

55 SERIES

SPECIFICATION

The SEA CON® 55 Series of underwater electrical connectors contain significant design improvements over other industry standard connectors, whilst maintaining compatibility and interchangeability with them. This connector range is also available in PEEK (Polyetheretherketone) which was selected for it's superior chemical resistance, excellent electrical properties, wear and abrasion resistance and light weight. This PEEK series of connectors are not affected by corrosion or cathodic delamination.

FEATURES:

- Manufactured in the United Kingdom.
- Industry standard compatibility.
- Proven sealing technology.
- Heavy duty Stub Acme threads.*
- Pressure rated Blanking Caps available.

MATERIALS:

- Connector shell (standard): 316 Stainless Steel. Passivated and electro-polished.
- Connector shell (options): Titanium, Aluminium Bronze, Alloy 625 and PEEK (Polyetheretherketone). Others available upon request.
- Engaging nut (standard): 316 Stainless Steel. Coated with special anti-galling compound.
- Engaging nut (options): Titanium, Aluminium Bronze, Alloy 625. Others available upon request.
- Pin contact: Copper Alloy: Gold Plated per MIL-G-45204.
- Socket contact:** Copper Alloy. Gold Plated per MIL-G-45204.
- Connector body (standard): Neoprene.
- Connector body (options): Nitrile, Hypalon. Others available upon request.
- Overmould (standard): Neoprene, Nitrile, Hypalon. Others available upon request.
- Cable (standard): Neoprene.
- Cable (options): Polyurethane, Polyethylene. Others available upon request.
- Bulkhead Tails (standard): P.T.F.E. insulated, #16 A.W.G. Silver plated, Copper wire.
- Bulkhead Tails (options): Specification 44, #16 A.W.G. Silver plated, Copper wire.

RATINGS:

- Pressure (maximum): 10,000 pounds/inch (mated or unmated).
- Voltage (standard): 600 Vdc/440 Vac.
- Current (maximum): 5 amps to 18 amps.***

HANDLING:

- Ensure the bulkhead interface is machined in accordance with the manufacturers recommendations and free from contaminants prior to fitting of the connector.
- Ensure the plug and receptacle connectors are free from contaminants prior to fitting.
- Apply a thin film of silicone compound (e.g. DC-4) to the bulkhead receptacle connector 'o' seal prior to fitting.
- Apply a thin film of silicone compound (e.g. DC-4) to the plug connector face seal prior to assembly with the receptacle connector.

TORQUE:

The following Torque figures are recommended when mounting the Bulkhead connectors (5507).

Shell Size	Inch / Pounds
15	125
20	165
24	225
32	325

* Except shell size 15.

** Incorporates Multilam™ insert.

*** Dependant on contact and cable conductor size.
