

**Hydro Bond Engineering Ltd**

## **Surface Mateable Electrical Connectors: High Density Metal Keyed**



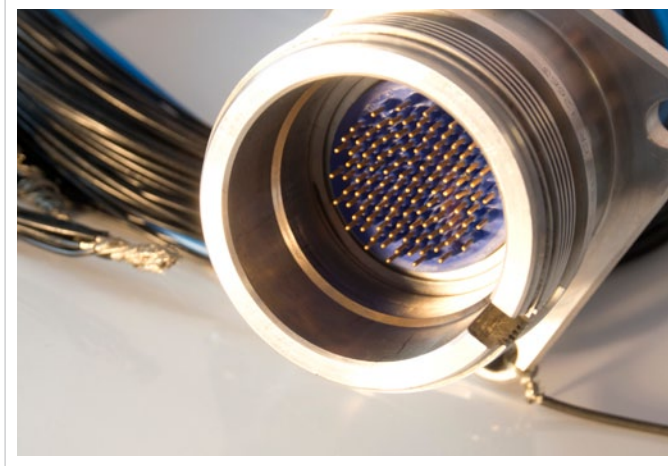
## Surface Mateable Electrical Connectors

### High Density Metal Keyed HDM (Hydro Bond Deck Mate)

Hydro Bond Engineering Ltd offer Surface Mateable Electrical Connectors from its extensive, high integrity range of subsea connectors.

Our in house engineered and developed electrical technology is at the forefront of harsh environment requirements. Our products have been extensively tested both internally and externally and are field proven on major local, national and international projects.

Our Electrical Engineers and Technicians are fully trained and certified on our equipment by City & Guilds.



### Features

- Underwater Mateable, available in 6 shell sizes
- Robust, Compact, High Integrity Design
- Proven shock and vibration tested design
- High Pin Densities from 3 to 73 ways
- Positive Metal Key Way prevents misalignment and rotation
- Scoop proof design
- Barrel O Ring seals for ease of maintenance and reliability
- Locking grub screws on coupling ring
- Fully open face pressure sealed
- Non Magnetic versions available
- Bulkhead Mount and Panel Mount Designs available as standard
- Depth rated to 3,450 MSW standard version. (6,900 MSW on request)
- Mounting O – Ring face seals and optional Barrel seals available as standard
- Hard Gold Plated Contacts and Multi Leaved Sprung Sockets for positive connection
- Acetal dust caps included on all connectors (additional lanyards on request)
- Optional cost effective pressure sealing caps are available in a wide variety of materials
- Voltage ratings up to 3,300 Volts RMS
- Current ratings up to 95 Amps with higher ratings on request
- Standard and Reverse gender configurations available
- Available in 316 Stainless Steel as standard, Titanium, Aluminium Silicon Bronze, Nickel Aluminium Bronze etc. on request
- 1 metre conductor tails on all bulkhead connectors as standard
- Optional Earth Bonding
- Termination options include fully water blocked, mechanical strain terminations and oil filled options
- Moulding options include Polyurethane and Polyethylene



## Surface Mateable Electrical Connectors

### High Density Metal Keyed HDM (Hydro Bond Deck Mate)

#### Benefits

- Long life connector with easily maintained O – Ring seals.
- Designed for continual mate and de-mate usage
- Easy to use pressure sealing caps
- Individual conductor Boot Seals allow mating in adverse conditions.
- Provides the best protection for your expensive electronics.
- Pins are protected during mating cycle
- Extremely cost effective
- Space saving high pin density designs require less space
- 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

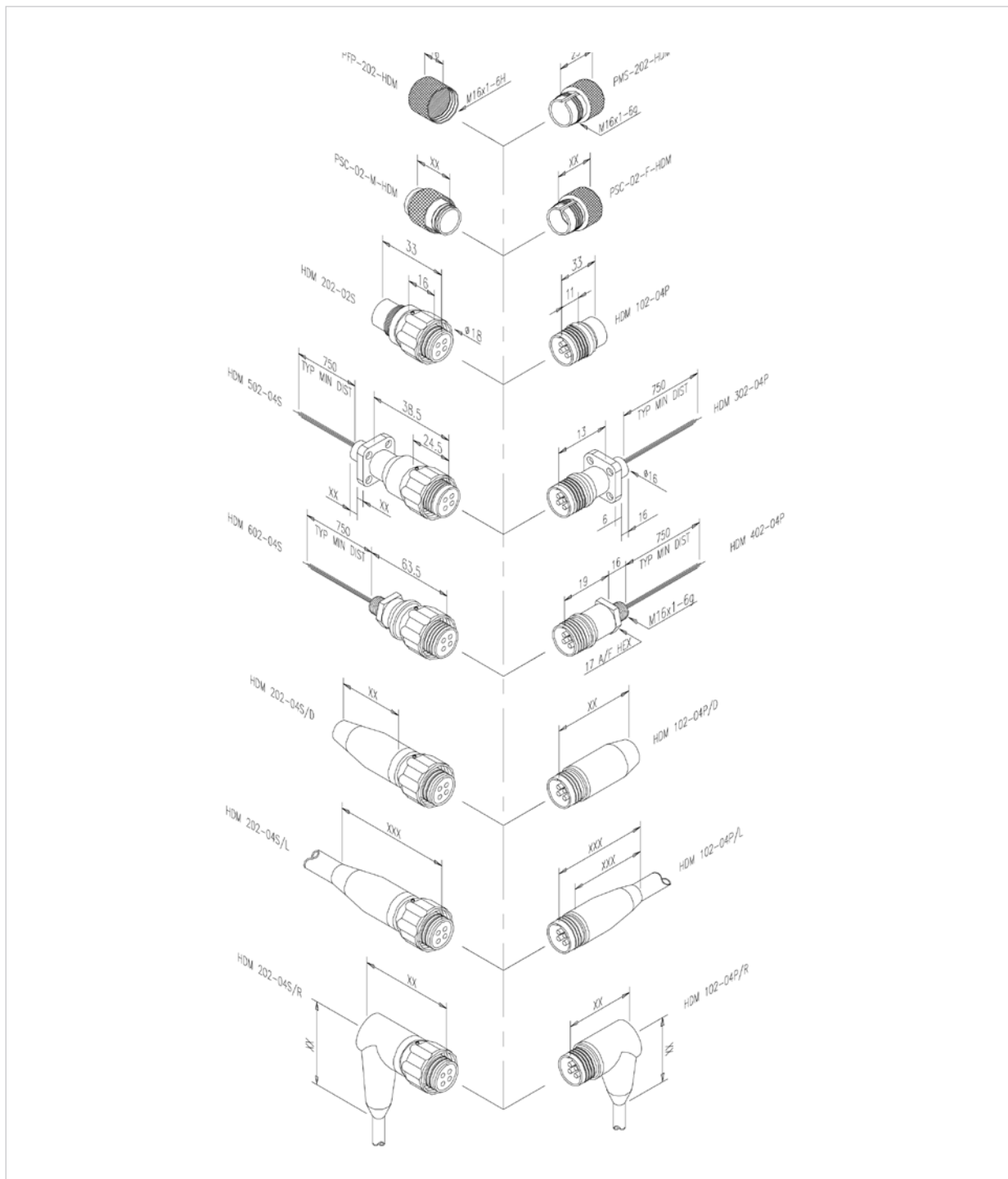


#### Specifications

All HDM (Hydro Bond Deck Mate) Surface Mateable Electrical Connectors have been designed, manufactured and field tested. The following chart features the socket / pin (face view) configuration, together with electrical, environmental and standard material specifications.

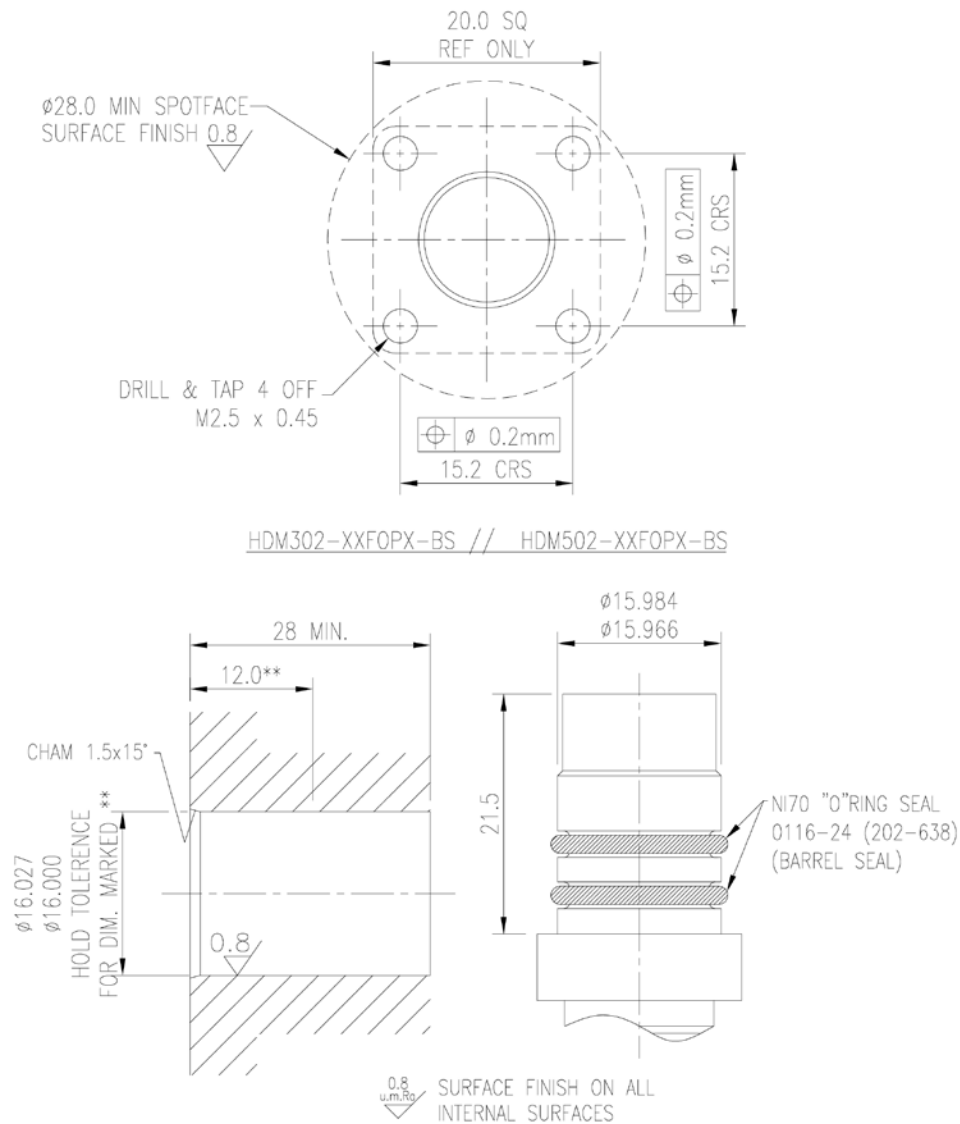
## Surface Mateable Electrical Connectors

