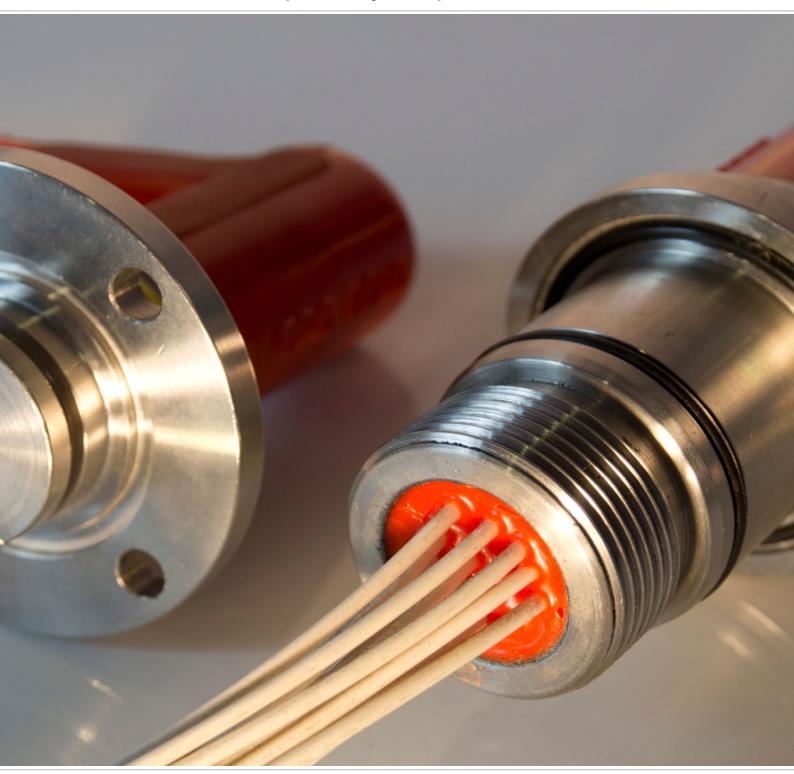


## **Hydro Bond Engineering Ltd**

# Fibre Optic Connectors and Penetrators: Surface Mateable Optical & Hybrid Optical / Electrical Connectors















## HDM (Hydrobond Deck Mate) Surface Mateable all Optical Connectors & Hybrid Optical / Electrical Connectors

Hydro Bond Engineering Ltd offer Fibre Optical Connectors and Penetrators from its extensive, high integrity range of connectors and penetrators.

Our in house engineered and developed optical 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 optical Engineers and Technicians are fully trained and certified on our equipment by City & Guilds (optical fibre installation and testing singlemode fibre course).



HDM: (Connector)

### **Features**

- Optical and Electrical / Optical Hybrid connectors are designed and manufactured using our acclaimed HDM connector range
- Multimode 62.5/125 and 50/125 versions for use at 850 nm to 1300 nm available with typically ≤ 0.5 dB insertion loss per mated optical path
- Singlemode 8/125 versions for use at 1310 nm to 1550 nm are available with typically ≤ 0.5 dB insertion loss per mated optical path and ≤ 30 dB return loss. Use at wavelengths between 1285 nm and 1565 nm can also be accommodated on request



HDM: (Connector)

- Singlemode connectors are compatible with standard single mode fibre, Fatigue resistant fibre and non zero dispersion shifted fibre
- Bulkhead and other fibre optical tails used are tested to ITU-T and IEC-793-1 and our single mode optical tails are manufactured as per G.652
- Panel mount and bulkhead mount connectors come with 1 metre optical tails terminated with ST connectors as standard and FC/PC and FC/APC on request.
- Connectors are available in 5 different shell sizes with standard and reverse gender options available as standard
- Optical and electrical path combinations are available from 1 to 38 paths
- Termination options are standard optical, optical electrical, strain terminated to Kevlar or wire armour, oil filled and field installable
- · All connectors use our in-house purpose designed self aligning optical ferrule and coupling technology















## HDM (Hydrobond Deck Mate) Surface Mateable all Optical Connectors & Hybrid Optical / Electrical Connectors

### **Benefits**

- High Integrity field proven design
- Connectors and penetrator samples have been shock tested for military and high vibration applications
- Full pressure blocked penetrator design assures leak tight system
- Non expanded beam inserts ensure optimum system design with low losses allows you to use your optical budget to the maximum
- Wide range of insert options allows for ease of system design
- · Wide variety of metal component materials allows for non-magnetic and corrosion resistant designs
- Ease of connection





HDM: (Connector)

HDM: (Connector)

### **Specifications**

The following pages feature (Fibre Optic Connectors and Penetrators) Optical, Electrical and Optical Hybrid Connectors and Penetrators that have been designed, manufactured and field tested. The following charts feature the socket / pin (face view) configurations, together with electrical, environmental and standard material specifications.





