



## U-Mate - Specification

The U-MATE series, launched in March 1995, are a metal shell derivative of the highly successful WET-CON™ range of underwater mateable connectors. The U-MATE design incorporates gold plated electrical contacts, individual contact sealing and positive keying on the metal shell.

### Features:

- Underwater Mateable.
- Manufactured in the United Kingdom.
- Positive keying on metal shells.
- Proven sealing technology.
- Heavy duty Acme threads.
- Gold plated contacts to MIL-G-45204.

### Materials:

- Connector shell (standard): 316L Stainless Steel. Passivated and electro-polished.
- Connector shell (options): Titanium, Aluminium Bronze, Alloy 625. Others available upon request.
- Engaging nut (standard): Aluminium Bronze.
- Engaging nut (options): Titanium, 316L Stainless Steel (coated with special anti-galling compound), 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.
- Overmould (options): 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): 5,000 pounds/inch<sup>2</sup> (mated or unmated).
- Voltage (standard): 600 Vdc/440 Vac.
- Current (maximum): 10 Amps.

### Handling:

- Ensure the bulkhead interface is machined in accordance with the manufacturer 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.