

Hydro Bond Engineering Ltd

Surface Mateable Coaxial Connectors: Metal Keyed / Rubber Keyed : HRS / HDM / HYB















Metal Keyed / Rubber Keyed : HRS (Hydro Bond Rubber Sealing) HDM (Hydro Bond Deck Mate) : HYB (Hydro Bond Hybrid)

Hydro Bond Engineering Ltd offer Surface Mateable Coaxial 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.



HDM: Hydro Bond Deck Mate (Connector)

Features

- Proven Shock Tested Design
- Metal Key provides positive scoop proof connection (HYB only)
- Fully pressure blocked 50-Ohm and 75-Ohm coaxial inserts (HYB only)
- Coaxial insert trace tested to 1.6 GHz
- HYB Type tested to 86 Bar open face pressure
- HRS Connectors Depth rated to 2,450 MSW mated
- Metal Shell Construction
- Available in 2 shell sizes
- Bulkhead Mount and Panel Mount Designs available as standard



- · Coaxial densities up to 4 of 50-Ohm or 75-Ohm Coaxial paths
- Available in Nickel Aluminium Bronze or 316 Stainless Steel and Titanium etc on request
- 0.75 metre coaxial tails on all bulkhead connectors as standard with other lengths on request
- Optional Earth Bonding
- Optional Cathodic delamination version available
- Moulding options include Polyurethane and or Polyethylene



HRS: Hydro Bond Rubber Sealing (Connector)















Metal Keyed / Rubber Keyed : HRS (Hydro Bond Rubber Sealing) HDM (Hydro Bond Deck Mate) : HYB (Hydro Bond Hybrid)

Benefits

- · Easy to use
- Proven Shock tested design
- 50-Ohm and 75-Ohm coaxial paths allow noise free high data rate transmission
- · Wide variety of metal options allows for best corrosion resistant design



HRS: Hydro Bond Rubber Sealing (Connector)



HDM: Hydro Bond Hybrid (Deck Mate)



HYB: Hydro Bond Hybrid (Connector)

Specifications

The following page features HRS, HDM and HYB Underwater Mateable Coaxial Connectors that have been designed, manufactured and field tested. The following chart features the socket / pin (face view) configurations, together with electrical, environmental and standard material specifications.





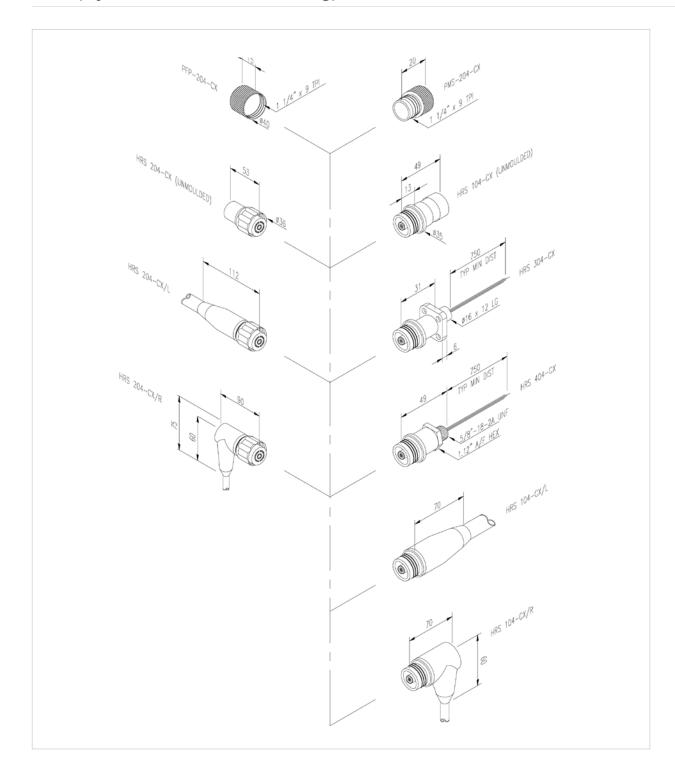








Metal Keyed / Rubber Keyed HRS (Hydro Bond Rubber Sealing): Shell Size 4 / Connector Details