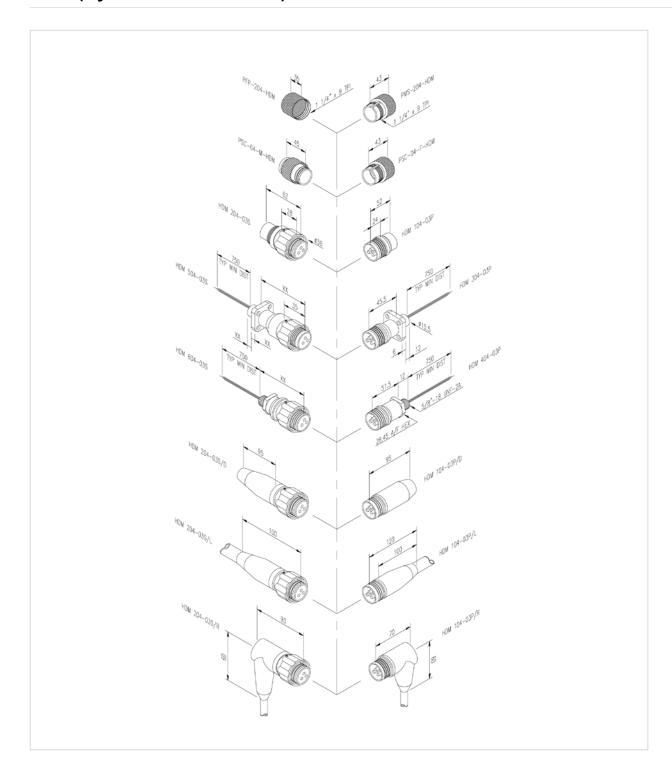








# Surface Mateable all Optical & Hybrid Optical / Electrical Connectors HDM (Hydrobond Deck Mate): Shell Size 4 / Connector Details







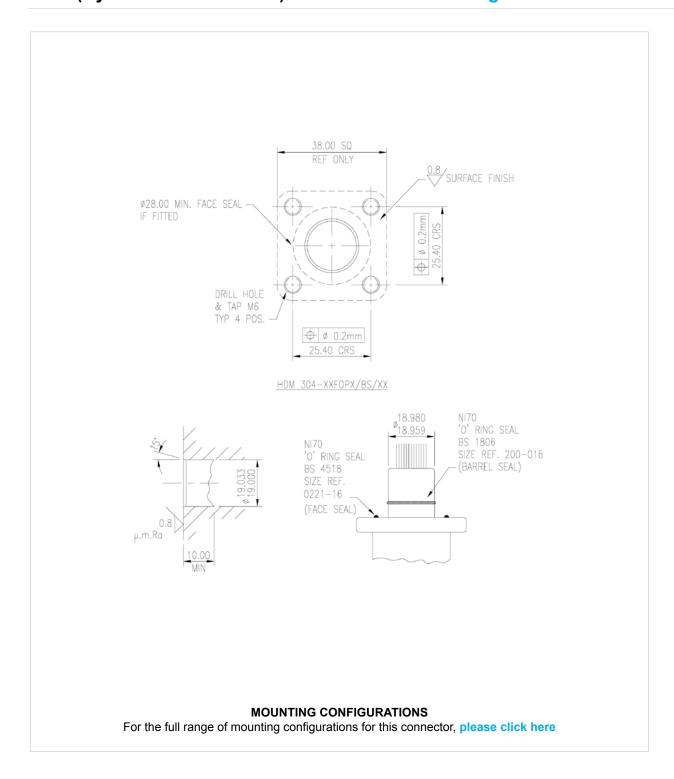








# Surface Mateable all Optical & Hybrid Optical / Electrical Connectors HDM (Hydrobond Deck Mate): Shell Size 4 / Mounting Details















# **HDM (Hydrobond Deck Mate) Surface Mateable all Optical Connectors & Hybrid Optical / Electrical Connectors: Specifications**

Electrical and Environmental	Standard Material Specification	Face Views
Optical paths: 1xFibre Optic (Multi/Single Mode) Typical Insertion Loss: ≤ 0.5 dB Typical (SM) Back Reflection: <-30 dB return loss Pin Current Rating: N/A Contact to Contact IR: N/A Contact to Body IR: N/A Mated Depth Rating: 3,450 MSW Temperature Rating: -20 ° C to +60 ° C Conductor Tail Size: N/A Solder Bucket Size: N/A	Body: 316 Stainless Steel Fix Ring: Aluminium Silicon Bronze Back Shell: N/A Optical Ferrule: Ceramic Optical Alignment Sleeve: Ceramic Contact Pins: N/A Contact Sockets: N/A Insert Material: Peek Conductor Tails: N/A Optical Tails: Simplex ruggardised x 1.0m Terminated: ST Connectors NI70	Socket Pin  Ref: HDM 04-01FOP-/0P
Optical paths: 1xFibre Optic (Multi/Single Mode) Typical (SM) Back Reflection: <-30 dB return loss Pin Current Rating: 7 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: Solder Bucket Size: 1.2 mm dia	Body: 316 Stainless Steel Fix Ring: Aluminium Silicon Bronze N/A Optical Ferrule: Ceramic Optical Alignment Sleeve: Ceramic Contact Pins: CZ121/Au Contact Sockets: CZ121/Au Insert Material: Peek Conductor Tails: Optical Tails: Spec 44 x 1.0m Terminated: ST Connectors O - Rings: NI70	Socket Pin
Optical paths: 2xFibre Optic (Multi/Single Mode) Typical Insertion Loss: ≤ 0.5 dB Typical (SM) Back Reflection: <-30 dB return loss Pin Current Rating: N/A Pin Voltage Rating: N/A Contact to Contact IR: N/A Contact to Body IR: N/A Mated Depth Rating: 3,450 MSW Temperature Rating: -20 ° C to +60 ° C Conductor Tail Size: N/A Solder Bucket Size: N/A	Body: 316 Stainless Steel Fix Ring: Aluminium Silicon Bronze Back Shell: N/A Optical Ferrule: Ceramic Optical Alignment Sleeve: Ceramic Contact Pins: N/A Contact Sockets: N/A Insert Material: Peek Conductor Tails: N/A Optical Tails: Simplex ruggardised x 1.0m Terminated: ST Connectors O – Rings: NI70	Socket Pin  Socket Pin  Ref: HDM 04-01FOP-/0P