## High Density Metal Keyed HDM (Hydro Bond Deck Mate) : [Shell Size 2 / Connector Details](#)



## Surface Mateable Electrical Connectors

### High Density Metal Keyed HDM (Hydro Bond Deck Mate) : **Shell Size 2 / Mounting Details**





#### MOUNTING CONFIGURATIONS

For the full range of mounting configurations for this connector, [please click here.](#)



# Surface Mateable Electrical Connectors

## High Density Metal Keyed HDM (Hydro Bond Deck Mate): **Shell Size 2 / Specifications**

Electrical and Environmental	Standard Material Specification	Face Views
Pin Current Rating: 10 Amps Pin Voltage Rating: 1,000 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: 3,450 MSW Temperature Rating: -20 ° C to +60 ° C Conductor Tail Size: 16 AWG Solder Bucket Size: 1.4 mm dia	Body: 316 Stainless Steel Fix Ring: Aluminium Silicon Bronze Back Shell: N/A Contact Pins: CZ121/Au Contact Sockets: CZ121/Au Insert Material: Peek Conductor Tails: Spec 44 X 1.0 m O – Rings: NI70	<div> <div>Socket</div>  </div> <div> <div>Pin</div>  </div> <p>Ref: HDM 02-04</p>

### Custom Product Design

Not found what you are looking for ?

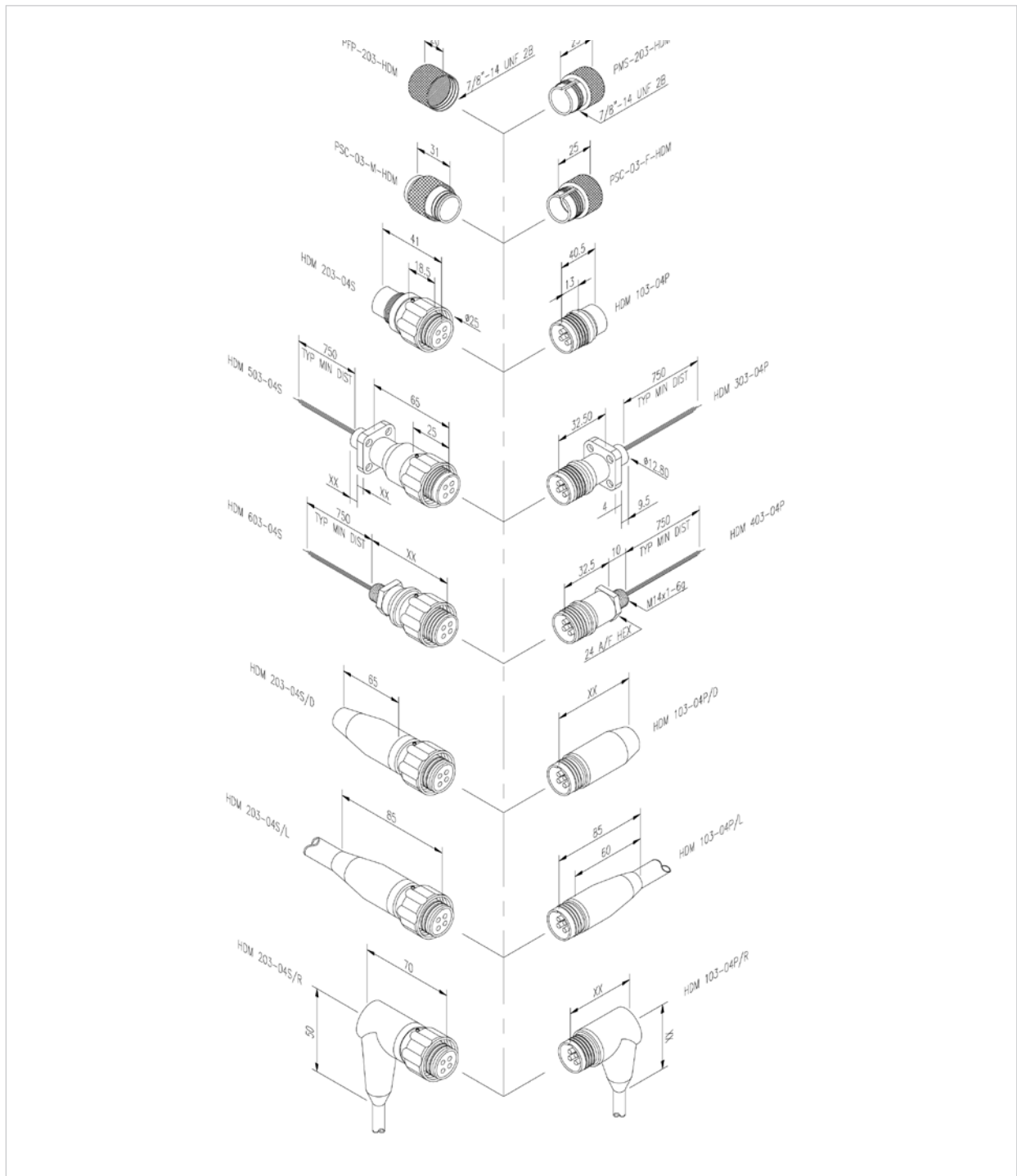
Our in house engineers design, develop, manufacture and test new products to customer specifications.



Please view the following pages for the next Shell Size.

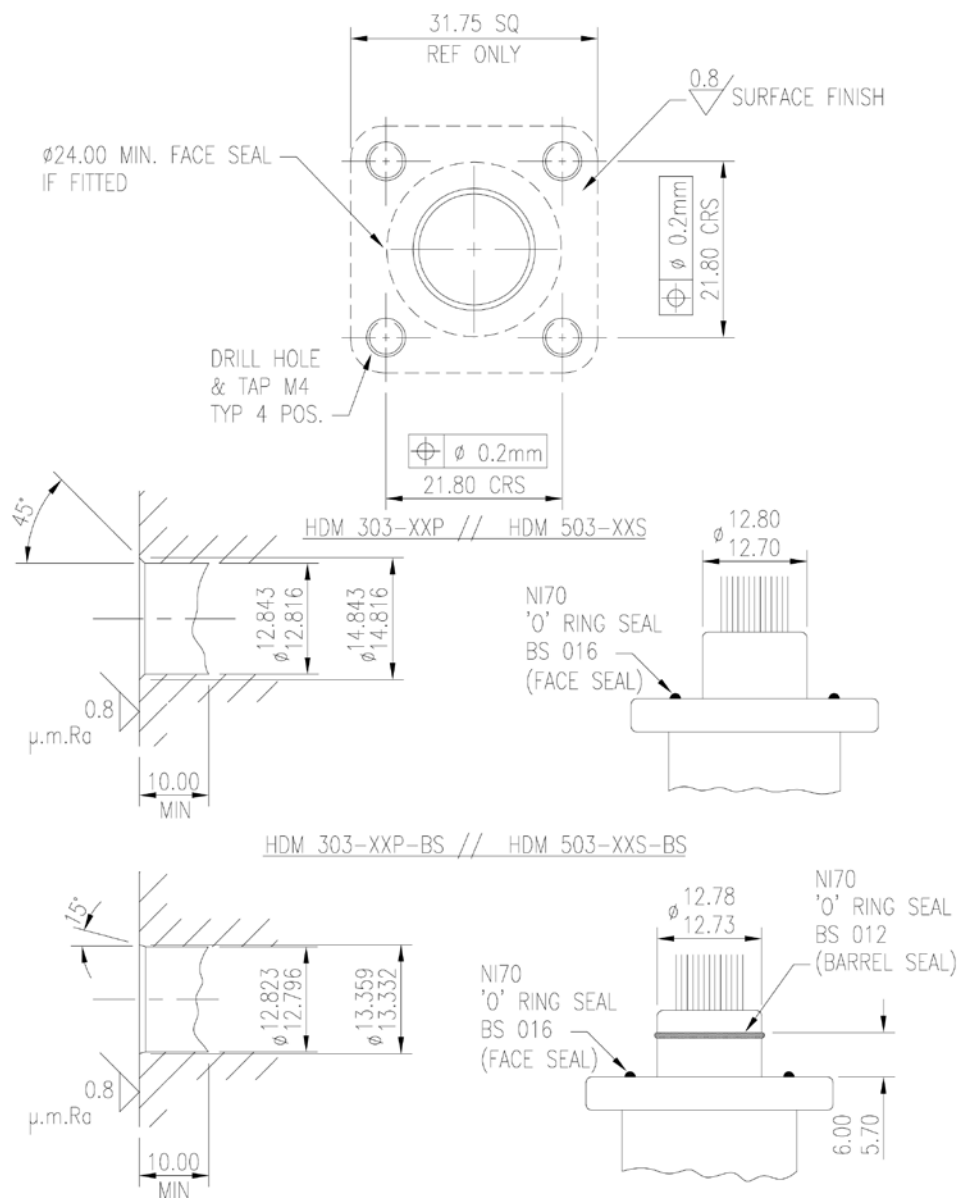
## Surface Mateable Electrical Connectors

### High Density Metal Keyed HDM (Hydro Bond Deck Mate) : **Shell Size 3 / Connector Details**



## Surface Mateable Electrical Connectors

### High Density Metal Keyed HDM (Hydro Bond Deck Mate) : **Shell Size 3 / Mounting Details**







#### MOUNTING CONFIGURATIONS

For the full range of mounting configurations for this connector, [please click here](#).



