



Hydro Group

Connected by **Amphenol**

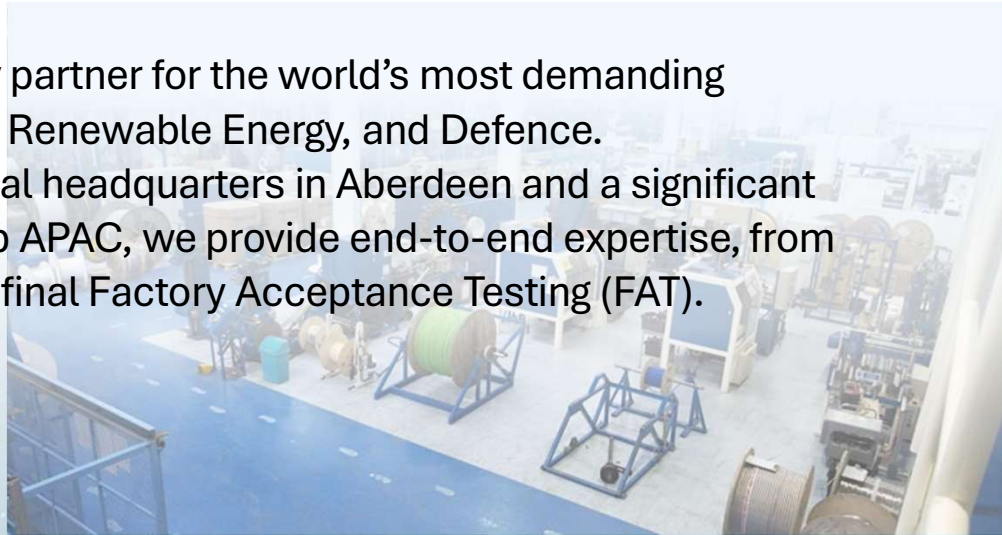
SUBSEA
CONNECTOR & PENETRATOR

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Founded in Aberdeen, Scotland, in 1982, Hydro Group has spent over four decades at the forefront of the subsea industry. What began as a specialist engineering team (Hydro Bond Engineering and Hydrocable Systems) has evolved into a global leader in the design and manufacture of bespoke subsea connectivity solutions.

Today, Hydro Group is a key partner for the world's most demanding sectors—Oil & Gas, Marine Renewable Energy, and Defence.

With a state-of-the-art global headquarters in Aberdeen and a significant regional hub in Hydro Group APAC, we provide end-to-end expertise, from initial prototype concept to final Factory Acceptance Testing (FAT).



Core Strength

- Global defense industry track record (including NATO countries and UK MOD projects).
- Solutions adaptable to earthquake, humid-heat, and corrosive.
- Support for ITAR / EAR export restrictions, with compliant handling of sensitive items.
- Global manufacturing capacity, combined with a network of technical agents for localized deployment.
- Rapid prototyping, supporting customized integration assessment and pre-implementation testing.

Key Partners



THALES



babcock

ULTRA MARITIME

BAE SYSTEMS

- ROV
- AUV
- UUV



- Renewable Energy
- Wind Power
- Oil & Gas



- Defense Submarines
- Nuclear Cooling System



- Coastal Monitoring
- Aquaculture

Why Shall You Choose Hydro Group



- Unrivalled Pressure Resistance - Rated up to 10,000 psi
- Extreme Depth Water-blocking
- HRC Voltage up to 66KV
- Salt-Spray & Corrosion Resistant
- Marine-Grade Corrosion Protection
- 35-Year Service Life Guarantee
- Full Bespoke Capability
- Wet-Mate Available



Connectors

Series	Designed for	Pin Count Range (Ways)	Wet-Mate	Dry-Mate	High Current	High Voltage	Data/Fiber	Depth>2K meter
HXD	Power & Control	1 to 70 pins	✓		✓	✓		✓
HDM	Power & Control	2 to 110 pins		✓		✓		✓
HMK	Power & Control	1 to 70 pins	✓		✓	✓		✓
HRS	Power & Control	1 to 70 pins	✓		✓	✓		✓
HRC	Power & Hybrid	3 - 4 Power + 36 Fiber		✓	✓	✓	Hybrid	
HYB	High Speed Data	Up to 4 Coax + 18 Elec		✓			✓	✓
SDM	Strategic Hybrid	Bespoke		✓			✓	✓
HRM	Versatile Signal Solutions	1 to 25 pins	✓				✓	✓

Penetrators

Category	Manned Rated	Media Type	Mounting Style	Max Depth	Key Features & Applications
HPS	Optional (✓)	Electrical	NPT / UNF / Flanged	10,000 psi	Industry Standard: Ideal for ROV/AUV systems or Manned Diving Bells.
Optical & Hybrid	Optional (✓)	Optical / Hybrid	NPT / UNF / Flanged	10,000 psi	High Bandwidth: Engineered for fiber optic or opto-electric signal transfer.
Bespoke Systems	Optional (✓)	Custom	Tailored to Suit	10,000 psi	Tailor-made: Designed for extreme pressures or unique shell configurations.

HMK (Hydro Group Metal Keyed) Connector



Features

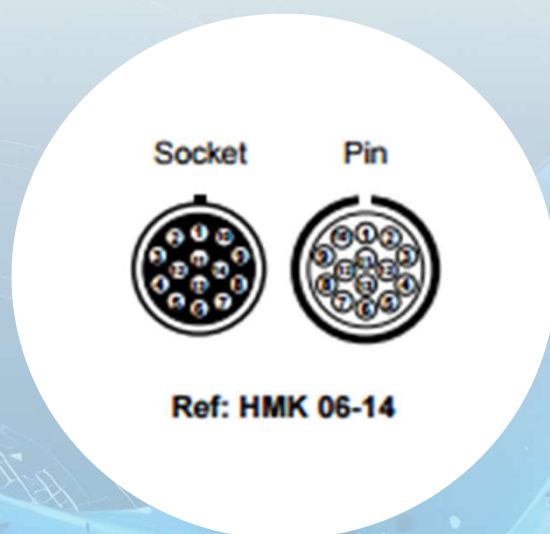
- Underwater Mateable
- Proven Shock Tested design
- Depth rated to 2,440 MSW
- Fully open face pressure sealed
- Metal Shell Construction
- Available in 5 shell sizes
- Bulkhead Mount and Panel Mount Designs available
- as standard
- Mounting O-Ring face seals and optional Barrel
- seals available as standard
- Pin Densities from 1 to 70 ways
- Voltage ratings up to 3,300 Volts RMS
- Current ratings up to 750 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
- 0.75 metre conductor tails on all bulkhead connectors as standard with other lengths on request
- Optional Earth Bonding
- Optional Cathodic delamination versions available
- Termination options include fully water blocked, mechanical strain terminations and oil filled options
- Moulding options include Polyurethane and Polyethylene
- Acetal dust caps included on all connectors (additional lanyards on request)