## **Custom Product Design**

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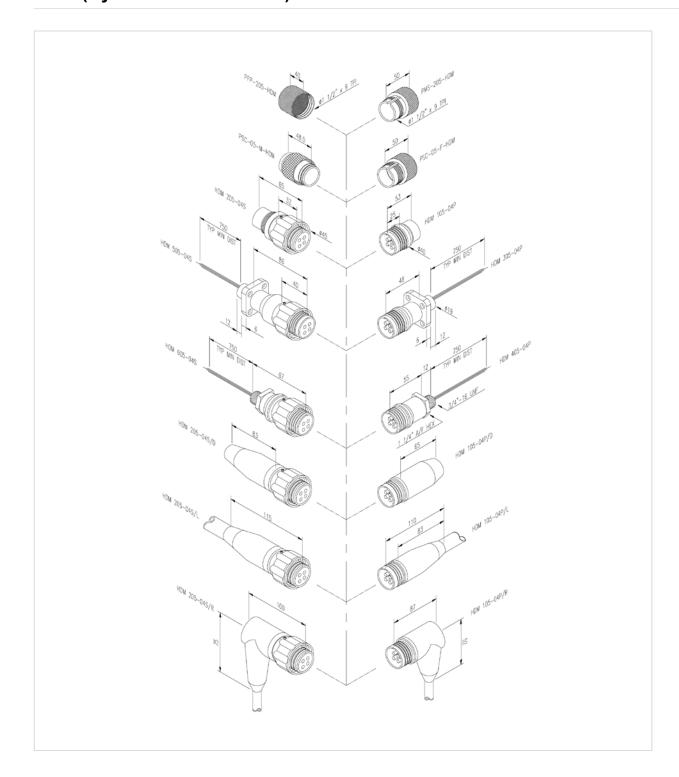








Surface Mateable all Optical & Hybrid Optical / Electrical Connectors HDM (Hydrobond Deck Mate): Shell Size 5 / Connector Details







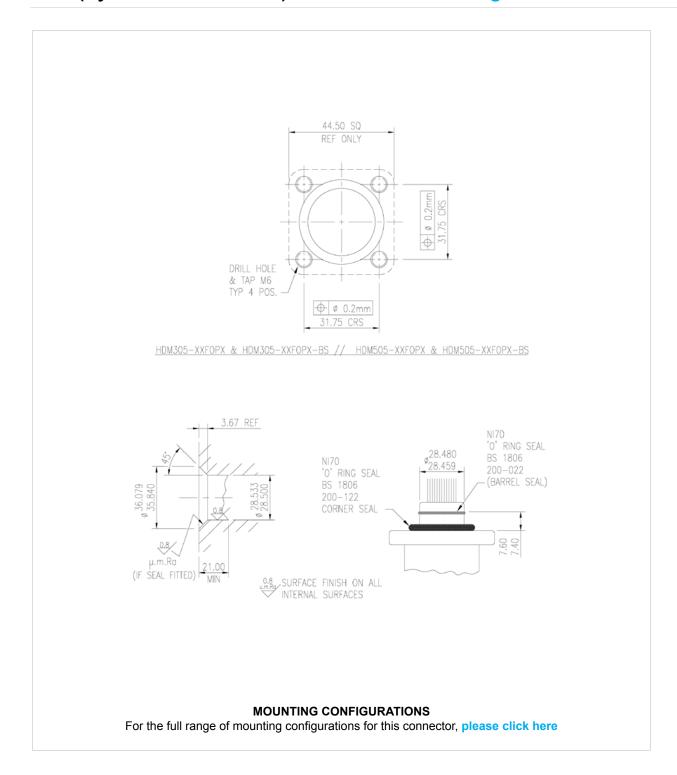








## Surface Mateable all Optical & Hybrid Optical / Electrical Connectors HDM (Hydrobond Deck Mate): Shell Size 5 / Mounting Details















## HDM (Hydrobond Deck Mate) Surface Mateable all Optical Connectors & Hybrid Optical / Electrical Connectors: Specifications