# Surface Mateable Electrical Connectors

## High Density Metal Keyed HDM (Hydro Bond Deck Mate) : **Shell Size 3 / Specifications**

Electrical and Environmental	Standard Material Specification	Face Views
Pin Current Rating: 1 0 Amps Pin Voltage Rating: 1,000 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: 3,450 MSW Temperature Rating: -20 ° C to +60 ° C Conductor Tail Size: 16 AWG Solder Bucket Size: 1.4 mm dia	Body: 316 Stainless Steel Fix Ring: Aluminium Silicon Bronze Back Shell: N/A Contact Pins: CZ121/Au Contact Sockets: CZ121/Au Insert Material: Peek Conductor Tails: Spec 44 X 1.0 m O – Rings: NI70	<div> <div>Socket</div>  </div> <div> <div>Pin</div>  </div> <p><b>Ref: HDM 03-04</b></p>
Pin Current Rating: 5 Amps Pin Voltage Rating: 1,000 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: 3,450 MSW Temperature Rating: -20 ° C to +60 ° C Conductor Tail Size: 18 AWG Solder Bucket Size: 1.5 mm dia	Body: 316 Stainless Steel Fix Ring: Aluminium Silicon Bronze Back Shell: N/A Contact Pins: CZ121/Au Contact Sockets: CZ121/Au Insert Material: Peek Conductor Tails: Spec 44 X 1.0 m O – Rings: NI70	<div> <div>Socket</div>  </div> <div> <div>Pin</div>  </div> <p><b>Ref: HDM 03-07</b></p>

### Custom Product Design

Not found what you are looking for ?

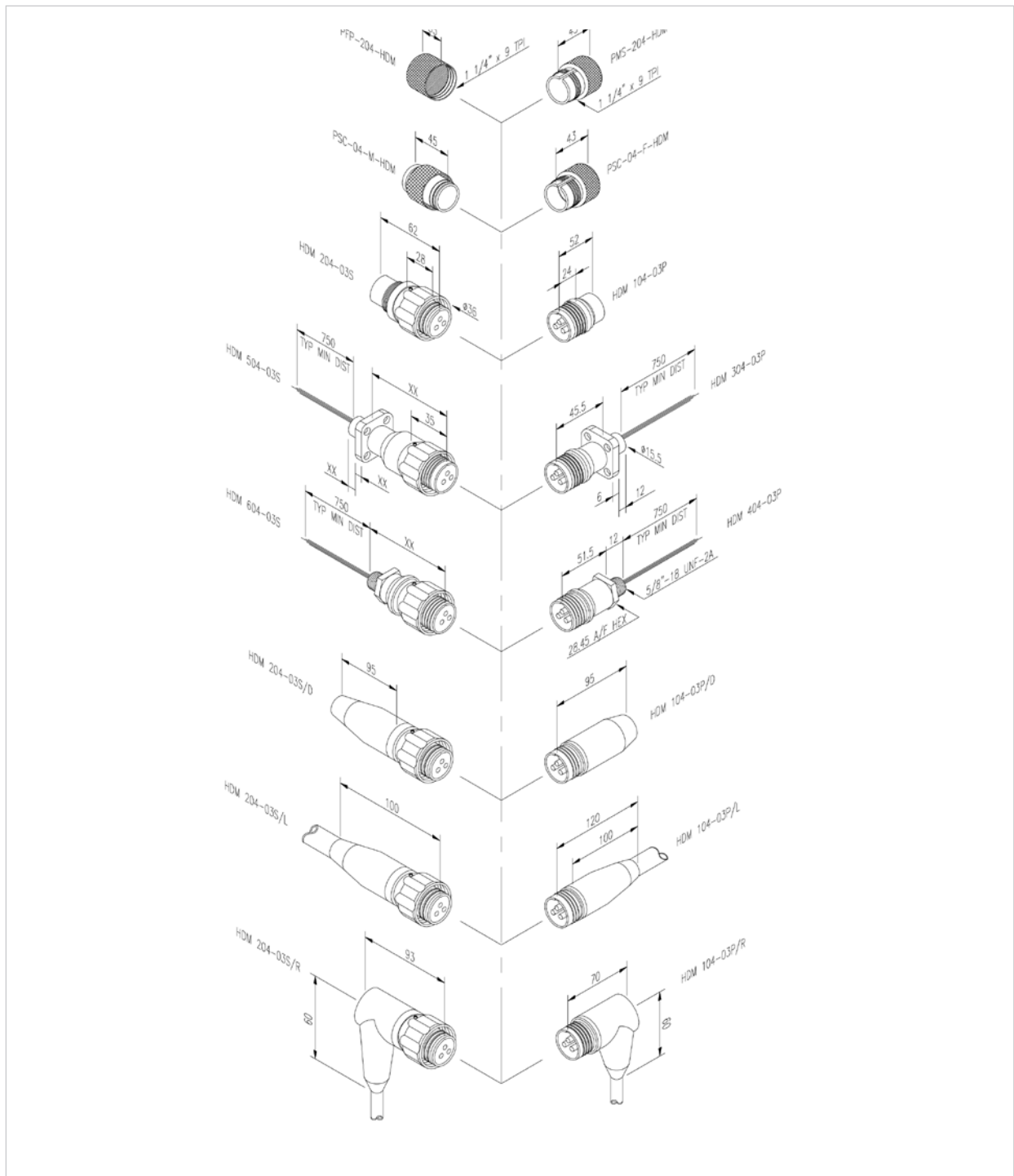
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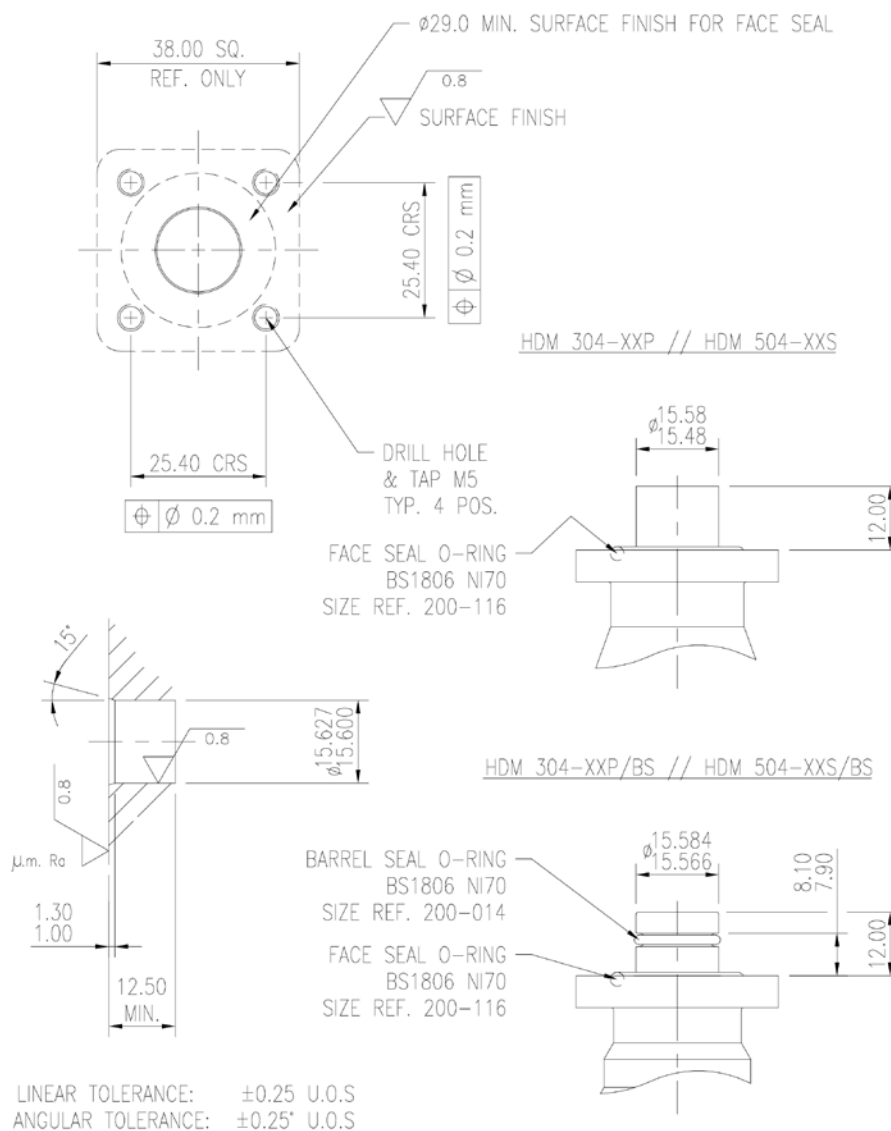
## Surface Mateable Electrical Connectors

### High Density Metal Keyed HDM (Hydro Bond Deck Mate) : **Shell Size 4 / Connector Details**



## Surface Mateable Electrical Connectors

### High Density Metal Keyed HDM (Hydro Bond Deck Mate) : **Shell Size 4 / Mounting Details**

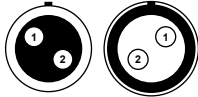
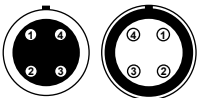
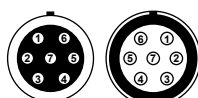
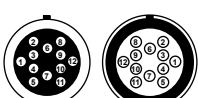
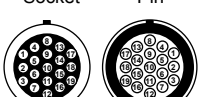


#### MOUNTING CONFIGURATIONS

For the full range of mounting configurations for this connector, [please click here](#).