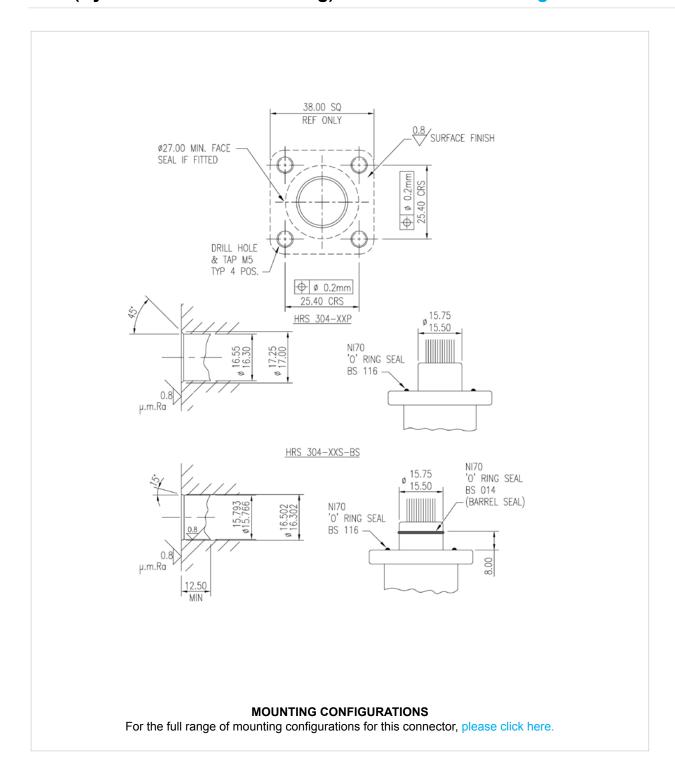








Metal Keyed / Rubber Keyed HRS (Hydro Bond Rubber Sealing): Shell Size 4 / Mounting Details















Metal Keyed / Rubber Keyed HRS (Hydro Bond Rubber Sealing): Specifications

Electrical and Environmental

Standard Material Specification

Face Views

HRS (Hydro Bond Rubber Sealing) Surface Mateable Coaxial Connector

Pin Current Rating: Pin Voltage Rating: N/A

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 MSW Temperature Rating: -20 ° C to +60 ° C

50 ? Ohm Conductor Tail Size: Solder Bucket Size:

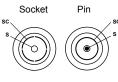
N/A

Body: 316 Stainless Steel Fix Ring: Aluminium Silicon Bronze Back Shell: N/A

Contact Pins: CZ121/Au Contact Sockets: CZ121/Au Neoprene Insert Material:

Spec RG58 x 0.75 m Conductor Tails:

NI70 O - Rings:



Ref: HRS 04-CX (coaxial)

Custom Product Design

Not found what you are looking for?