Shell Size 6

Standard Material Specification

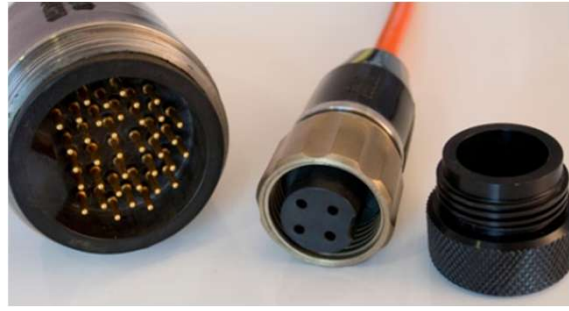
- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 1.0 m
- O – Rings: NI70

Technical drawings of various HMK 206 and HMK 106 cable gland models. The drawings show different configurations including straight, angled, and bent versions. Dimensions are provided for each model, such as HMK 206-145, HMK 506-145, HMK 406-145, HMK 206-145/D, HMK 206-145/L, HMK 206-145/R, HMK 106-14P, HMK 306-14P, HMK 406-14P, HMK 106-14P/D, HMK 106-14P/L, and HMK 106-14P/R. Dimensions include diameters (e.g., Ø1.5/1.2), lengths (e.g., 75.0, 74.0), and mounting hole dimensions (e.g., 8.0, 10.0).



* Custom Product Design Available

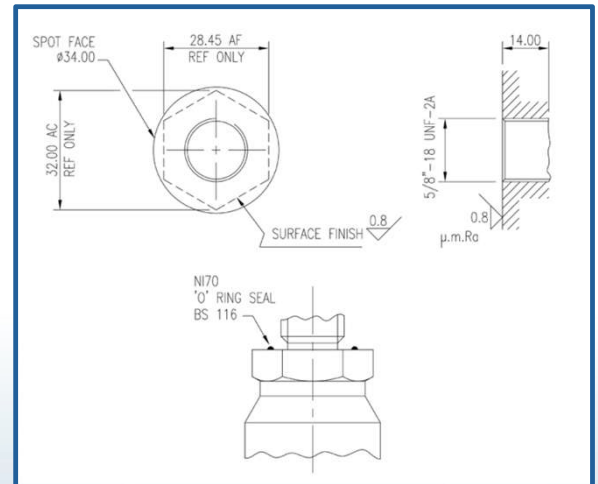
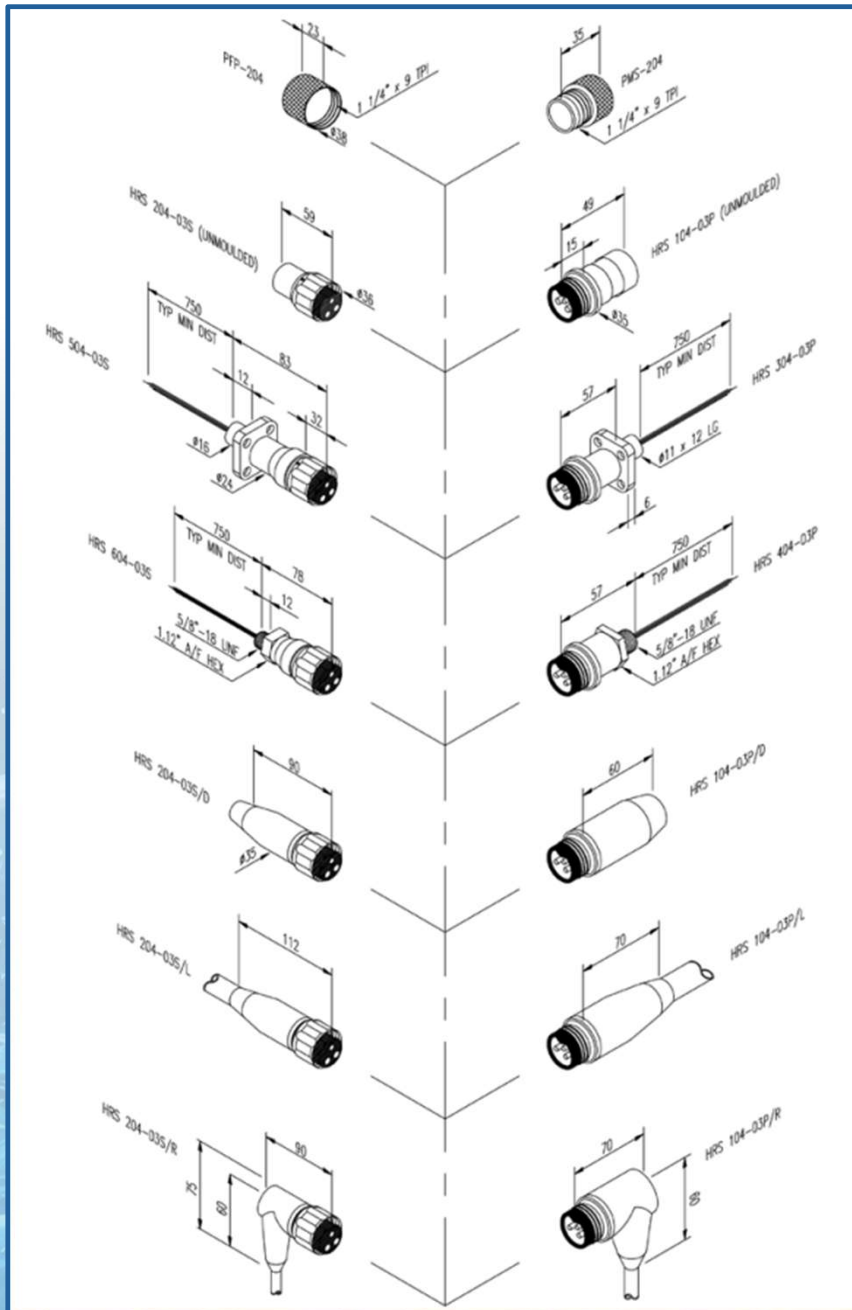
HRS (Hydro Group Rubber Sealing) Connector



Features

- Underwater Mateable
- Proven Shock Tested design
- Depth rated to 2,440 MSW
- Fully open face pressure sealed
- Metal Shell Construction
- 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
- Pin Densities from 1 to 70 ways
- Voltage ratings up to 3,300 Volts RMS
- Current ratings up to 750 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
- 0.75 metre conductor tails on all bulkhead connectors as standard with other lengths on request
- Optional Earth Bonding
- Optional Cathodic delamination versions available
- Termination options include fully water blocked, mechanical strain terminations and oil filled options
- Moulding options include Polyurethane and Polyethylene
- Acetal dust caps included on all connectors (additional lanyards on request)