#### **Face Views Electrical and Environmental** Standard Material Specification Optical paths: 1xFibre Optic (Multi/Single Mode) Typical Insertion Loss: ≤ 0.5 dB Body: Fix Ring: 316 Stainless Stee Socket Pin Aluminium Silicon Bronze Typical (SM) Back Reflection: Pin Current Rating: 20 Am Back Shell: Optical Ferrule: <-30 dB return loss 20 Amps 1,000 V rms >1,000 MOhms @ 1,000 V dc >1,000 MOhms @ 1,000 V dc 3,450 MSW Ceramic Pin Voltage Rating: Contact to Contact IR: Optical Alignment Sleeve: Ceramic ① ② CZ121/Au CZ121/Au Contact Pins: Contact Sockets: Insert Material: Contact to Body IR: Mated Depth Rating: Peek Spec 44 x 1.0m Simplex ruggardised x 1.0m Terminated: ST Connectors NI70 -20 ° C to +60 ° C 12 AWG Conductor Tails: Optical Tails: Temperature Rating: Ref: HDM 05-01FOP-/02P Conductor Tail Size: Solder Bucket Size: 2.5 mm dia O - Rinas: Body: Fix Ring: Back Shell: Optical Ferrule: 2xFibre Optic (Multi/Single Mode) ≤ 0.5 dB 316 Stainless Steel Aluminium Silicon Bronze Optical paths: Pin Typical Insertion Loss: ≤ 0.5 c Typical (SM) Back Reflection: Pin Current Rating: 20 Am Socket <-30 dB return loss N/A Ceramic Optical Ferrue: Optical Alignment Sleeve: Contact Pins: CZ121/Au Contact Sockets: Insert Material: Peek CZ121/Au CZ121/Au A 1,000 V rms >1,000 MOhms @ 1,000 V dc >1,000 MOhms @ 1,000 V dc 3,450 MSW -20 °C to +60 °C Pin Voltage Rating: Contact to Contact IR: (2) 1 Contact to Body IR: Mated Depth Rating: reek Spec 44 x 1.0m Simplex ruggardised x 1.0m Terminated: ST Connectors NI70 Temperature Rating: Conductor Tail Size: Conductor Tails: Optical Tails: 12 AWG Ref: HDM 05-02FOP-/02P Solder Bucket Size: 2.5 mm dia O - Rings: 316 Stainless Steel Aluminium Silicon Bronze Optical paths: 2xFibre Typical Insertion Loss: ≤ 0.5 dl Typical (SM) Back Reflection: 2xFibre Optic (Multi/Single Mode) ≤ 0.5 dB Body: Fix Ring: Pin Socket <-30 dB return loss Back Shell: N/A Optical Ferrule: Ce Optical Alignment Sleeve: Contact Pins: CZ Ceramic in Current Rating: 1 Pin Current Rating: 2 Pin Voltage Rating: 1 Contact to Contact IR: 2 Contact to Body IR: 3 Mated Depth Rating: 3 1.000 V rms Ceramic ve: CZ121/Au CZ121/Au 1,000 V rms >1,000 MOhms @ 1,000 V dc >1,000 MOhms @ 1,000 V dc 3,450 MSW -20 ° C to +60 ° C 12 AWG B 2 A Contact Sockets: Peek Spec 44 x 1.0m Insert Material: Temperature Rating: Conductor Tails: Simplex ruggardised x 1.0m Terminated: ST Connectors Conductor Tail Size: Solder Bucket Size: Optical Tails: Ref: HDM 05-02FOP-/03P 2.5 mm dia O – Rings: 3xFibre Optic (Multi/Single Mode) 316 Stainless Steel Optical paths: Body: Optical paths: 3xFlore C Typical Insertion Loss: < 0.5 dB Typical (SM) Back Reflection: Pin Current Rating: 20 Amps Pin Voltage Rating: 1,000 V r Pin Fix Ring: Aluminium Silicon Bronze Socket Back Shell: N/A Optical Ferrule: Cer Optical Alignment Sleeve: N/A <-30 dB return loss 20 Amps 1,000 V rms Ceramic 2 B 1 Contact to Contact IR: Contact to Body IR: >1,000 MOhms @ 1,000 V dc >1,000 MOhms @ 1,000 V dc CZ121/Au CZ121/Au Contact Pins: Contact Sockets: 3,450 MSW -20 ° C to +60 ° C 12 AWG Peek Spec 44 x 1.0m Simplex ruggardised x 1.0m Terminated: ST Connectors Insert Material: Mated Depth Rating: Temperature Rating: Conductor Tails: Conductor Tail Size: Solder Bucket Size: Optical Tails: Ref: HDM 05-03FOP-/02P 2.5 mm dia O - Rings: Optical paths: 2xFibre Optic (Multi/Single Mode) Typical Insertion Loss: ≤ 0.5 dB 316 Stainless Steel Aluminium Silicon Bronze Body: Fix Ring: Pin Socket Typical (SM) Back Reflection: Pin Current Rating: 20 Am Optical Alignment Sleeve: Optical Alignment Sleeve: Optical Alignment Sleeve: CZ121/Au CZ121/Au CZ121/Au <-30 dB return loss Pin Voltage Rating: 20 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: 3,000 MOhms @ 1,000 V dc A Ceramic 2 B 1 Spec 44 x 1.0m Simplex ruggardised x 1.0m Terminated: ST Connectors -20 ° C to +60 ° C 12 AWG Temperature Rating: Conductor Tails: Optical Tails: Conductor Tail Size: Ref: HDM 05-03FOP-/04P Solder Bucket Size: 2.5 mm dia O - Rings: 316 Stainless Steel 4xFibre Optic (Multi/Single Mode) Optical paths: Body: Pin Typical Insertion Loss: ≤ 0.5 dB Fix Ring: Aluminium Silicon Bronze Socket Typical (SM) Back Reflection: Pin Current Rating: 20 Amp <-30 dB return loss Back Shell: N/A Back Shell: N/A Optical Ferrule: Ce Optical Alignment Sleeve: Contact Pins: CZ Contact Sockets: CZ 20 Amps 1,000 V rms Ceramic Pin Voltage Rating: Contact to Contact IR: Contact to Body IR: Ceramic ve: CZ121/Au CZ121/Au >1,000 V IIIS >1,000 MOhms @ 1,000 V dc >1,000 MOhms @ 1,000 V dc 3,450 MSW -20 ° C to +60 ° C 12 AWG CZ12 I/Au Peek Spec 44 x 1.0m Simplex ruggardised x 1.0m Terminated: ST Connectors Mated Depth Rating: Insert Material: Temperature Rating: Conductor Tail Size: Conductor Tails: Optical Tails: Ref: HDM 05-04FOP-/02P Solder Bucket Size: 2.5 mm dia O - Rings:













## HDM (Hydrobond Deck Mate) Surface Mateable all Optical Connectors & Hybrid Optical / Electrical Connectors: Specifications