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







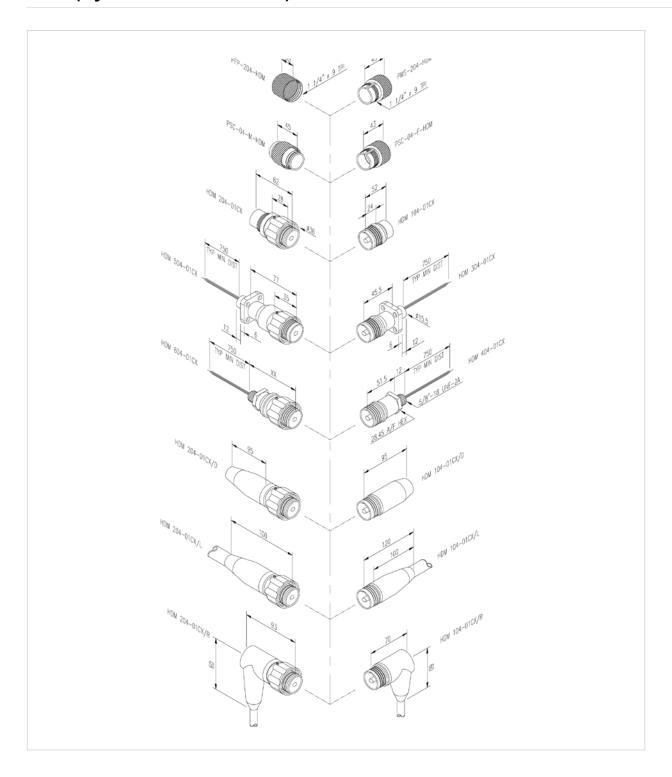








Metal Keyed / Rubber Keyed HDM (Hydro Bond Deck Mate): Shell Size 4 / Connector Details







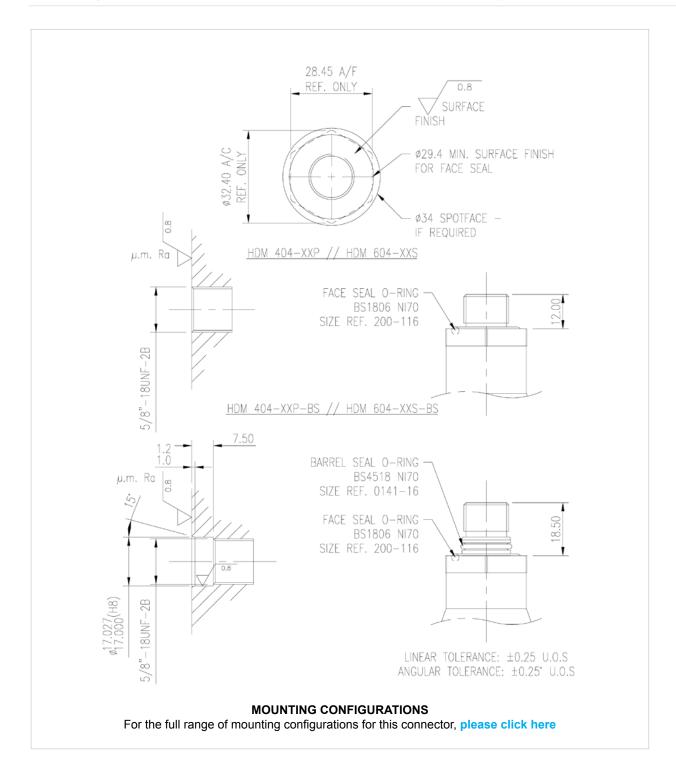








Metal Keyed / Rubber Keyed HDM (Hydro Bond Deck Mate): Shell Size 4 / Mounting Details















Metal Keyed / Rubber Keyed:

HDM (Hydro Bond Deck Mate): Specifications

Electrical and Environmental

Standard Material Specification

Face Views

HDM (Hydro Bond Deck Mate) Surface Mateable Coaxial Connector

Coax Impedance: Coax Power Rating: 120 Watts Coax Freq'y Rating: 1,600 Mhz

Contact to Body IR: Mated Depth Rating: Temperature Rating:

Coax Tail Size: Coax Connection: 50 Ohm or 75 Ohm

Contact to Contact IR: >1,000 MOhms @ 1,000 V dc >1,000 MOhms @ 1,000 V dc 3,450 MSW -20 ° C to +60 ° C

Contact office for full list To fit SMC Plug

316 Stainless Steel Body: Fix Ring: Aluminium Silicon Bronze Back Shell: N/A

Coax Pins: BeCu/Au Coax Sockets: BeCu/Au Insert Material: Peek Conductor Tails: 1 metre standard