Shell Size 4 Mechanical Details & Mounting Configurations



* Custom Product Design Available

Specification

Shell Size 4

3 CONTACTS

Electrical & Environmental

- Pin Current Rating: 1 way 10 A, 2 way 25 A
- 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 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 18 AWG / 14 AWG
- Solder Bucket Size: 1 X 2.5 mm dia, 2 X 3.0 mm dia

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O-Rings: NI70

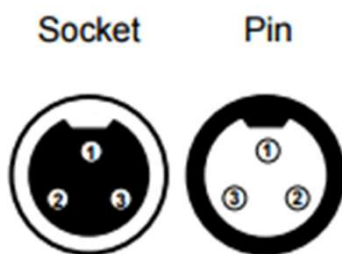
4 CONTACTS

Electrical & Environmental

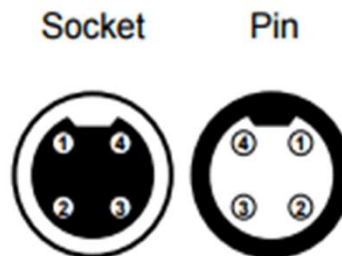
- Pin Current Rating: 8 AMPS
- Pin Voltage Rating: 2,000 V rms
- Contact to Contact IR: >1,000 MOhms @ 1,000 V dc
- Contact to Body IR: >1,000 MOhms @ 1,000 V dc
- Mated Depth Rating: 2,440 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O-Rings: NI70



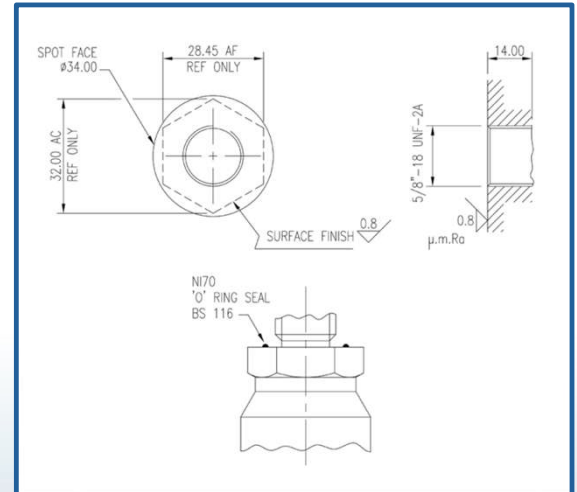
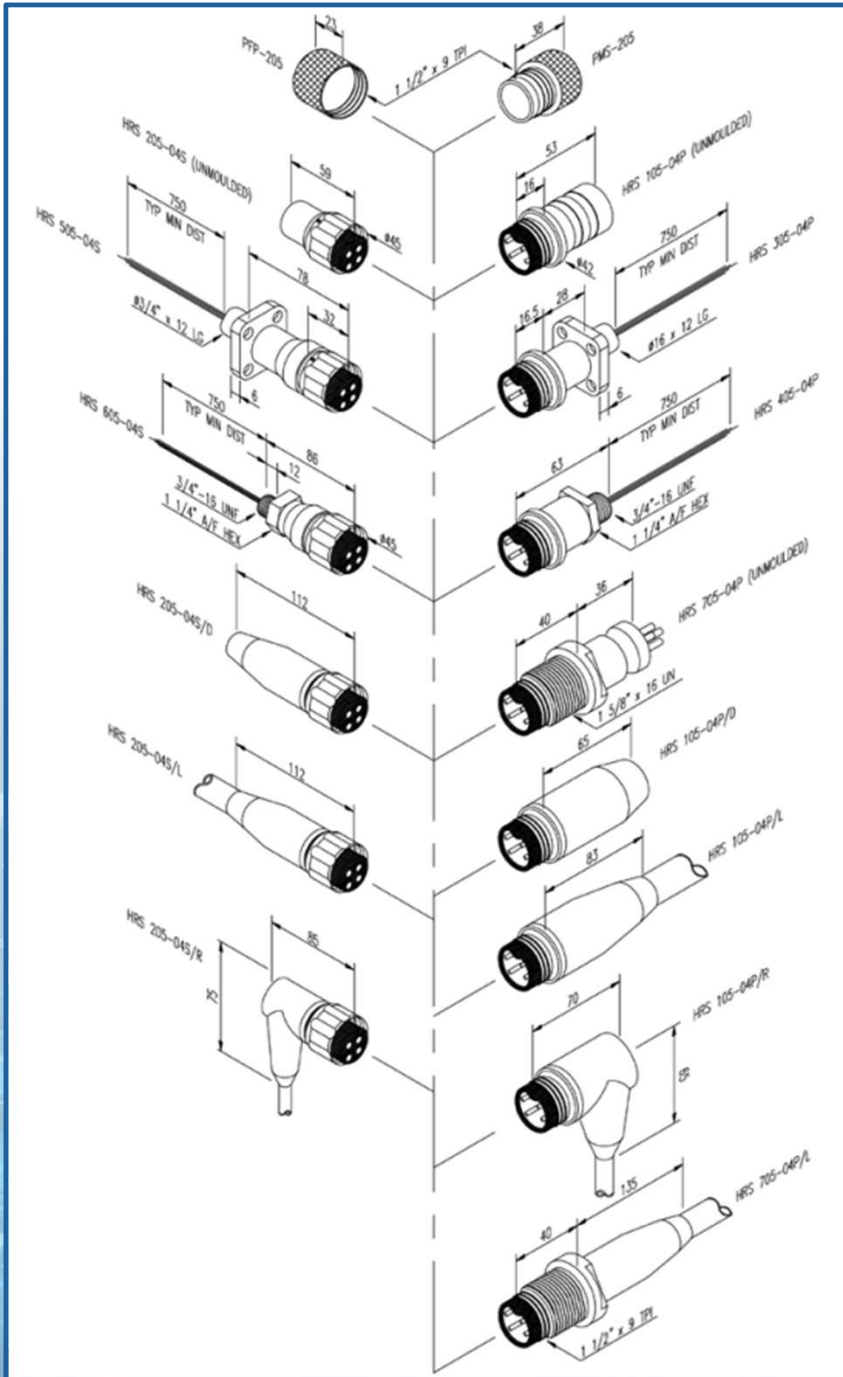
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* Custom Product Design Available

Shell Size 5 Mechanical Details & Mounting Configurations



* Custom Product Design Available

Specification

Shell Size 5

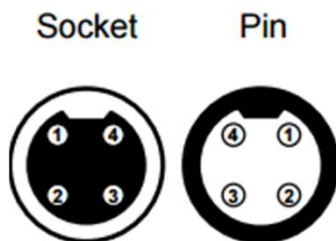
4 CONTACTS

Electrical & Environmental

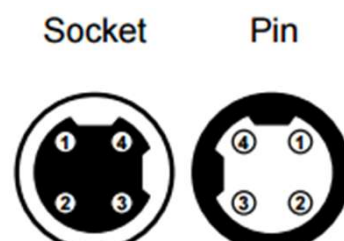
- Pin Current Rating: 16 AMPS
- Pin Voltage Rating: 2,000 V rms
- Contact to Contact IR: >1,000 MOhms @ 1,000 V dc
- Contact to Body IR: >1,000 MOhms @ 1,000 V dc
- Mated Depth Rating: 2,440 MSW
- Temperature Rating: -20 °C to +60 °C
- Conductor Tail Size: 16 AWG
- Solder Bucket Size: 3.0 mm dia