# Surface Mateable Electrical Connectors

## High Density Metal Keyed HDM (Hydro Bond Deck Mate) : **Shell Size 4 / Specifications**

Electrical and Environmental	Standard Material Specification	Face Views
Pin Current Rating: 35 Amps Pin Voltage Rating: 1,500 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: 3,450 MSW Temperature Rating: -20 ° C to +60 ° C Conductor Tail Size: 9 AWG Solder Bucket Size: 3.2 mm dia	Body: 316 Stainless Steel Fix Ring: Aluminium Silicon Bronze Back Shell: N/A Contact Pins: CZ121/Au Contact Sockets: CZ121/Au Insert Material: Peek Conductor Tails: Spec 44 X 1.0 m O – Rings: NI70	Socket Pin  <b>Ref: HDM 04-02</b>
Pin Current Rating: 10 Amps Pin Voltage Rating: 1,500 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: 3,450 MSW Temperature Rating: -20 ° C to +60 ° C Conductor Tail Size: 16 AWG Solder Bucket Size: 1.6 mm dia	Body: 316 Stainless Steel Fix Ring: Aluminium Silicon Bronze Back Shell: N/A Contact Pins: CZ121/Au Contact Sockets: CZ121/Au Insert Material: Peek Conductor Tails: Spec 44 X 1.0 m O – Rings: NI70	Socket Pin  <b>Ref: HDM 04-04</b>
Pin Current Rating: 8 Amps Pin Voltage Rating: 1,000 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: 3,450 MSW Temperature Rating: -20 ° C to +60 ° C Conductor Tail Size: 16 AWG Solder Bucket Size: 1.4 mm dia	Body: 316 Stainless Steel Fix Ring: Aluminium Silicon Bronze Back Shell: N/A Contact Pins: CZ121/Au Contact Sockets: CZ121/Au Insert Material: Peek Conductor Tails: Spec 44 X 1.0 m O – Rings: NI70	Socket Pin  <b>Ref: HDM 04-07</b>
Pin Current Rating: 4 Amps Pin Voltage Rating: 1,000 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: 3,450 MSW Temperature Rating: -20 ° C to +60 ° C Conductor Tail Size: 20 AWG Solder Bucket Size: 1.2 mm dia	Body: 316 Stainless Steel Fix Ring: Aluminium Silicon Bronze Back Shell: N/A Contact Pins: CZ121/Au Contact Sockets: CZ121/Au Insert Material: Peek Conductor Tails: Spec 44 X 1.0 m O – Rings: NI70	Socket Pin  <b>Ref: HDM 04-12</b>
Pin Current Rating: 4 Amps Pin Voltage Rating: 1,000 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: 3,450 MSW Temperature Rating: -20 ° C to +60 ° C Conductor Tail Size: 18 AWG Solder Bucket Size: 1.2 mm dia	Body: 316 Stainless Steel Fix Ring: Aluminium Silicon Bronze Back Shell: N/A Contact Pins: CZ121/Au Contact Sockets: CZ121/Au Insert Material: Peek Conductor Tails: Spec 44 X 1.0 m O – Rings: NI70	Socket Pin  <b>Ref: HDM 04-19</b>

### Custom Product Design

Not found what you are looking for ?

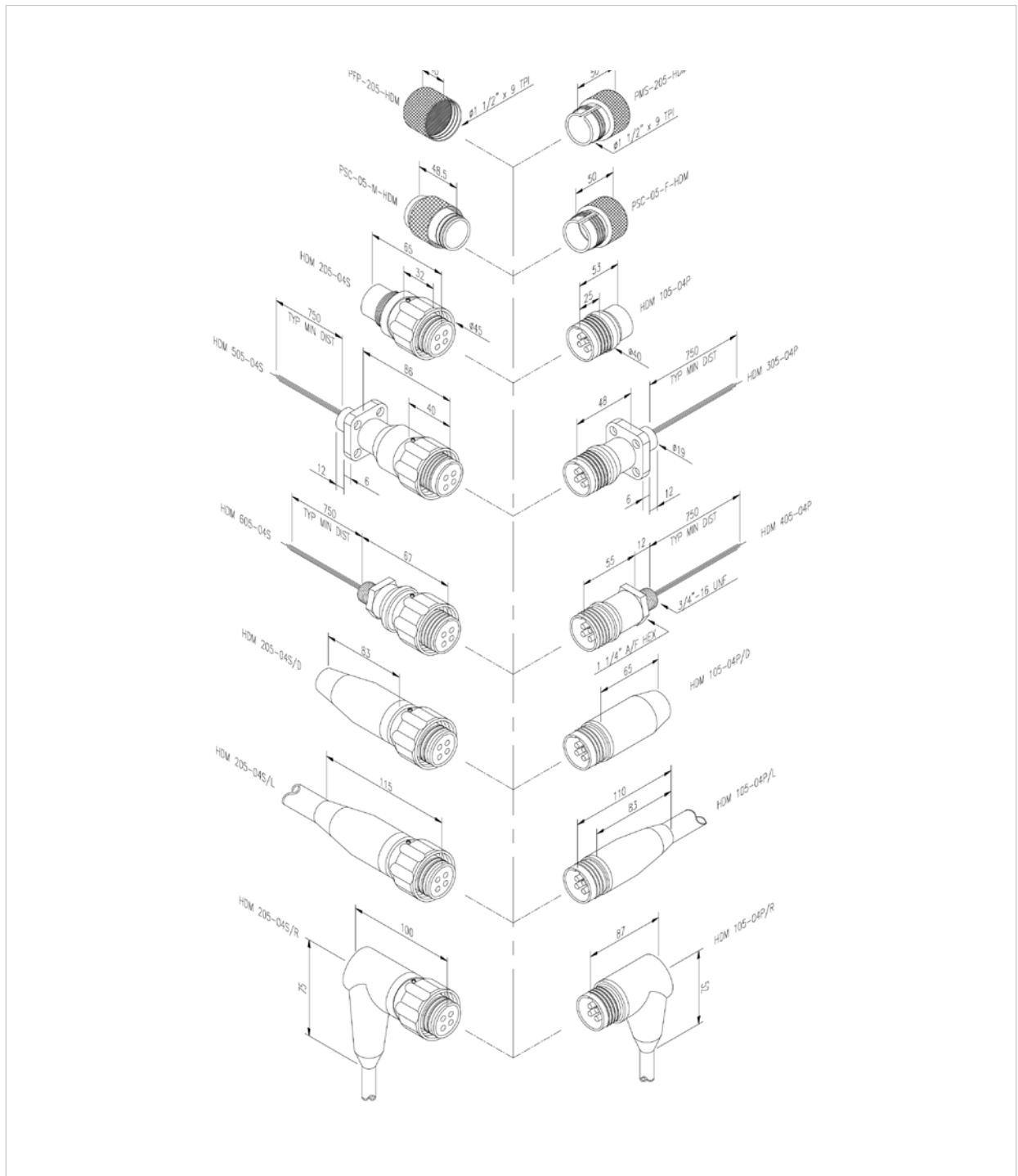
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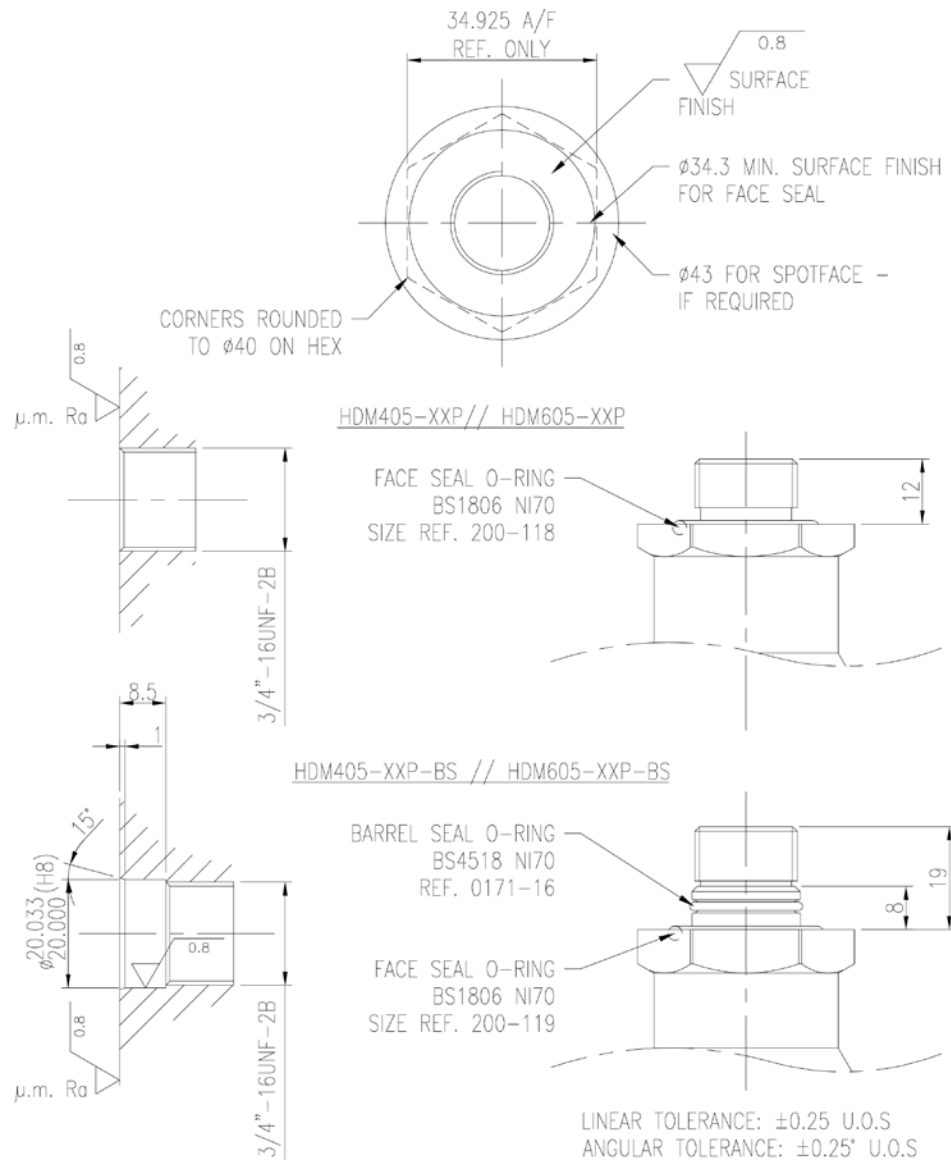
## Surface Mateable Electrical Connectors