#### **Face Views Electrical and Environmental Standard Material Specification** 4xFibre Optic (Multi/Single Mode) 316 Stainless Steel Socket Pin Typical Insertion Loss: ≤ 0.5 dB Typical (SM) Back Reflection: Fix Ring: Back Shell: Aluminium Silicon Bronze <-30 dB return loss Pin Current Rating: Optical Ferrule: Ceramic Pin Voltage Rating: 1,000 V ms Contact to Contact IR: >1,000 MOhms @ 1,000 V dc Contact to Body IR: >1,000 MOhms @ 1,000 V dc Optical Alignment Sleeve: Contact Pins: Contact Sockets: CZ Ceramic ve: CZ121/Au CZ121/Au Mated Depth Rating: Temperature Rating: 3,450 MSW -20 ° C to +60 ° C 12 AWG Insert Material: Conductor Tails: Peek Spec 44 x 1.0m Simplex ruggardised x 1.0m Terminated: ST Connectors Ref: HDM 05-04FOP-/03P Conductor Tail Size: Optical Tails: Solder Bucket Size: 2.5 mm dia O – Rings: Optical paths: 5xFibre Optic (Multi/Single Mode) Typical Insertion Loss: ≤ 0.5 dB Typical (SM) Back Reflection: <-30 dB return loss 316 Stainless Steel Aluminium Silicon Bronze Body: Fix Ring: Socket Pin Back Shell: N/A Pin Current Rating: Optical Ferrule: Ce Optical Alignment Sleeve: Contact Pins: N// Ceramic A Pin Voltage Rating: N/A Contact to Contact IR: N/A Contact to Body IR: N/A Ceramic B N/A 3,450 MSW -20 ° C to +6 Contact Sockets: N/A Mated Depth Rating: Temperature Rating: Insert Material: C to +60 ° C Conductor Tails: Simplex ruggardised x 1.0m Terminated: ST Connectors Optical Tails: Ref: HDM 05-05FOP-/0P Conductor Tail Size: Solder Bucket Size: O - Rings: Body: Fix Ring: Back Shell: Optical Ferrule: Optical paths: 6xFibre Optic (Multi/Single Mode) Typical Insertion Loss: ≤ 0.5 dB 316 Stainless Steel Aluminium Silicon Bronze Socket Pin ypical (SM) Back Reflection: N/A Ceramic <-30 dB return loss Pin Current Rating: A Pin Voltage Rating: N/A Contact to Contact IR: N/A Optical Alignment Sleeve: Contact Pins: Ceramic Contact to Body IR: Mated Depth Rating: N/A 3,450 MSW Contact Sockets: Insert Material: N/A Simplex ruggardised x 1.0m Terminated: ST Connectors Temperature Rating: -20 ° C to +60 ° C N/A Conductor Tails: Conductor Tail Size: Optical Tails: Ref: HDM 05-06FOP-/0P Solder Bucket Size: pucal paths: 7xFibre Optic (Multi/Single Mode) Typical (SM) Back Reflection: <-30 dB return loss Pin Current Rating: N/A Pin Voltage Rating: N/A O – Rings: 316 Stainless Steel Aluminium Silicon Bronze Body: Fix Ring: Socket Pin Back Shell: Optical Ferrule: N/A Ceramic (BA) Pin Voltage Rating: N/A Contact to Contact IR: N/A Contact to Body IR: N/A Mated Depth Rating: 3,45 Optical Alignment Sleeve: Contact Pins: N// Ceramic BGB Contact Sockets: N/A **0 0**, 3,450 MSW Insert Material: N/A Simplex ruggardised x 1.0m Terminated: ST Connectors Temperature Rating: Conductor Tail Size: Conductor Tails: Optical Tails: -20 ° C to +60 ° C Ref: HDM 05-07FOP-/0P Solder Bucket Size: O - Rings:

## **Custom Product Design**

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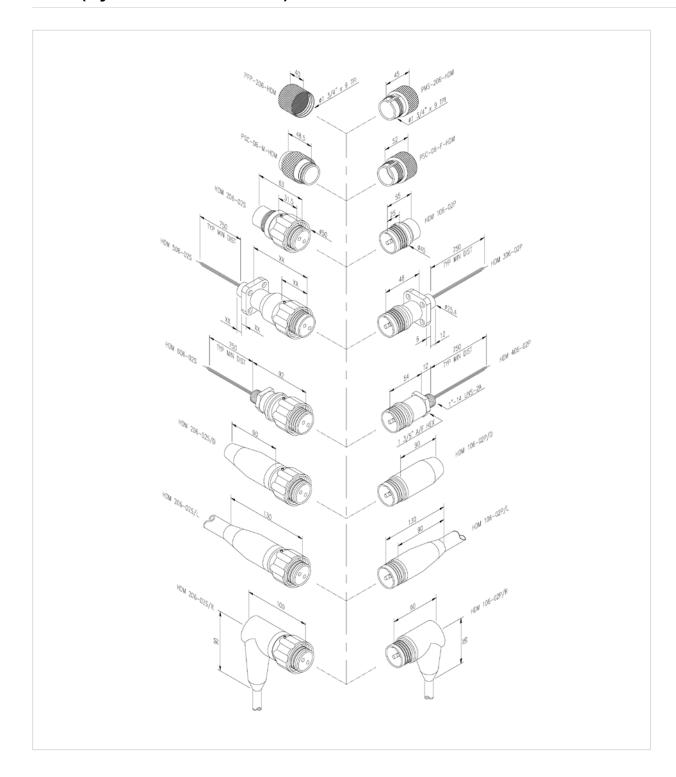








# Surface Mateable all Optical & Hybrid Optical / Electrical Connectors HDM (Hydrobond Deck Mate): Shell Size 6 / Connector Details