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70



Ref: HRS 05-04



Ref: HRS 05-04 DK

* Custom Product Design Available

Specification

Shell Size 5

6 CONTACTS

Electrical & 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 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70

8 CONTACTS

Electrical & Environmental

- Pin Current Rating: 6 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 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70

Socket

Pin



Ref: HRS 05-06

Socket

Pin



Ref: HRS 05-08

* Custom Product Design Available

Specification

Shell Size 5

12 CONTACTS

Electrical & Environmental

- Pin Current Rating: 5 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 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 2.5 mm dia

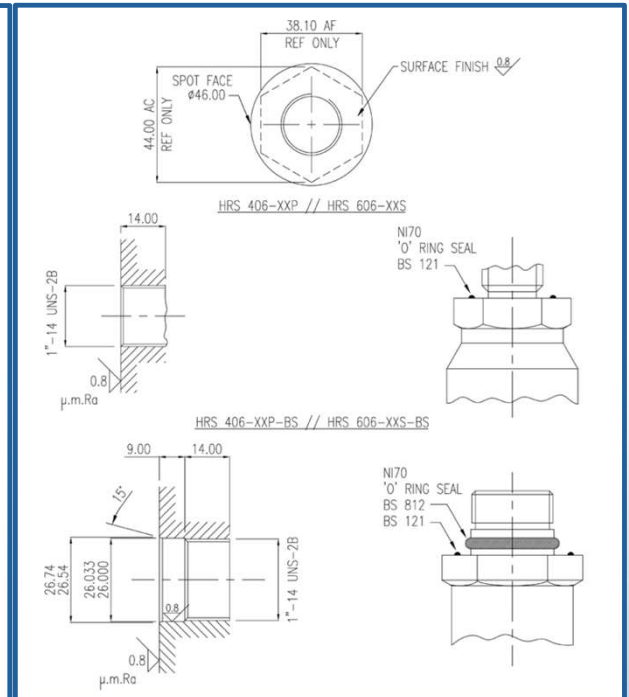
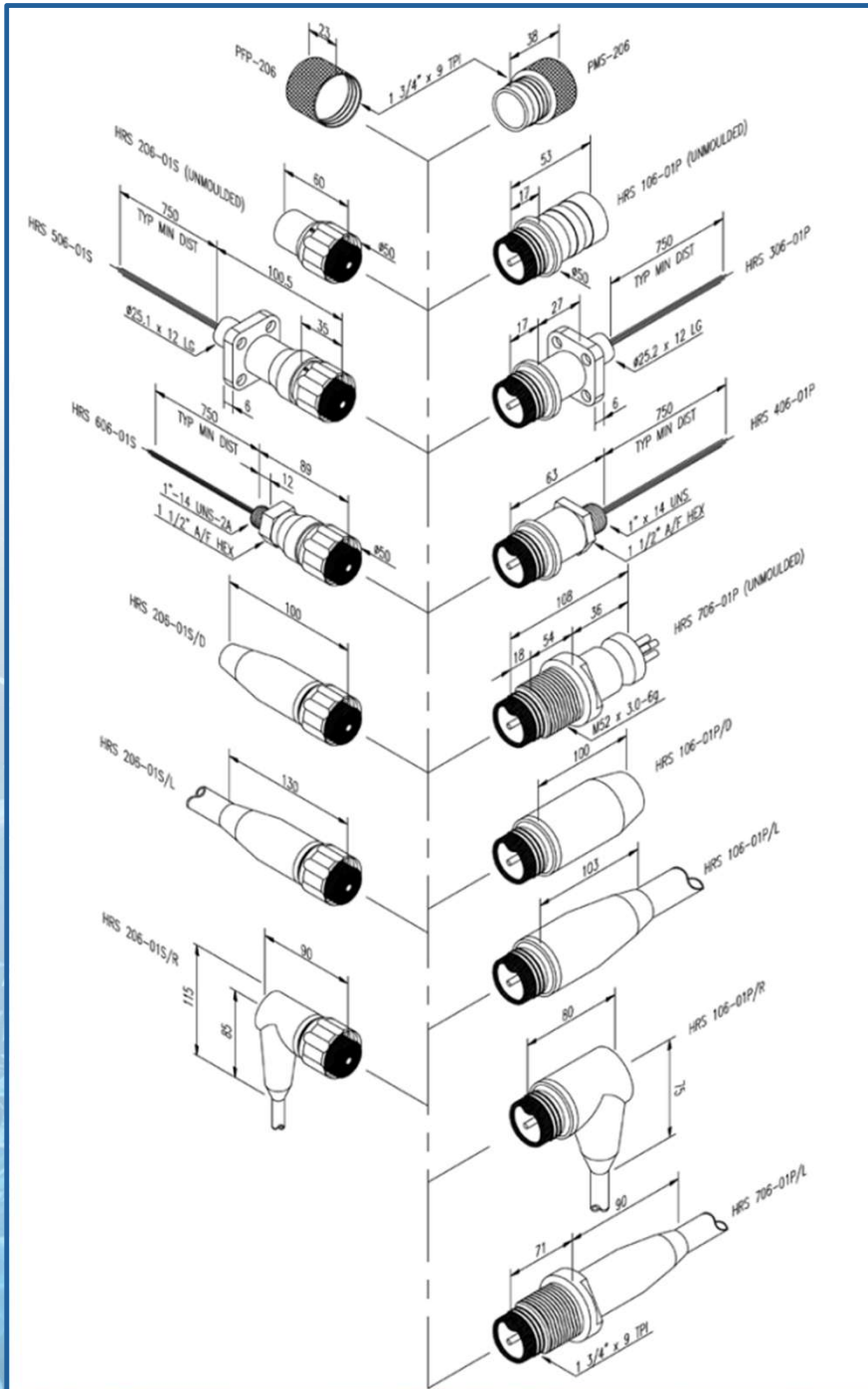
Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70



* Custom Product Design Available

Shell Size 6 Mechanical Details & Mounting Configurations



* Custom Product Design Available

Specification

Shell Size 6

1 CONTACT

Electrical & Environmental

- Pin Current Rating: 33 AMPS (>33 Amps possible)
- Pin Voltage Rating: 6,000 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 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 6.0 sq. mm
- Solder Bucket Size: 5.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Polyrad X 0.75 m
- O – Rings: NI70