### High Density Metal Keyed HDM (Hydro Bond Deck Mate) : **Shell Size 5 / Connector Details**



## Surface Mateable Electrical Connectors

### High Density Metal Keyed HDM (Hydro Bond Deck Mate) : **Shell Size 5 / Mounting Details**



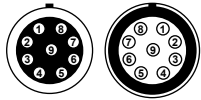
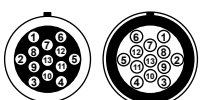
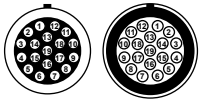
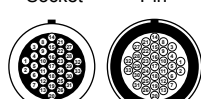
#### MOUNTING CONFIGURATIONS

For the full range of mounting configurations for this connector, [please click here](#).



# Surface Mateable Electrical Connectors

## High Density Metal Keyed HDM (Hydro Bond Deck Mate) : **Shell Size 5 / Specifications**

Electrical and Environmental	Standard Material Specification	Face Views
Pin Current Rating: <b>8 Amps</b> Pin Voltage Rating: <b>1,500 V rms</b> Contact to Contact IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Contact to Body IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Mated Depth Rating: <b>3,450 MSW</b> Temperature Rating: <b>-20 ° C to +60 ° C</b> Conductor Tail Size: <b>16 AWG</b> Solder Bucket Size: <b>1.6 mm dia</b>	Body: <b>316 Stainless Steel</b> Fix Ring: <b>Aluminium Silicon Bronze</b> Back Shell: <b>N/A</b> Contact Pins: <b>CZ121/Au</b> Contact Sockets: <b>CZ121/Au</b> Insert Material: <b>Peek</b> Conductor Tails: <b>Spec 44 X 1.0 m</b> O – Rings: <b>NI70</b>	Socket      Pin  <b>Ref: HDM 05-09</b>
Pin Current Rating: <b>6 Amps</b> Pin Voltage Rating: <b>1,000 V rms</b> Contact to Contact IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Contact to Body IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Mated Depth Rating: <b>3,450 MSW</b> Temperature Rating: <b>-20 ° C to +60 ° C</b> Conductor Tail Size: <b>18 AWG</b> Solder Bucket Size: <b>1.6 mm dia</b>	Body: <b>316 Stainless Steel</b> Fix Ring: <b>Aluminium Silicon Bronze</b> Back Shell: <b>N/A</b> Contact Pins: <b>CZ121/Au</b> Contact Sockets: <b>CZ121/Au</b> Insert Material: <b>Peek</b> Conductor Tails: <b>Spec 44 X 1.0 m</b> O – Rings: <b>NI70</b>	Socket      Pin  <b>Ref: HDM 05-13</b>
Pin Current Rating: <b>3 Amps</b> Pin Voltage Rating: <b>1,000 V rms</b> Contact to Contact IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Contact to Body IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Mated Depth Rating: <b>3,450 MSW</b> Temperature Rating: <b>-20 ° C to +60 ° C</b> Conductor Tail Size: <b>18 AWG</b> Solder Bucket Size: <b>1.2 mm dia</b>	Body: <b>316 Stainless Steel</b> Fix Ring: <b>Aluminium Silicon Bronze</b> Back Shell: <b>N/A</b> Contact Pins: <b>CZ121/Au</b> Contact Sockets: <b>CZ121/Au</b> Insert Material: <b>Peek</b> Conductor Tails: <b>Spec 44 X 1.0 m</b> O – Rings: <b>NI70</b>	Socket      Pin  <b>Ref: HDM 05-19</b>
Pin Current Rating: <b>2 Amps</b> Pin Voltage Rating: <b>1,000 V rms</b> Contact to Contact IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Contact to Body IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Mated Depth Rating: <b>3,450 MSW</b> Temperature Rating: <b>-20 ° C to +60 ° C</b> Conductor Tail Size: <b>18 AWG</b> Solder Bucket Size: <b>1.2 mm dia</b>	Body: <b>316 Stainless Steel</b> Fix Ring: <b>Aluminium Silicon Bronze</b> Back Shell: <b>N/A</b> Contact Pins: <b>CZ121/Au</b> Contact Sockets: <b>CZ121/Au</b> Insert Material: <b>Peek</b> Conductor Tails: <b>Spec 44 X 1.0 m</b> O – Rings: <b>NI70</b>	Socket      Pin  <b>Ref: HDM 05-33</b>

### Custom Product Design

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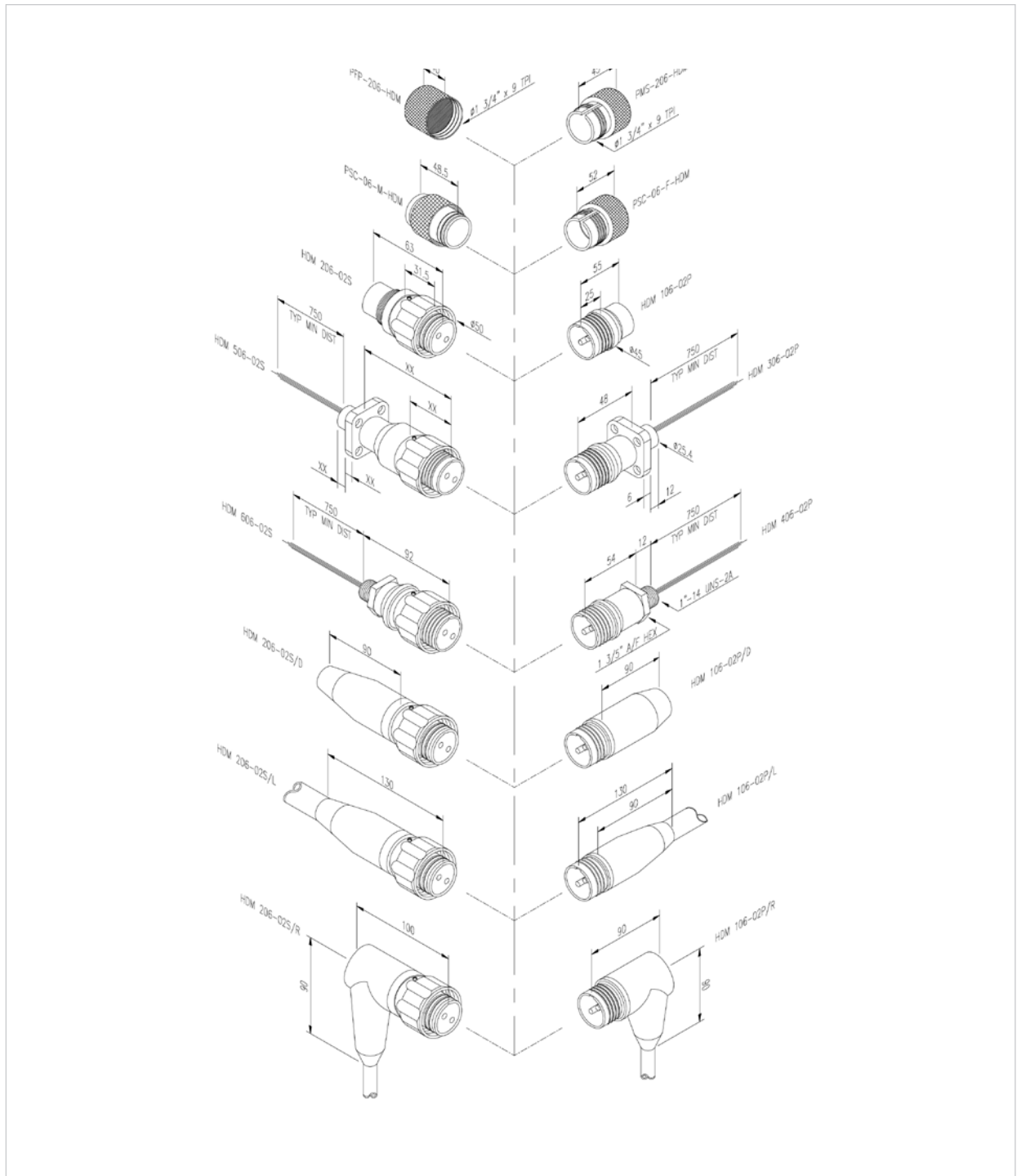
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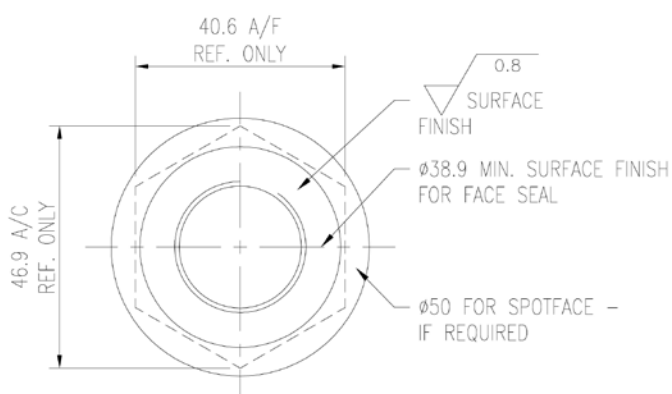
## Surface Mateable Electrical Connectors

