

3: Underwater Mateable Electrical Connector (Metal Keyed)



HMK (Hydrobond Metal Keyed) Connector

FEATURES

- Underwater Mateable
- Positive metal key prevents misalignment and rotation
- Scoop proof
- Proven shock tested design
- Depth rated to 2,440 MSW, higher pressure rated versions available on request
- Fully open face pressure sealed
- Metal Shell Construction protects contacts from mechanical stress
- Available in 5 shell sizes
- Bulkhead Mount and Panel Mount Designs available as standard
- Mounting O – Ring face seals and optional Barrel seals available as standard
- Acetal dust caps included on all connectors (additional lanyards on request)
- Pin Densities from 1 to 70 ways
- Voltage ratings up to 3,300 Volts RMS
- Current ratings up to 400 Amps
- Standard and Reverse gender configurations available
- Available in 316 Stainless Steel as standard or Titanium, Aluminium Silicon Bronze, Nickel Aluminium Bronze etc on request.
- Non Magnetic versions available
- 1 metre conductor tails on all bulkhead connectors as standard with other lengths on request
- Optional Earth Bonding
- Optional Cathodic delamination version available
- Termination options include fully water blocked, mechanical strain terminations and oil filled options
- Moulding options include Polyurethane and Polyethylene

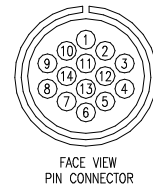
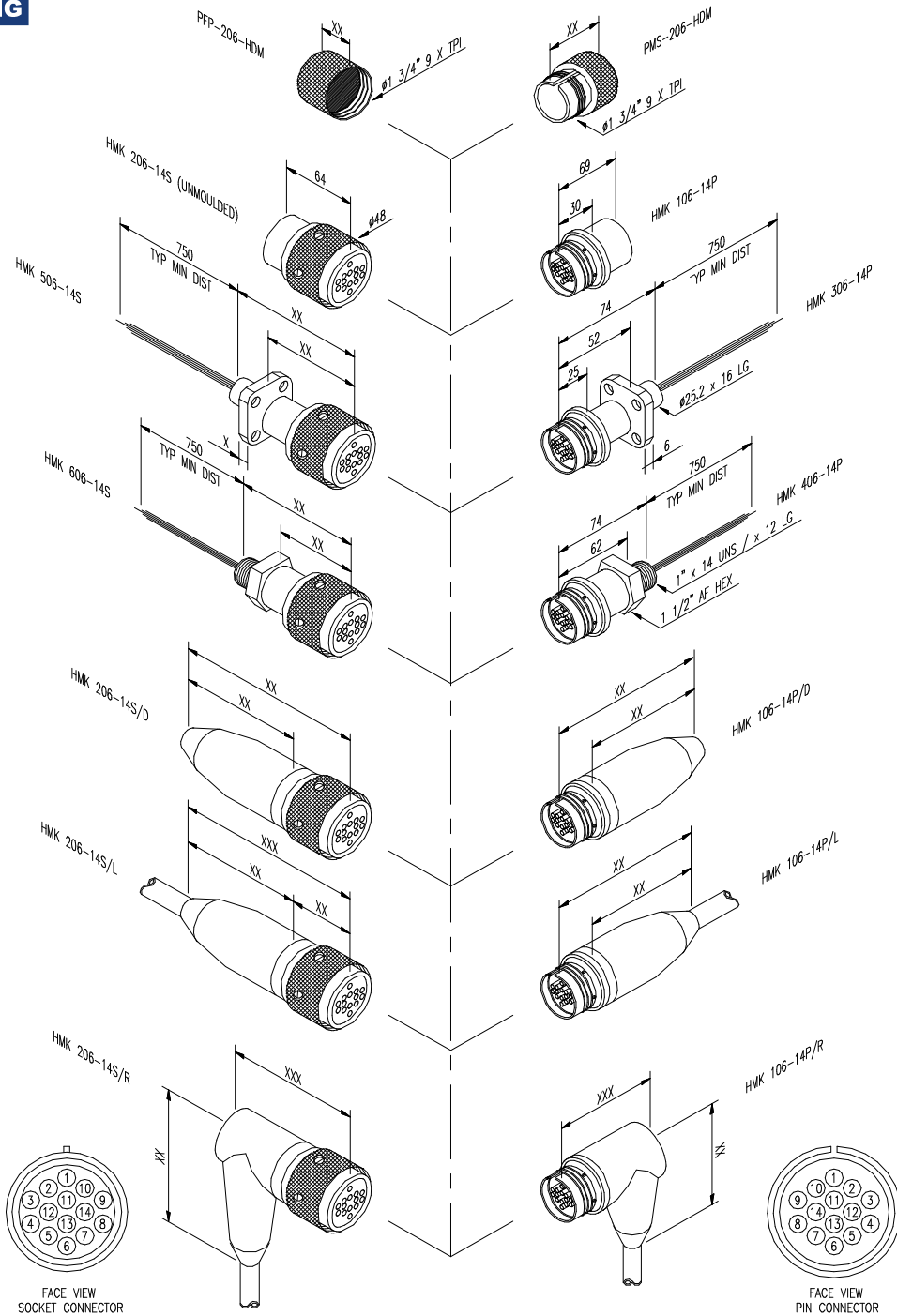
BENEFITS

- Cost effective diver mateable solution
- Excellent connector protection
- Improved pin to socket contact
- Easy to use
- Interchangeable mounting with HRS series connectors
- Wide variety of pin configurations allows cost effective system design
- Standard and reverse gender configurations allow for safe system design
- Wide variety of metal options allows for best corrosion resistant design

**HYDRO
BOND**

ENGINEERING

HMK (Hydrobond Metal Keyed) Underwater Mateable Connector HMK_06-14



Electrical and Environmental:

Pin Current Rating: 8 Amps
 Pin Voltage Rating: 2,000 V rms
 Contact to Contact IR: >1,000 MOhms @ 1,000 V dc
 Contact to Body IR: >1,000 MOhms @ 1,000 V dc
 Mated Depth Rating: 2,440 MSHws
 Temperature Rating: -20 ° C to +60 ° C
 Conductor Tail Size: 18 AWG
 Solder Bucket Size: 1.7 mm

Standard Material Specification:

Body: 316 Stainless Steel
 Fixed Ring: Aluminium Silicon Bronze
 Back Shell: N/A
 Contact Pins: CZ121/Au
 Contact Sockets: CZ121/Au
 Insert Material: Neoprene
 Conductor Tails: Spec 44 X 1.0 m.
 O – Rings: NI70

Data Sheet:

Issue: 02
 Approved by:

Mechanical:

Lengths = mm
 Threads = Inches
 Mounting Detail:
 See Mounting Detail
 Section of Binder