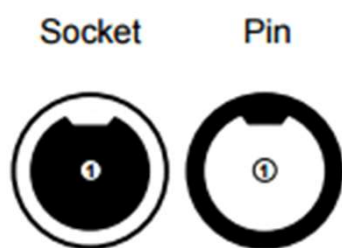
4 CONTACTS

Electrical & Environmental

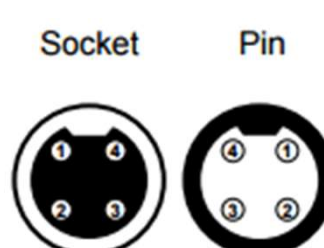
- Pin Current Rating: 16 AMPS
- Pin Voltage Rating: 2,000 V rms
- Contact to Contact IR: >1,000 MOhms @ 1,000 V dc
- Contact to Body IR: >1,000 MOhms @ 1,000 V dc
- Mated Depth Rating: 2,440 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 2.5 sq. mm
- Solder Bucket Size: 3.0 mm dia

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Radox 125, 0.75 m
- O – Rings: NI70



Ref: HRS 06-01



Ref: HRS 06-04

* Custom Product Design Available

Specification

Shell Size 6

10 CONTACTS

Electrical & Environmental

- Pin Current Rating: 5 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 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70

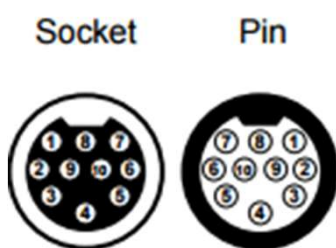
12 CONTACTS

Electrical & Environmental

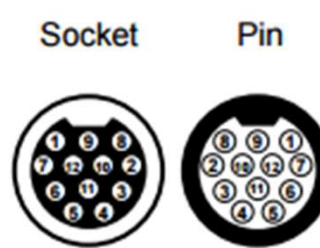
- Pin Current Rating: 5 AMPS
- Pin Voltage Rating: 2,000 V rms
- Contact to Contact IR: >1,000 MOhms @ 1,000 V dc
- Contact to Body IR: >1,000 MOhms @ 1,000 V dc
- Mated Depth Rating: 2,440 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70



Ref: HRS 06-10



Ref: HRS 06-12

* Custom Product Design Available

Specification

Shell Size 6

14 CONTACTS

Electrical & Environmental

- Pin Current Rating: 5 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 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70



* Custom Product Design Available

Specification

Shell Size 8

1 CONTACT

Electrical & Environmental

- Pin Current Rating: 400 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 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: High Voltage Cable
- Conductor Crimp Size: 185 sq. mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: N/A
- O – Rings: NI70

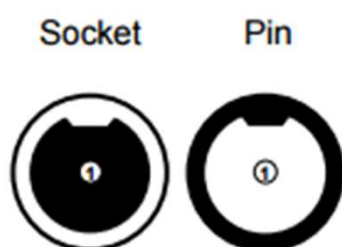
3 CONTACTS

Electrical & Environmental

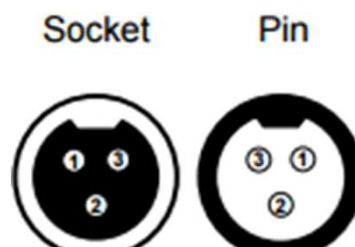
- Pin Current Rating: 95 AMPS
- Pin Voltage Rating: 3,300 V rms
- Contact to Contact IR: >1,000 MOhms @ 1,000 V dc
- Contact to Body IR: >1,000 MOhms @ 1,000 V dc
- Mated Depth Rating: 2,440 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 25 sq. mm
- Solder Bucket Size: 5.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Radox 125
- O – Rings: NI70



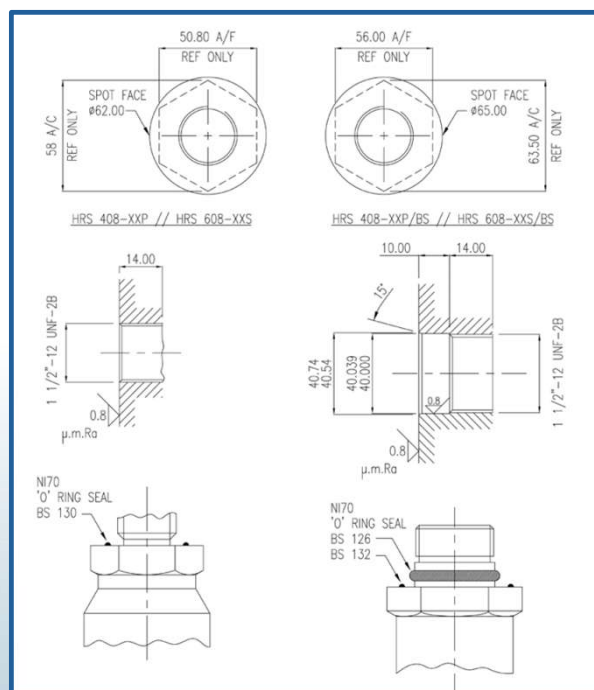
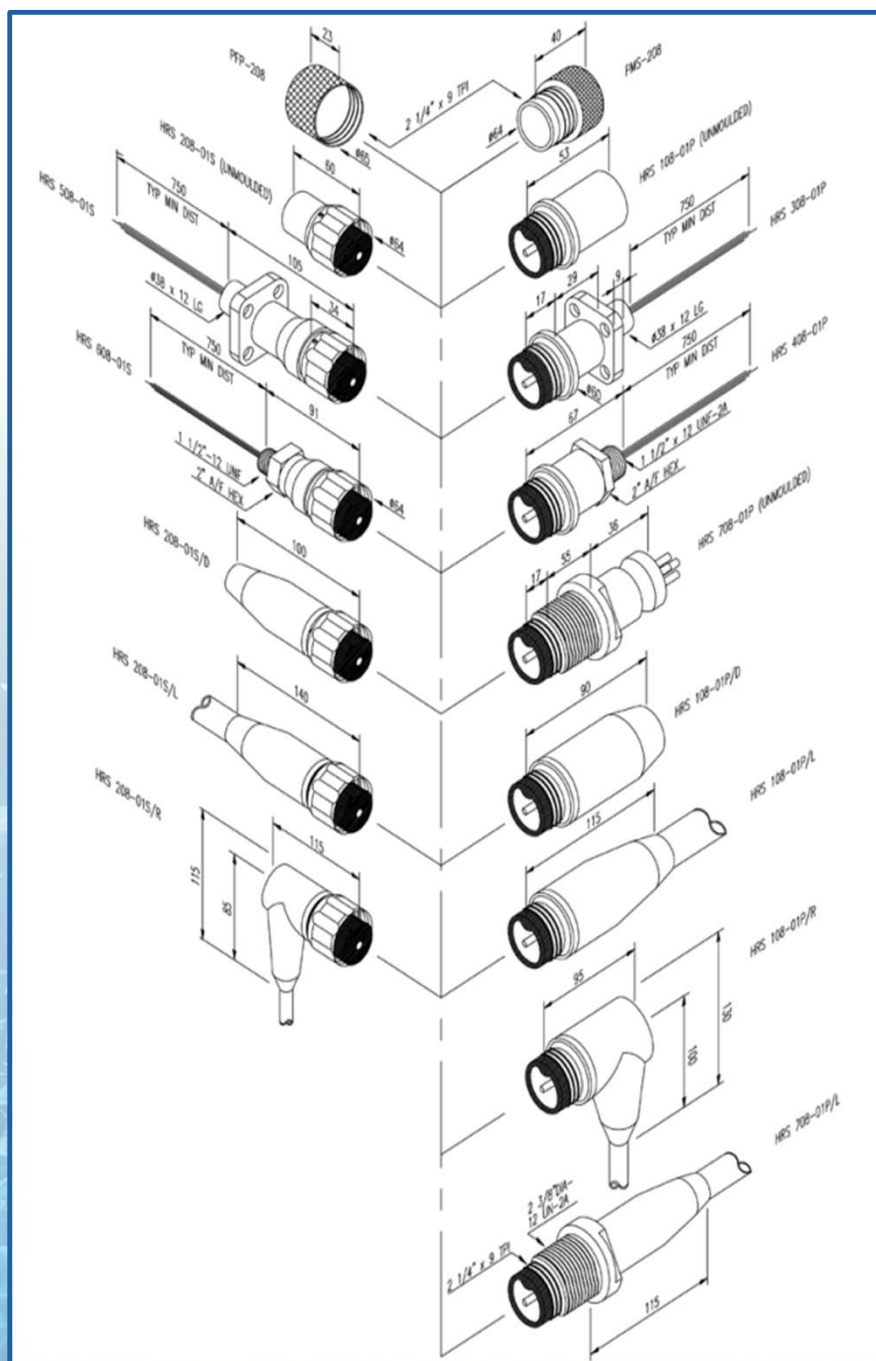
Ref: HRS 08-01