### High Density Metal Keyed HDM (Hydro Bond Deck Mate) : **Shell Size 6 / Connector Details**

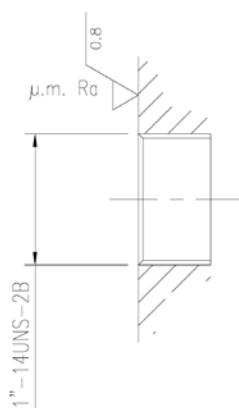


## Surface Mateable Electrical Connectors

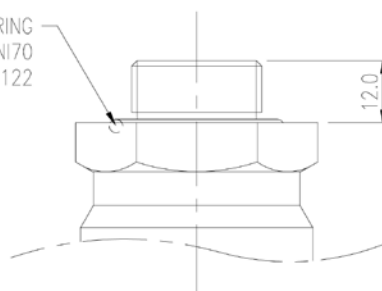
### High Density Metal Keyed HDM (Hydro Bond Deck Mate) : **Shell Size 6 / Mounting Details**



HDM 406-XXP // HDM 606-XXS



FACE SEAL O-RING  
BS1806 NI70  
SIZE REF. 200-122



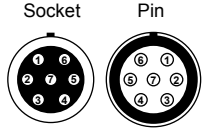
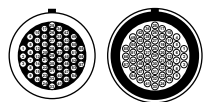
LINEAR TOLERANCE:  $\pm 0.25$  U.O.S  
ANGULAR TOLERANCE:  $\pm 0.25^\circ$  U.O.S

#### MOUNTING CONFIGURATIONS

For the full range of mounting configurations for this connector, [please click here.](#)

# Surface Mateable Electrical Connectors

## High Density Metal Keyed HDM (Hydro Bond Deck Mate) : **Shell Size 6 / Specifications**

Electrical and Environmental	Standard Material Specification	Face Views
Pin Current Rating: <b>22 Amps</b> Pin Voltage Rating: <b>1,500 V rms</b> Contact to Contact IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Contact to Body IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Mated Depth Rating: <b>3,450 MSW</b> Temperature Rating: <b>-20 ° C to +60 ° C</b> Conductor Tail Size: <b>12 AWG</b> Solder Bucket Size: <b>2.5 mm dia</b>	Body: <b>316 Stainless Steel</b> Fix Ring: <b>Aluminium Silicon Bronze</b> Back Shell: <b>N/A</b> Contact Pins: <b>CZ121/Au</b> Contact Sockets: <b>CZ121/Au</b> Insert Material: <b>Peek</b> Conductor Tails: <b>Spec 44 X 1.0 m</b> O – Rings: <b>NI70</b>	 <b>Ref: HDM 06-07</b>
Pin Current Rating: <b>3 Amps</b> Pin Voltage Rating: <b>1,000 V rms</b> Contact to Contact IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Contact to Body IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Mated Depth Rating: <b>3,450 MSW</b> Temperature Rating: <b>-20 ° C to +60 ° C</b> Conductor Tail Size: <b>18 AWG</b> Solder Bucket Size: <b>1.2 mm dia</b>	Body: <b>316 Stainless Steel</b> Fix Ring: <b>Aluminium Silicon Bronze</b> Back Shell: <b>N/A</b> Contact Pins: <b>CZ121/Au</b> Contact Sockets: <b>CZ121/Au</b> Insert Material: <b>Peek</b> Conductor Tails: <b>Spec 44 X 1.0 m</b> O – Rings: <b>NI70</b>	 <b>Ref: HDM 06-37</b>
Pin Current Rating: <b>2 Amps</b> Pin Voltage Rating: <b>1,000 V rms</b> Contact to Contact IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Contact to Body IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Mated Depth Rating: <b>3,450 MSW</b> Temperature Rating: <b>-20 ° C to +60 ° C</b> Conductor Tail Size: <b>18 AWG</b> Solder Bucket Size: <b>1.2 mm dia</b>	Body: <b>316 Stainless Steel</b> Fix Ring: <b>Aluminium Silicon Bronze</b> Back Shell: <b>N/A</b> Contact Pins: <b>CZ121/Au</b> Contact Sockets: <b>CZ121/Au</b> Insert Material: <b>Peek</b> Conductor Tails: <b>Spec 44 X 1.0 m</b> O – Rings: <b>NI70</b>	 <b>Ref: HDM 06-57</b>

### Custom Product Design

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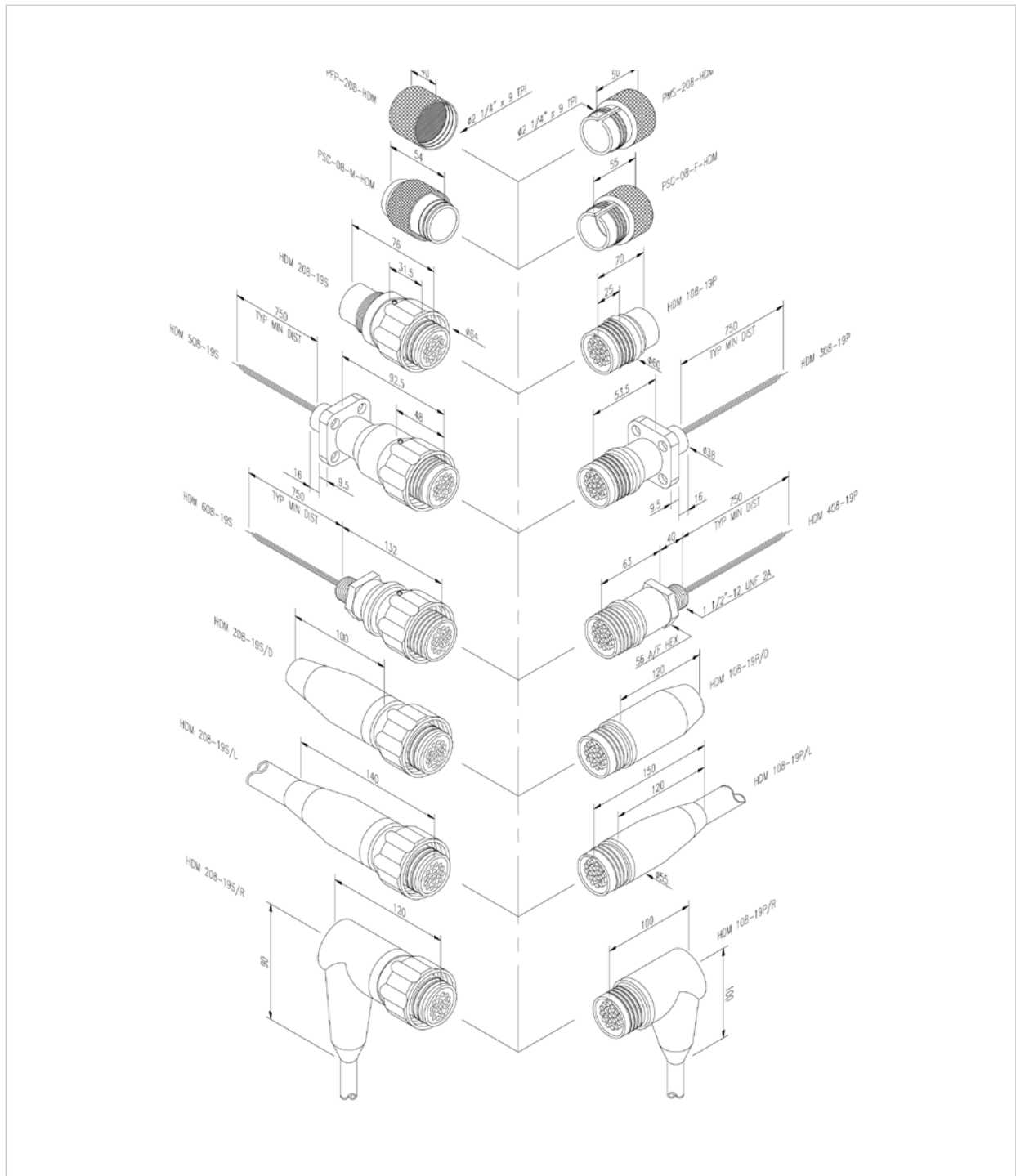
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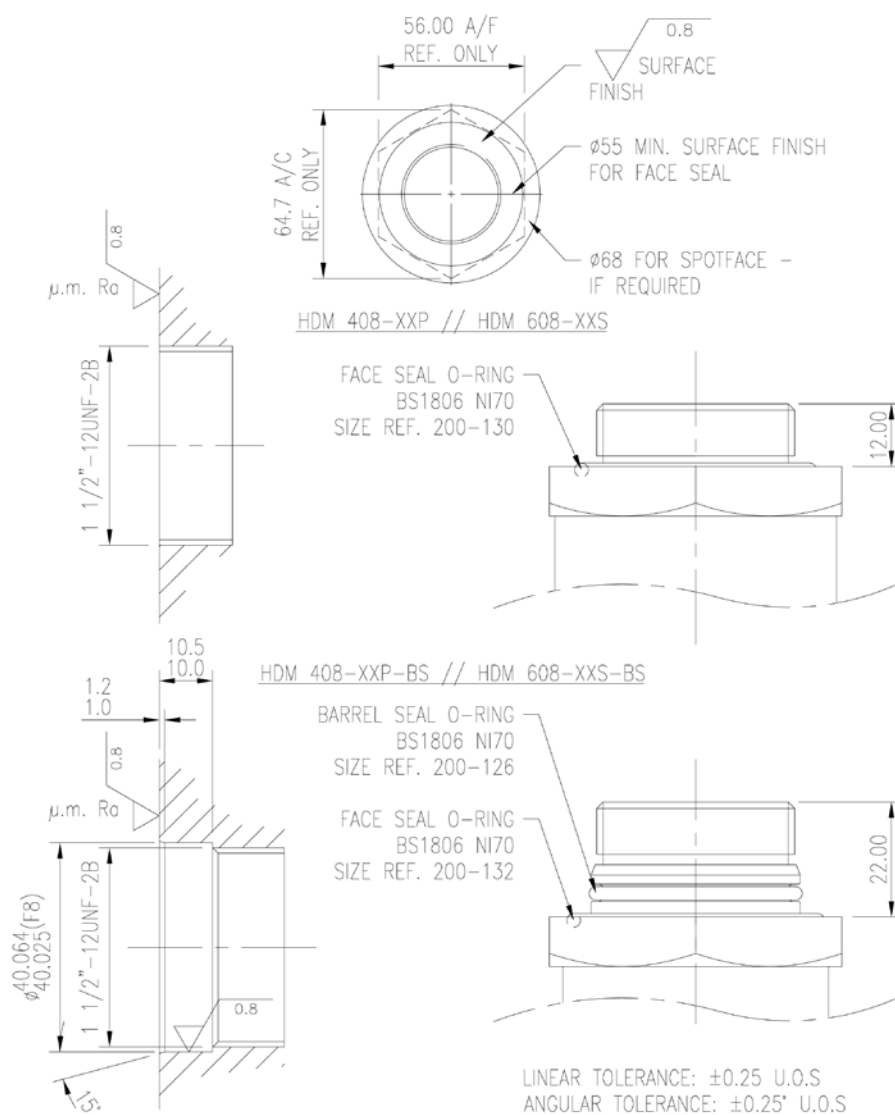
## Surface Mateable Electrical Connectors