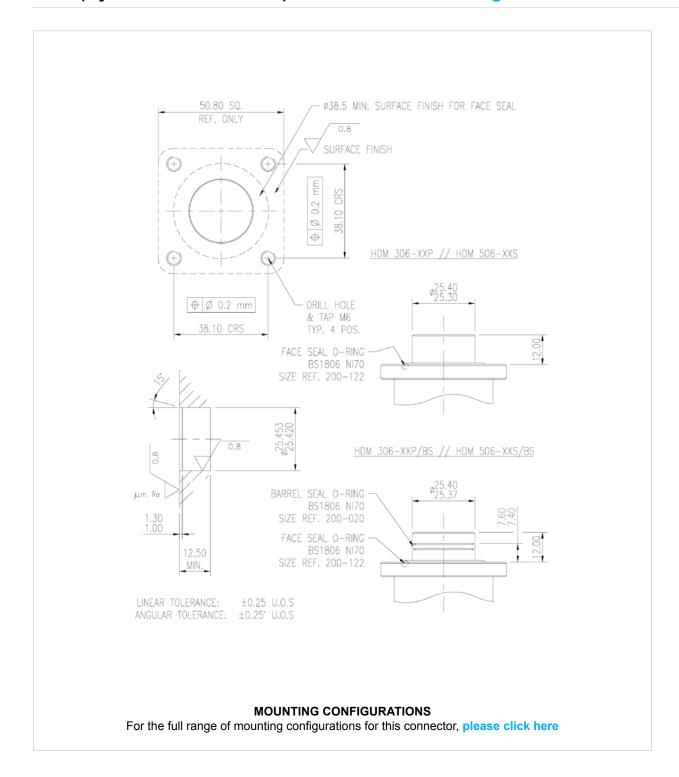








# Surface Mateable all Optical & Hybrid Optical / Electrical Connectors HDM (Hydrobond Deck Mate): Shell Size 6 / Mounting Details















## HDM (Hydrobond Deck Mate) Surface Mateable all Optical Connectors & Hybrid Optical / Electrical Connectors: Specifications

#### **Face Views Electrical and Environmental Standard Material Specification** Optical paths: 2xFibre CTypical Insertion Loss: $\leq 0.5 \text{ dB}$ 2xFibre Optic (Multi/Single Mode) 316 Stainless Steel Body Fix Ring: Aluminium Silicon Bronze Socket Pin Typical (SM) Back Reflection: Pin Current Rating: 20 Am Back Shell: Optical Ferrule: <-30 dB return loss Iypical (SM) Back Reflection: <-30 dB return loss Pin Current Rating: 20 Amps Pin Voltage Rating: 1,000 V rms Contact to Contact IR: >1,000 MOhms @ 1,000 V dc Attended Depth Rating: 3,450 MSW Temperature Rating: -20 ° C to +60 ° C Conductor Tail Size: 25 Fame dia Ceramic Optical Alignment Sleeve: Contact Pins: CZ121/Au Contact Sockets: CZ121/Au Ceramic Insert Material: Peek Spec 44 x 1.0m Simplex ruggardised x 1.0m Terminated: ST Connectors Conductor Tails: Optical Tails: Ref: HDM 06-02FOP-/06P Solder Bucket Size: 2.5 mm dia O - Rings: Optical paths: 4xFibre Optic (Multi/Single Mode) Body: Fix Ring: Back Shell: 316 Stainless Steel Optical parts. AxFibre Optic (withinshighe Mortypical Insertion Loss: ≤ 0.5 dB Typical (SM) Back Reflection: <-30 dB return loss Pin Current Rating: 20 Amps Pin Voltage Rating: 1,000 V rms Contact to Contact IR: >1,000 MOhms @ 1,000 V dc Noted Post Partie: 2,450 MSW. Socket Pin Aluminium Silicon Bronze Elx Maria Back Shell: Optical Ferrule: Optical Alignment Sleeve: Contact Pins: CZ121/Au CZ121/Au Cack <-30 dB return loss Ceramic Mated Depth Rating: Temperature Rating: 3,450 MSW -20 ° C to +60 ° C 12 AWG Insert Material: Peek Spec 44 x 1.0m Conductor Tails: Simplex ruggardised x 1.0m Terminated: ST Connectors Conductor Tail Size: Optical Tails: Ref: HDM 06-04FOP-/04P Solder Bucket Size: 2.5 mm dia O - Rings: Body: Fix Ring: Back Shell: 316 Stainless Steel Optical paths: 8xFibre Optic (Multi/Single Mode) Pin Socket Typical Insertion Loss: ≤ 0.5 dB Typical (SM) Back Reflection: Aluminium Silicon Bronze N/A <-30 dB return loss Ceramic Pin Current Rating: Optical Ferrule: Ce Optical Alignment Sleeve: Pin Voltage Rating: Ceramic Contact to Contact IR: N/A Contact to Body IR: N/A Contact Pins: Contact Sockets: N/A 3,450 MSW Mated Depth Rating: Temperature Rating: Insert Material: Conductor Tails: Optical Tails: ° C to +60 ° C Simplex ruggardised x 1.0m Terminated: ST Connectors Ref: HDM 06-08FOP-/0P Conductor Tail Size Solder Bucket Size: O – Rings:

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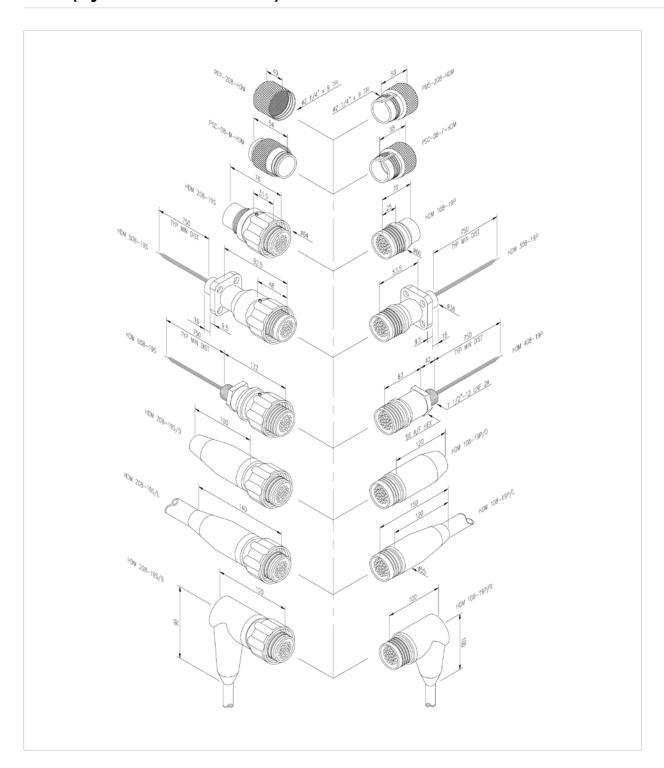