O – Rings: NI70





Ref: HDM 04-01CX

Custom Product Design

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







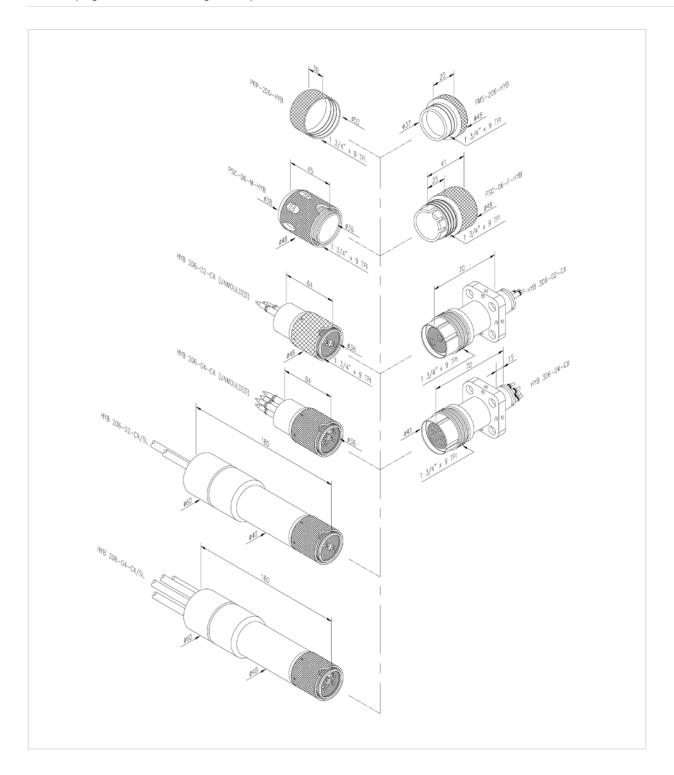








Metal Keyed / Rubber Keyed HYB (Hydro Bond Hybrid): Shell Size 6 / Connector Details















Metal Keyed / Rubber Keyed HYB (Hydro Bond Hybrid): Shell Size 6 / Mounting Details















Metal Keyed / Rubber Keyed: **HYB (Hydro Bond Hybrid): Specifications**

Electrical and Environmental

Standard Material Specification

Face Views

HYB (Hydro Bond Hybrid) Surface Mateable Coaxial Connector, Metal Keyed

Coax Impedance: Coax Power Rating: Coax Freq'y Rating:

1,600 Mhz Contact to Body IR: Mated Depth Rating:

Temperature Rating: Coax Tail Size: Coax Connection:

50 Ohm or 75 Ohm 120 Watts

Contact to Contact IR: >1,000 MOhms @ 1,000 V dc >1,000 MOhms @ 1,000 V dc 1,000 MSW

-20 ° C to +60 ° C Contact office for full list To fit SMC Plug

Body: Fix Ring: Aluminium Silicon Bronze Back Shell: N/A Coax Pins: BeCu/Au

Coax Sockets: BeCu/Au Insert Material: Neoprene Conductor Tails: 1 metre standard

NI70 O - Rings:











Ref: HYB 06-02CX **HYB 06-04CX**

HYB (Hydro Bond Hybrid) Surface Mateable Coaxial & Electrical Hybrid Connector, Metal Keyed

Coax Impedance: Coax Power Rating: Coax Freq'y Rating:

1.600 Mhz Pin Current Rating: Pin Voltage Rating:

Contact to Body IR: Mated Depth Rating: Temperature Rating:

Coax Tail Size: Solder Bucket Size: Coax Connection:

50 Ohm or 75 Ohm 120 Watts

4x25 Amps & 14x10 Amps

1,000 Volts RMS Contact to Contact IR: >1,000 MOhms @ 1,000 V dc

>1,000 MOhms @ 1,000 V dc 1,000 MSW -20 ° C to +60 ° C Contact office for full list

4x4.0mm dia. 14x2.5 mm dia To fit SMC Plug

Body: Fix Ring: Back Shell: Contact Pins:

Contact Sockets: Coax Pins: Coax Sockets: Insert Material: Conductor Tails:

Coax Tails: O - Rinas:

Aluminium Nickel Bronze Aluminium Nickel Bronze N/A

CZ121/Au CZ121/Au BeCu/Au BeCu/Au Neoprene

Spec 44x1.0 Metre 1 metre standard

NI70

Socket





Ref: HYB 09-04CX-18

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