Ref: HRS 08-03

* Custom Product Design Available

Mechanical Details & Mounting Configurations



www.hydrogroup-uk.com / Mail to: sales@hydrogroup-uk.com

Specification

Shell Size 8

4 CONTACTS

Electrical & Environmental

- Pin Current Rating: 80 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 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 25 sq. mm
- Solder Bucket Size: 8.0 mm dia

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Polyrad X 0.75 m
- O – Rings: NI70

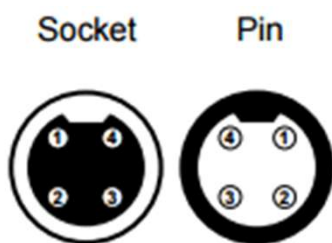
12 CONTACTS

Electrical & Environmental

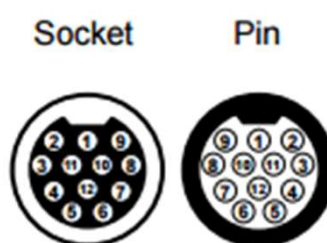
- Pin Current Rating: 12 AMPS
- Pin Voltage Rating: 2,000 V rms
- Contact to Contact IR: >1,000 MOhms @ 1,000 V dc
- Contact to Body IR: >1,000 MOhms @ 1,000 V dc
- Mated Depth Rating: 2,440 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 12 AWG
- Solder Bucket Size: 3.0 mm dia

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70



Ref: HRS 08-04



Ref: HRS 08-12

* Custom Product Design Available

Specification

Shell Size 8

24 CONTACTS

Electrical & Environmental

- Pin Current Rating: 5 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 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70

29 CONTACTS

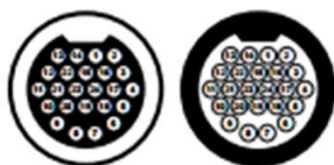
Electrical & Environmental

- Pin Current Rating: 4 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 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

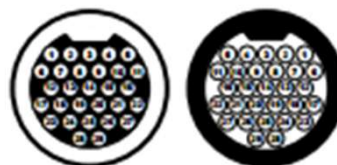
- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70

Socket Pin



Ref: HRS 08-24

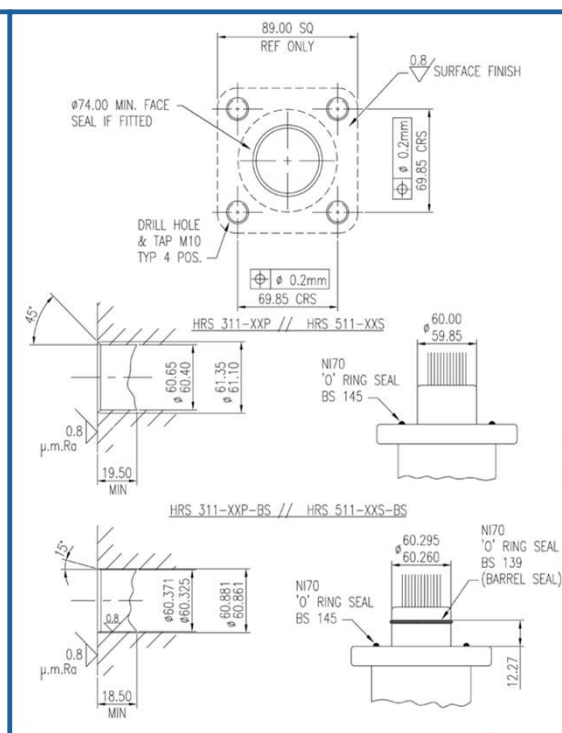
Socket Pin



Ref: HRS 08-29

* Custom Product Design Available

Mechanical Details & Mounting Configurations



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Specification

Shell Size 11

1 CONTACT

Electrical & Environmental

- Pin Current Rating: 750 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 MSW
- Temperature Rating: -20 °C to +60 °C
- Conductor Tail Size: Details on Application
- Solder Bucket Size: 27.0 mm dia

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: EPR, CSP, PU BS6195 X 0.75m
- O – Rings: NI70