Surface Mateable all Optical & Hybrid Optical / Electrical Connectors HDM (Hydrobond Deck Mate): Shell Size 8 / Connector Details







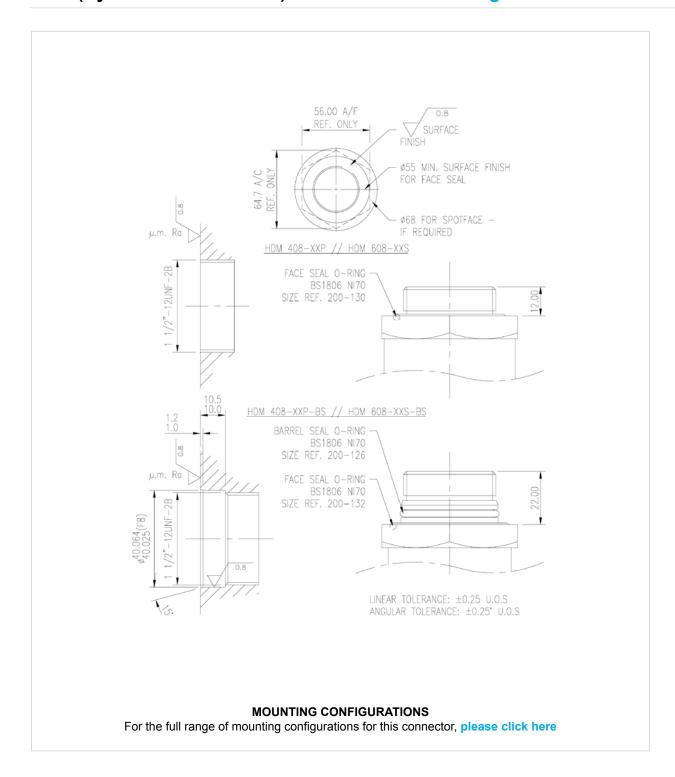








# Surface Mateable all Optical & Hybrid Optical / Electrical Connectors HDM (Hydrobond Deck Mate): Shell Size 8 / Mounting Details















## HDM (Hydrobond Deck Mate) Surface Mateable all Optical Connectors & Hybrid Optical / Electrical Connectors: Specifications

#### **Face Views Electrical and Environmental** Standard Material Specification 2xFibre Optic (Multi/Single Mode) Pin Typical Insertion Loss: \$ 0.5 dB Typical (SM) Back Reflection: Pin Current Rating: 20 Amps Fix Ring: Back Shell: Aluminium Silicon Bronze Back Shell: Optical Ferrule: Ceramic Optical Alignment Sleeve: Contact Pins: CZ121/Au 1-24 Sockets: CZ121/Au <-30 dB return loss 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 **A** Ceramic Mated Depth Rating: Temperature Rating: 3,450 MSW -20 ° C to +60 ° C 12 AWG Peek Spec 44 x 1.0m Insert Material: Conductor Tails: Simplex ruggardised x 1.0m Terminated: ST Connectors Conductor Tail Size Optical Tails: Ref: HDM 08-02FOP-/08P Solder Bucket Size: 2.5 mm dia O - Rings: Optical paths: 3xFibre Optic (Multi/Single Mode) Typical Insertion Loss: ≤ 0.5 dB 316 Stainless Steel Aluminium Silicon Bronze Body: Fix Ring: Socket Pin Optical Alignment Sleeve: Optical Pins: CZ121/Au CZ121/Au CZ121/Au Typical (SM) Back Reflection: <-30 dB return loss Pin Current Rating: Pin Voltage Rating Pin Voltage Rating: 1,000 v ms Contact to Contact IR: >1,000 v 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: 12 AWG 6 B 2 Peek Conductor Tails: Optical Tails: Spec 44 x 1.0m Simplex ruggardised x 1.0m Terminated: ST Connectors Ref: HDM 08-03FOP-/06P Solder Bucket Size: 2.5 mm dia O – Rings: Body: Fix Ring: Back Shell: Optical Ferrule: Optical paths: 2xFibre Optic (Multi/Single Mode) Typical Insertion Loss: ≤ 0.5 dB 316 Stainless Steel Aluminium Silicon Bronze Pin N/A Ceramic Typical (SM) Back Reflection: <-30 dB return loss Pin Current Rating: Pin Voltage Rating: Contact to Contact IR: 20 Amps 1,000 V rms >1,000 MOhms @ 1,000 V dc >1,000 MOhms @ 1,000 V dc 3,450 MSW Optical Ferrule: Optical Alignment Sleeve: Contact Pins: CZ121/Au Contact Sockets: Insert Material: Peek CZ121/Au D A Ceramic 1 Contact to Body IR: Mated Depth Rating: ВС **G B**, Spec 44 x 1.0m Simplex ruggardised x 1.0m Terminated: ST Connectors -20 ° C to +60 ° C Temperature Rating: Conductor Tails: Conductor Tail Size: Optical Tails: Ref: HDM 08-04FOP-/02P Solder Bucket Size: 2.5 mm dia O – Rings: Optical paths: 4xFibre Optic (Multi/Single Mode) Typical Insertion Loss: ≤ 0.5 dB Typical (SM) Back Reflection: <-30 dB return loss Pin Current Rating: 20 Amps 316 Stainless Steel Aluminium Silicon Bronze Body: Fix Ring: Pin Socket Back Shell: Optical Ferrule: N/A Optical Ferrule: Optical Alignment Sleeve: Contact Pins: CZ121/Au Contact Sockets: CZ121/Au \*\*Material: Peek 20 Amps 1,000 V rms >1,000 MOhms @ 1,000 V dc 3,450 MSW -20 ° C to +60 ° C Pin Current Rating. 2 Pin Voltage Rating: 1 Contact to Contact IR: > Contact to Body IR: > Mated Depth Rating: 3 Ceramic Spec 44 x 1.0m Simplex ruggardised x 1.0m Terminated: ST Connectors Temperature Rating: Conductor Tail Size: Conductor Tails: Optical Tails: 12 AWG Ref: HDM 08-04FOP-/06P Solder Bucket Size: O - Rings: Optical paths: Typical Insertion Loss: Body: Fix Ring: 316 Stainless Steel Aluminium Silicon Bronze 4xFibre Optic (Multi/Single Mode) ≤ 0.5 dB Socket Pin Typical (SM) Back Reflection: Pin Current Rating: 20 Am Pin Voltage Rating: 1,000 Contact to Contact IR: >1,000 Back Shell: Optical Ferrule: N/A Ceramic <-30 dB return loss 20 Amps 1,000 V rms >1,000 MOhms @ 1,000 V dc 3,450 MSW Optical Alignment Sleeve: Contact Pins: CZ Ceramic CZ121/Au CZ121/Au Peek Contact to Body IR: Contact Sockets: Insert Material: Mated Depth Rating: -20 ° C to +60 ° C 12 AWG Spec 44 x 1.0m Simplex ruggardised x 1.0m Terminated: ST Connectors Temperature Rating: Conductor Tail Size: Conductor Tails: Optical Tails: Ref: HDM 08-04FOP-/08P Solder Bucket Size: 2.5 mm dia O - Rings: Optical paths: 6xFibre Typical Insertion Loss: ≤ 0.5 dl Typical (SM) Back Reflection: Pin Current Rating: 20 Amp 316 Stainless Steel 6xFibre Optic (Multi/Single Mode) Body: Fix Ring: Back Shell: Socket Pin Aluminium Silicon Bronze <-30 dB return loss N/A Optical Ferrule: Ceramic **8 8 9 9** Pin Voltage Rating: Pin Voltage Rating: Contact to Contact IR: Contact to Body IR: Mated Depth Rating: 1,000 V rms >1,000 MOhms @ 1,000 V dc >1,000 MOhms @ 1,000 V dc Optical Alignment Sleeve: Ceramic Contact Pins: Contact Sockets: N/A N/A 00 Insert Material: Temperature Rating: Conductor Tail Size: -20 ° C to +60 ° C 12 AWG Conductor Tails: Optical Tails: Simplex ruggardised x 1.0m Terminated: ST Connectors Ref: HDM 08-06FOP-/04P Solder Bucket Size: 2.5 mm dia O - Rings:













## HDM (Hydrobond Deck Mate) Surface Mateable all Optical Connectors & Hybrid Optical / Electrical Connectors: Specifications

#### **Face Views Electrical and Environmental Standard Material Specification** Optical paths: 6xFibre Optic (Multi/Single Mode) Typical Insertion Loss: $\leq$ 0.5 dB Body: Fix Ring: Back Shell: Optical Ferrule: 316 Stainless Steel Socket Pin Aluminium Silicon Bronze Typical (SM) Back Reflection: Pin Current Rating: 20 Am <-30 dB return loss Ceramic 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 Optical Alignment Sleeve: Contact Pins: Ceramic CZ121/Au CZ121/Au Contact Sockets: Insert Material: Peek Spec 44 x 1.0m Simplex ruggardised x 1.0m Terminated: ST Connectors -20 ° C to +60 ° C 12 AWG Conductor Tails: Optical Tails: Temperature Rating: Ref: HDM 08-06FOP-/05P Conductor Tail Size: Solder Bucket Size: 2.5 mm dia O - Rinas: Optical paths: 6xFibre C Typical Insertion Loss: ≤ 0.5 dB Typical (SM) Back Reflection: Pin Current Rating: 20 Amps Body: Fix Ring: Back Shell: Optical Ferrule: 316 Stainless Steel Aluminium Silicon Bronze 6xFibre Optic (Multi/Single Mode) Pin Socket <-30 dB return loss Ceramic Pin Current Rating. 2 Pin Voltage Rating: 1 Contact to Contact IR: > Contact to Body IR: > Mated Depth Rating: 3 20 Artips >1,000 V ms >1,000 MOhms @ 1,000 V dc >1,000 MOhms @ 1,000 V dc 3,450 MSW -20 °C to +60 °C 12 AWG Optical Alignment Sleeve: Contact Pins: CZ121/Au Contact Sockets: CZ121/Au Insert Material: Peek Spec 44 x 1.0m Simplex ruggardised x 1.0m Terminated: ST Connectors Temperature Rating: Conductor Tail Size: Conductor Tails: Optical Tails: Ref: HDM 08-06FOP-/08P Solder Bucket Size: 2.5 mm dia O – Rings: Optical paths: 10xFibre Optic (Multi/Single Mode) Typical Insertion Loss: ≤ 0.5 dB Typical (SM) Back Reflection: <-30 dB return loss Pin Current Rating: N/A Pin Voltage Rating: N/A Contact to Contact IR: N/A Contact to Robus IR: N/A Contact to Robus IR: N/A Body: Fix Ring: Back Shell: 316 Stainless Steel Aluminium Silicon Bronze Pin Socket N/A Ceramic Optical Ferrule: Cera Optical Alignment Sleeve: Contact Pins: N/A 60 06 60 06 Ceramic Contact to Body IR: Mated Depth Rating: Contact Sockets: Insert Material: N/A Peek 80 Temperature Rating: Conductor Tail Size: Solder Bucket Size: -20 ° C to +60 ° C Conductor Tails: Simplex ruggardised x 1.0m Terminated: ST Connectors Optical Tails: Ref: HDM 08-10FOP-/0P O – Rings:

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