### High Density Metal Keyed HDM (Hydro Bond Deck Mate) : **Shell Size 8 / Connector Details**



## Surface Mateable Electrical Connectors

### High Density Metal Keyed HDM (Hydro Bond Deck Mate) : **Shell Size 8 / Mounting Details**



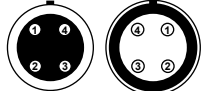
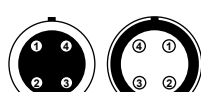
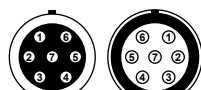

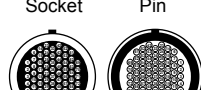
#### MOUNTING CONFIGURATIONS

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# Surface Mateable Electrical Connectors

## High Density Metal Keyed HDM (Hydro Bond Deck Mate) : **Shell Size 8 / Specifications**

Electrical and Environmental	Standard Material Specification	Face Views
Pin Current Rating: <b>60 Amps</b> Pin Voltage Rating: <b>1,500 V rms</b> Contact to Contact IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Contact to Body IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Mated Depth Rating: <b>3,450 MSW</b> Temperature Rating: <b>-20 ° C to +60 ° C</b> Conductor Tail Size: <b>Details on Application</b> Solder Bucket Size: <b>Details on Application</b>	Body: <b>316 Stainless Steel</b> Fix Ring: <b>Aluminium Silicon Bronze</b> Back Shell: <b>N/A</b> Contact Pins: <b>CZ121/Au</b> Contact Sockets: <b>CZ121/Au</b> Insert Material: <b>Peek</b> Conductor Tails: <b>Polyrad x 1.0 m</b> O – Rings: <b>NI70</b>	Socket      Pin  <b>Ref: HDM 08-04</b>
Pin Current Rating: <b>20 Amps</b> Pin Voltage Rating: <b>3,300 V rms</b> Contact to Contact IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Contact to Body IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Mated Depth Rating: <b>3,450 MSW</b> Temperature Rating: <b>-20 ° C to +60 ° C</b> Conductor Tail Size: <b>13 AWG</b> Solder Bucket Size: <b>2.5 mm dia</b>	Body: <b>316 Stainless Steel</b> Fix Ring: <b>Aluminium Silicon Bronze</b> Back Shell: <b>N/A</b> Contact Pins: <b>CZ121/Au</b> Contact Sockets: <b>CZ121/Au</b> Insert Material: <b>Peek</b> Conductor Tails: <b>Reynolds 178-8545 x 1.0 m</b> O – Rings: <b>NI70</b>	Socket      Pin  <b>Ref: HDM 08-04-HV</b>
Pin Current Rating: <b>Details on Application</b> Pin Voltage Rating: <b>Details on Application</b> Contact to Contact IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Contact to Body IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Mated Depth Rating: <b>3,450 MSW</b> Temperature Rating: <b>-20 ° C to +60 ° C</b> Conductor Tail Size: <b>13 AWG</b> Solder Bucket Size: <b>2.5 mm dia</b>	Body: <b>316 Stainless Steel</b> Fix Ring: <b>Aluminium Silicon Bronze</b> Back Shell: <b>N/A</b> Contact Pins: <b>CZ121/Au</b> Contact Sockets: <b>CZ121/Au</b> Insert Material: <b>Peek</b> Conductor Tails: <b>Reynolds 178-8545 x 1.0 m</b> O – Rings: <b>NI70</b>	Socket      Pin  <b>Ref: HDM 08-07</b>
Pin Current Rating: <b>5 Amps</b> Pin Voltage Rating: <b>1,500 V rms</b> Contact to Contact IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Contact to Body IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Mated Depth Rating: <b>3,450 MSW</b> Temperature Rating: <b>-20 ° C to +60 ° C</b> Conductor Tail Size: <b>16 AWG</b> Solder Bucket Size: <b>1.6 mm dia</b>	Body: <b>316 Stainless Steel</b> Fix Ring: <b>Aluminium Silicon Bronze</b> Back Shell: <b>N/A</b> Contact Pins: <b>CZ121/Au</b> Contact Sockets: <b>CZ121/Au</b> Insert Material: <b>Peek</b> Conductor Tails: <b>Spec 44 X 1.0 m</b> O – Rings: <b>NI70</b>	Socket      Pin  <b>Ref: HDM 08-19</b>
Pin Current Rating: <b>2 Amps</b> Pin Voltage Rating: <b>1,000 V rms</b> Contact to Contact IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Contact to Body IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Mated Depth Rating: <b>3,450 MSW</b> Temperature Rating: <b>-20 ° C to +60 ° C</b> Conductor Tail Size: <b>18 AWG</b> Solder Bucket Size: <b>1.2 mm dia</b>	Body: <b>316 Stainless Steel</b> Fix Ring: <b>Aluminium Silicon Bronze</b> Back Shell: <b>N/A</b> Contact Pins: <b>CZ121/Au</b> Contact Sockets: <b>CZ121/Au</b> Insert Material: <b>Peek</b> Conductor Tails: <b>Spec 44 X 1.0 m</b> O – Rings: <b>NI70</b>	Socket      Pin  <b>Ref: HDM 08-73</b>