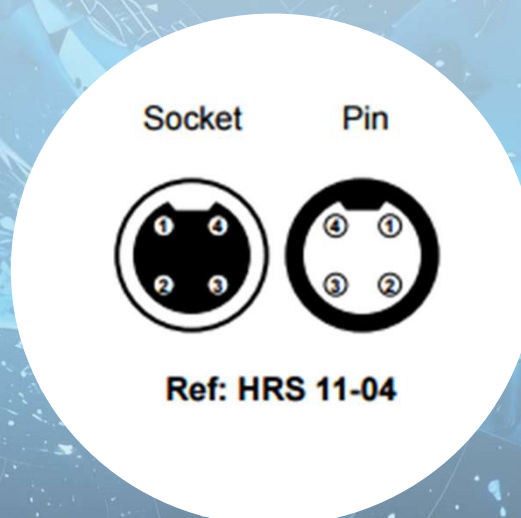
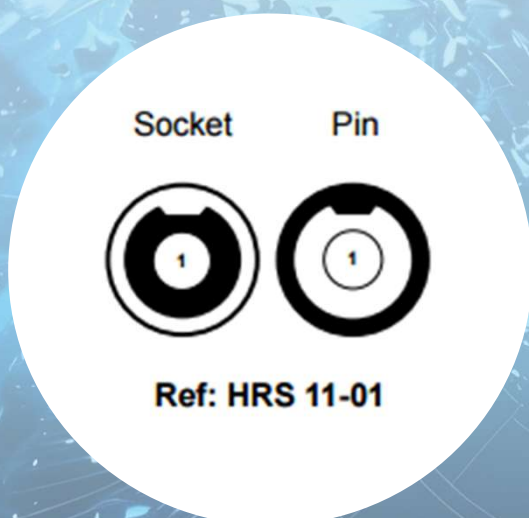
4 CONTACTS

Electrical & Environmental

- Pin Current Rating: 150 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 MSW
- Temperature Rating: -20 °C to +60 °C
- Conductor Tail Size: 35 sq. mm
- Solder Bucket Size: 5.75 mm dia

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Radox 125, 0.75 m
- O – Rings: NI70



* Custom Product Design Available

Specification

Shell Size 11

37 CONTACTS

Electrical & Environmental

- Pin Current Rating: 4 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 MSW
- Temperature Rating: -20 °C to +60 °C
- Conductor Tail Size: 18 AWG
- Conductor Crimp Size: 2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 x 0.75 m
- O – Rings: NI70

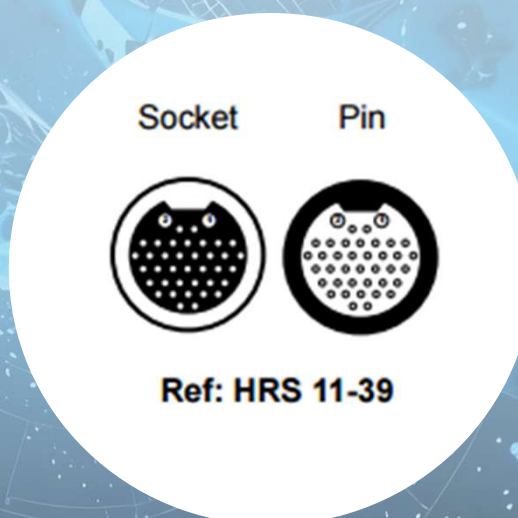
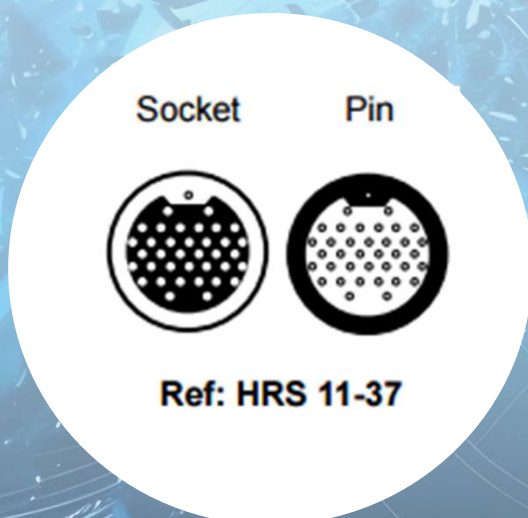
39 CONTACTS

Electrical & Environmental

- Pin Current Rating: 2W 80 Amps, 4W15 Amps, 33W 0.5 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 MSW
- Temperature Rating: -20 °C to +60 °C
- Conductor Tail Size: 2x25 sq.mm, 4x14 AWG, 33x18 AWG
- Solder Bucket Size: 2x8.0 mm dia, 37x2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: 2xPolyrad x 0.5m, 37xspec 44x0.5m
- O – Rings: NI70



* Custom Product Design Available

Specification

Shell Size 11

43 CONTACTS

Electrical & Environmental

- Pin Current Rating: 4 way, 25 way, 39 way 2 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 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 4 x 10 AWG, 39 x 18 AWG
- Solder Bucket Size: 4x3.0 mm dia, 39x2.0 mm dia

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 x 0.75 m
- O – Rings: NI70

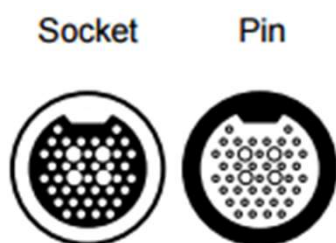
54 CONTACTS

Electrical & Environmental

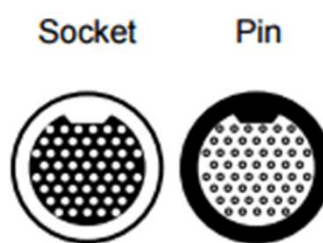
- Pin Current Rating: 2 AMPS
- Pin Voltage Rating: 2,000 V rms
- Contact to Contact IR: >1,000 MOhms @ 1,000 V dc
- Contact to Body IR: >1,000 MOhms @ 1,000 V dc
- Mated Depth Rating: 2,440 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 x 0.75 m
- O – Rings: NI70



Ref: HRS 11-43



Ref: HRS 11-54

* Custom Product Design Available

Specification

Shell Size 11

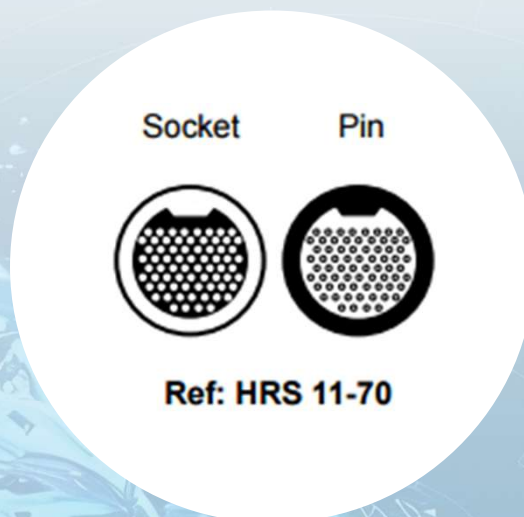
70 CONTACTS

Electrical & Environmental

- Pin Current Rating: 2 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 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70



* Custom Product Design Available

HXD (EExd and EExde Explosion Proof) Connector



Features

- Underwater Mateable
- Robust Design
- Neoprene moulded connector insert as standard with other materials available on request (subject to approval)
- Depth rated to 2,440 MSW (subject to cable gland and moulding option)
- Fully open face pressure sealed
- Metal Shell Construction
- Available in 5 shell sizes
- Bulkhead Mount and Panel Mount Designs available as standard
- Panel Mount and Bulkhead mount receptacles come with either solder buckets in the HXD3 or 0.75 metre conductor tails in the HXDe3/4 versions. Longer conductor tails available on request
- Mounting O – Ring face seals
- Pin Densities from 1 to 70 ways
- Voltage ratings up to 3,300 Volts RMS
- Current ratings up to 750 Amps
- Available in Aluminium Silicon Bronze, Brass and 316 Stainless Steel
- Acetal dust caps supplied with all connectors (lanyards available on request)
- Optional EXD Rated protective caps available on request
- Optional Earth Bonding
- Termination options include non armoured cables diameters from 3.5mm to 32.2mm and armoured cables from 8.4mm to 39.9mm using standard CMP glands
- Optional approved Polyurethane overmoulding for full IP68 water submersion

