F	-1508	-0004		
Series	SuperG55™ = underwater dry-mate, flange connector receptacle (FCR) with indexable flange				
Shell Size/Insert Arrangement	See shell size / insert arrangements (page 48)				
Cable Length	In feet (0001 = 1 foot, 0004 = 4 feet, standard length)				
Material Option	Omit for stainless steel B = brass coupling nut and barrel		PK = peek coupling nut and barrel See material options on page 47		



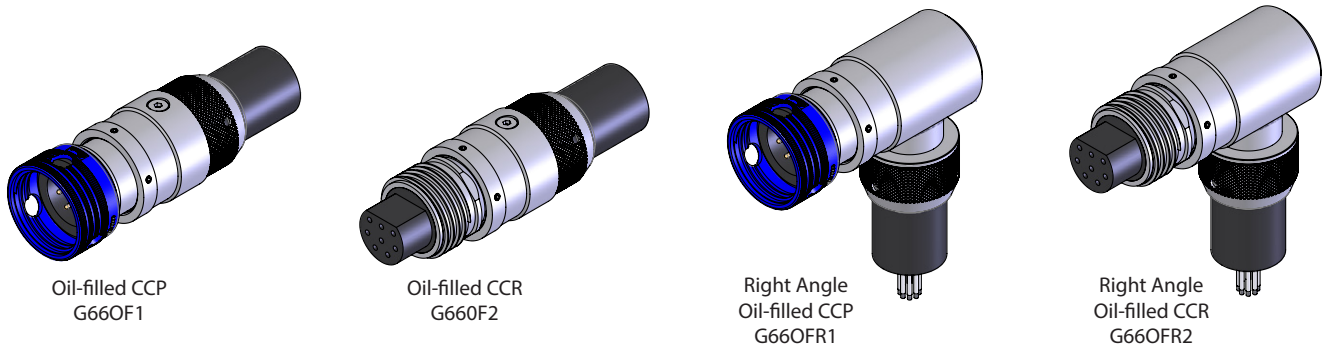
10K PSI / 700 BAR / 7000M
Advanced-Performance
Series 66 Type SuperG66 10K PSI
SuperG66 reverse-gender connectors



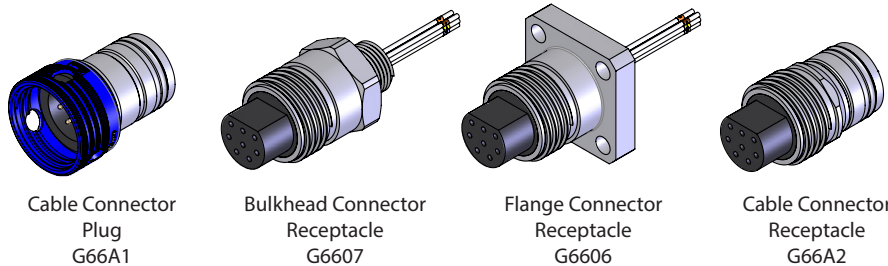
G66 OVERMOLDED CABLE CONNECTOR PLUGS AND RECEPTACLES



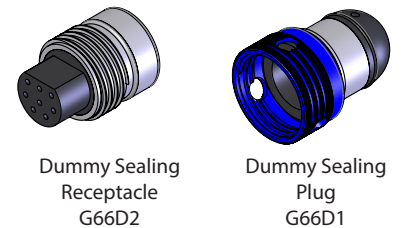
G66 OIL-FILLED CABLE CONNECTOR PLUGS AND RECEPTACLES



G66 CABLE CONNECTOR PLUGS AND BULKHEAD, FLANGE AND CABLE CONNECTOR RECEPTACLES

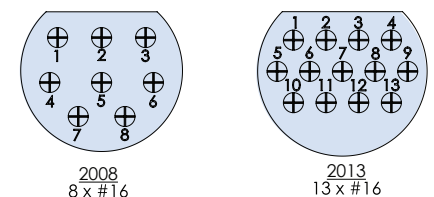


DUMMY SEALING PLUG AND RECEPTACLE



COMING SOON: SuperG66™ - Consult factory for availability				
Sample Part Number	G66A1	-2008	-0000	
Series	SuperG66™ = underwater dry-mate, cable connector plug (CCP)			
Shell Size/Insert Arrangement	See shell size / insert arrangements (page 48)			
Cable Length	0000 = no cable; also available in specified lengths for test purposes			
Material Option	Omit for stainless steel PK = peek coupling nut and barrel B = brass coupling nut and barrel Reference material options on page 47			
Potting Boot	PB = potting boot; omit if not required. Not required if changed to OFR1			

INSERT ARRANGEMENTS



Additional insert arrangements can be engineered, contact factory