### Custom Product Design

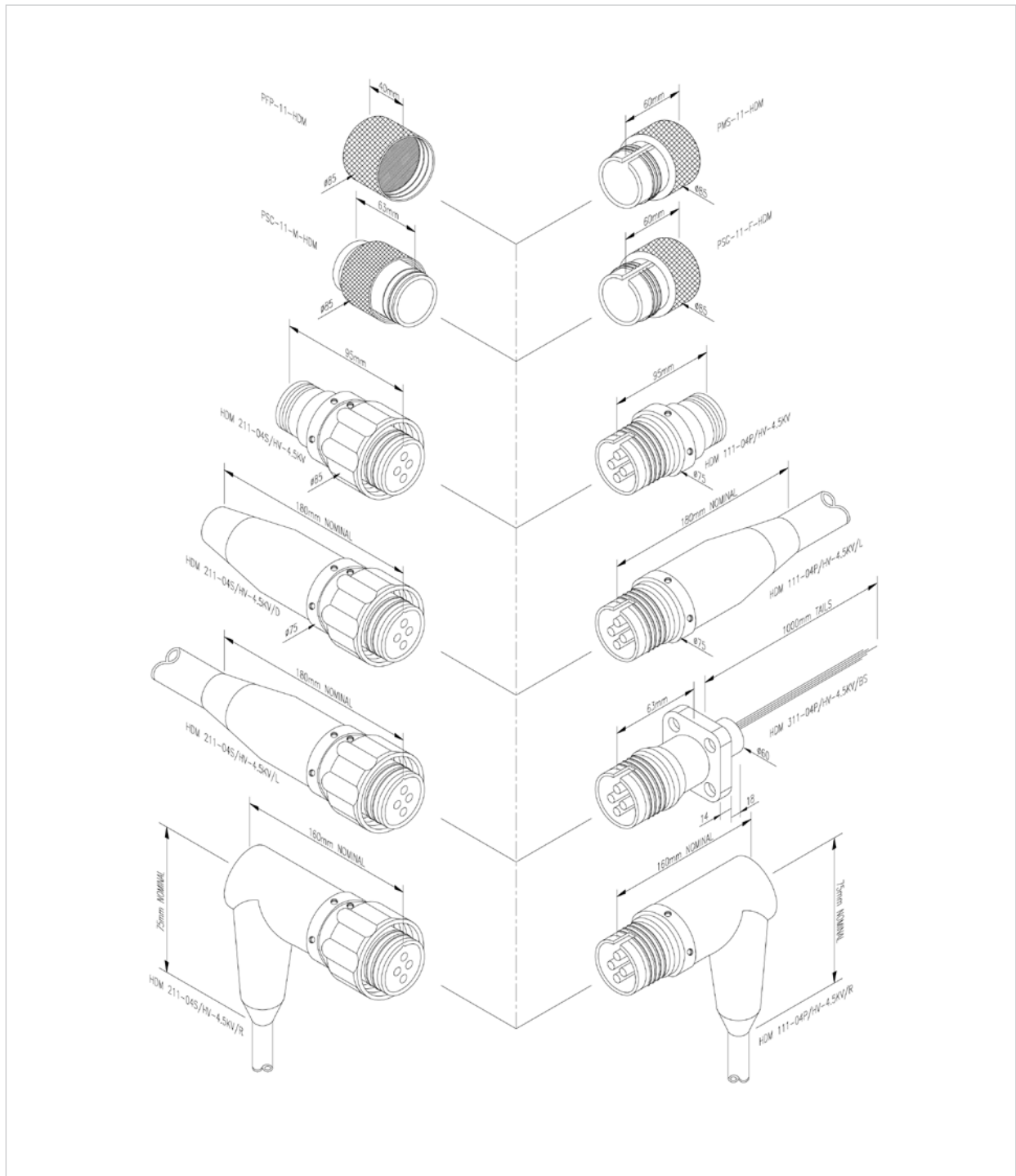
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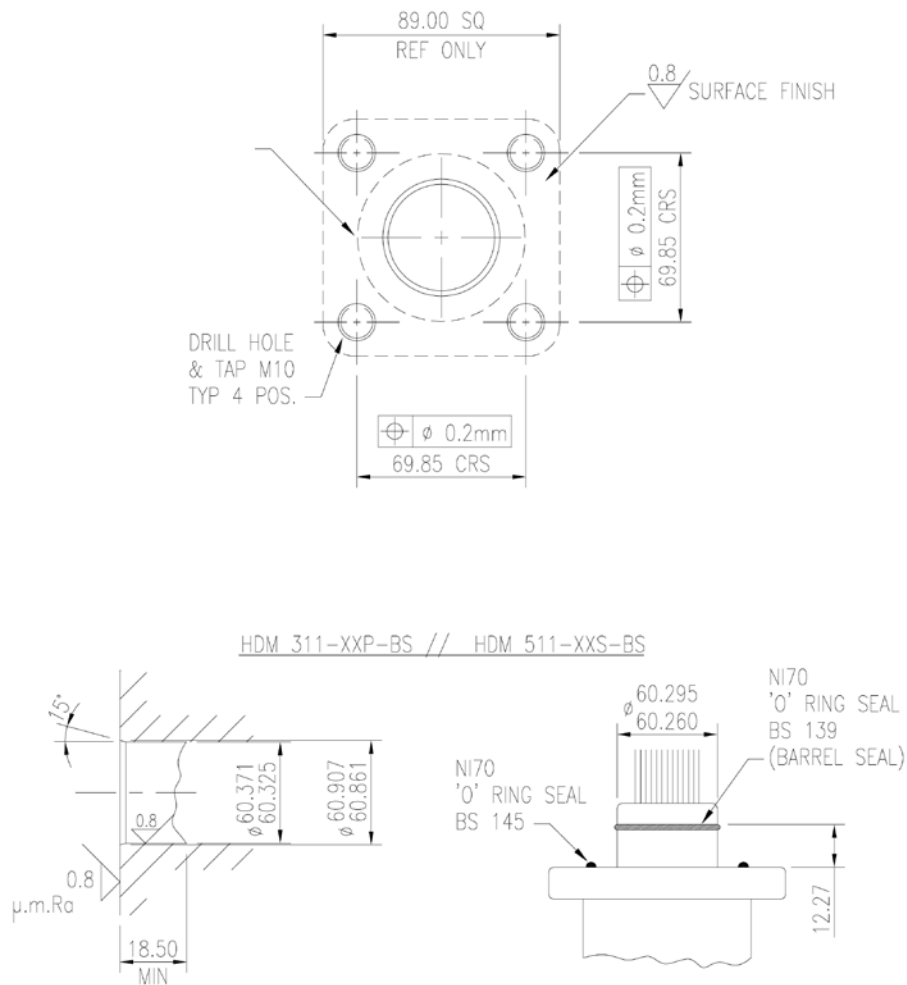
## Surface Mateable Electrical Connectors

### High Density Metal Keyed HDM (Hydro Bond Deck Mate) : **Shell Size 11 / Connector Details**



## Surface Mateable Electrical Connectors

### High Density Metal Keyed HDM (Hydro Bond Deck Mate) : **Shell Size 11 / Mounting Details**

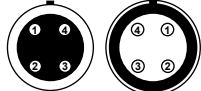
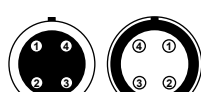
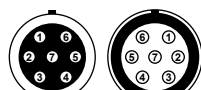

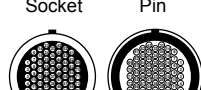


#### MOUNTING CONFIGURATIONS

For the full range of mounting configurations for this connector, [please click here](#).

# Surface Mateable Electrical Connectors

## High Density Metal Keyed HDM (Hydro Bond Deck Mate) : **Shell Size 11 / Specifications**

Electrical and Environmental	Standard Material Specification	Face Views
Pin Current Rating: <b>60 Amps</b> Pin Voltage Rating: <b>1,500 V rms</b> Contact to Contact IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Contact to Body IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Mated Depth Rating: <b>3,450 MSW</b> Temperature Rating: <b>-20 ° C to +60 ° C</b> Conductor Tail Size: <b>Details on Application</b> Solder Bucket Size: <b>Details on Application</b>	Body: <b>316 Stainless Steel</b> Fix Ring: <b>Aluminium Silicon Bronze</b> Back Shell: <b>N/A</b> Contact Pins: <b>CZ121/Au</b> Contact Sockets: <b>CZ121/Au</b> Insert Material: <b>Peek</b> Conductor Tails: <b>Polyrad x 1.0 m</b> O – Rings: <b>NI70</b>	Socket      Pin  <b>Ref: HDM 08-04</b>
Pin Current Rating: <b>20 Amps</b> Pin Voltage Rating: <b>3,300 V rms</b> Contact to Contact IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Contact to Body IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Mated Depth Rating: <b>3,450 MSW</b> Temperature Rating: <b>-20 ° C to +60 ° C</b> Conductor Tail Size: <b>13 AWG</b> Solder Bucket Size: <b>2.5 mm dia</b>	Body: <b>316 Stainless Steel</b> Fix Ring: <b>Aluminium Silicon Bronze</b> Back Shell: <b>N/A</b> Contact Pins: <b>CZ121/Au</b> Contact Sockets: <b>CZ121/Au</b> Insert Material: <b>Peek</b> Conductor Tails: <b>Reynolds 178-8545 x 1.0 m</b> O – Rings: <b>NI70</b>	Socket      Pin  <b>Ref: HDM 08-04-HV</b>
Pin Current Rating: <b>Details on Application</b> Pin Voltage Rating: <b>Details on Application</b> Contact to Contact IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Contact to Body IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Mated Depth Rating: <b>3,450 MSW</b> Temperature Rating: <b>-20 ° C to +60 ° C</b> Conductor Tail Size: <b>13 AWG</b> Solder Bucket Size: <b>2.5 mm dia</b>	Body: <b>316 Stainless Steel</b> Fix Ring: <b>Aluminium Silicon Bronze</b> Back Shell: <b>N/A</b> Contact Pins: <b>CZ121/Au</b> Contact Sockets: <b>CZ121/Au</b> Insert Material: <b>Peek</b> Conductor Tails: <b>Reynolds 178-8545 x 1.0 m</b> O – Rings: <b>NI70</b>	Socket      Pin  <b>Ref: HDM 08-07</b>
Pin Current Rating: <b>5 Amps</b> Pin Voltage Rating: <b>1,500 V rms</b> Contact to Contact IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Contact to Body IR: <b>&gt;1,000 MOhms @ 1,000 V dc</b> Mated Depth Rating: <b>3,450 MSW</b> Temperature Rating: <b>-20 ° C to +60 ° C</b> Conductor Tail Size: <b>16 AWG</b> Solder Bucket Size: <b>1.6 mm dia</b>	Body: <b>316 Stainless Steel</b> Fix Ring: <b>Aluminium Silicon Bronze</b> Back Shell: <b>N/A</b> Contact Pins: <b>CZ121/Au</b> Contact Sockets: <b>CZ121/Au</b> Insert Material: <b>Peek</b> Conductor Tails: <b>Spec 44 X 1.0 m</b> O – Rings: <b>NI70</b>	Socket      Pin  <b>Ref: HDM 08-19</b>
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