HXD (EExd and EExde Explosion Proof) Connector

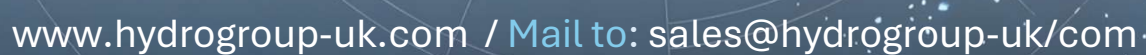
Benefits

- Make and Break connections topside (zone 1) then deploy subsea (2,440 MSW) with same connector
- Easy to use
- Fast Delivery lead times
- Wide variety of pin configurations allows cost effective system design
- Wide variety of metal options allows for best corrosion resistant design

Approvals

- BS 5501: Part 1: 1977 (EN 50 014 amendments A1 to A5)
- BS 5501: Part 5: 1977 (EN 50 018 amendments A1 to A3)
- CENELEC Certification Code Eexd IIB T6
- BS EN 60529: 1992 Ingress Protection
- US Coastguard approval

* Custom Product Design Available



Specification

Shell Size 5

4 CONTACTS

Electrical & Environmental

- Pin Current Rating: 15 Amps
- Pin Voltage Rating: 2,000 V rms
- Gland Size: M16, M20(S)
- 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
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 4 x 3.0 mm dia

Standard Material Specification

- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70

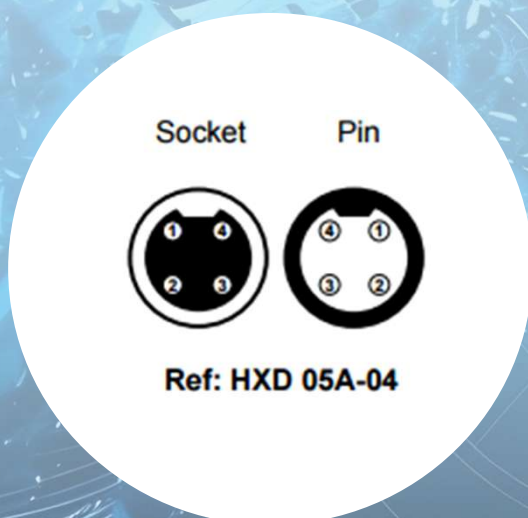
6 CONTACTS

Electrical & Environmental

- Pin Current Rating: 8 Amps
- Pin Voltage Rating: 1,000 V rms
- Gland Size: M16, M20(S)
- 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
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 6 x 2.5 mm dia

Standard Material Specification

- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70



* Custom Product Design Available

Specification

Shell Size 5

8 CONTACTS

Electrical & Environmental

- Pin Current Rating: 6 Amps
- Pin Voltage Rating: 1,000 V rms
- Gland Size: M16, M20(S)
- 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
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 8 x 2.5 mm dia

Standard Material Specification

- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70

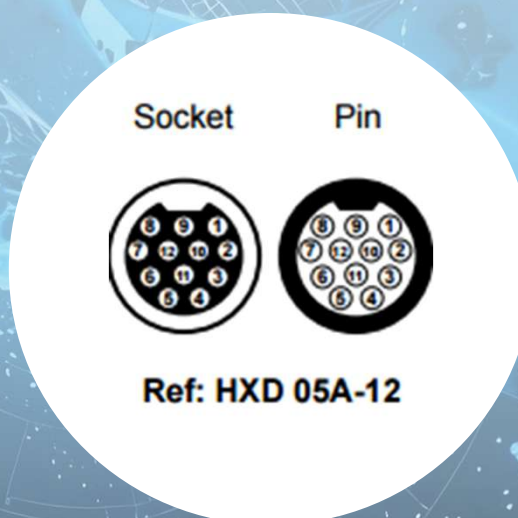
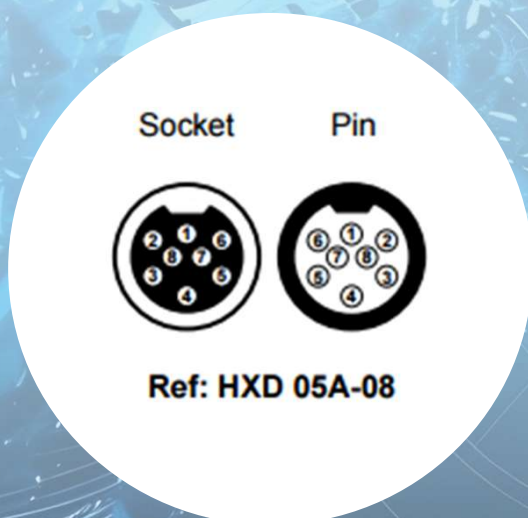
12 CONTACTS

Electrical & Environmental

- Pin Current Rating: 5 Amps
- Pin Voltage Rating: 1,000 V rms
- Gland Size: M16, M20(S)
- 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
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 12 x 2.5 mm dia

Standard Material Specification

- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70



* Custom Product Design Available

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Specification

Shell Size 6

1 CONTACT

Electrical & Environmental

- Pin Current Rating: 40 Amps
- Pin Voltage Rating: 6,000 V rms
- Gland Size: M16, M20(S)
- 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
- Conductor Tail Size: 6.0 sq mm
- Solder Bucket Size: 1 x 5.5 mm dia

Standard Material Specification

- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70

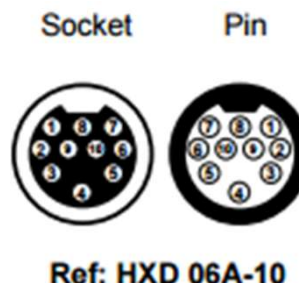
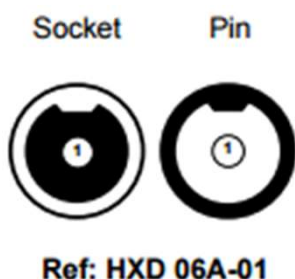
10 CONTACTS

Electrical & Environmental

- Pin Current Rating: 5 Amps
- Pin Voltage Rating: 1,000 V rms
- Gland Size: M16, M20(S)
- 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
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 10 x 2.5 mm dia

Standard Material Specification

- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70



* Custom Product Design Available

Specification

Shell Size 6

12 CONTACT

Electrical & Environmental

- Pin Current Rating: 5 Amps
- Pin Voltage Rating: 1,000 V rms
- Gland Size: M16, M20
- 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
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 12 x 2.5 mm dia

Standard Material Specification

- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70

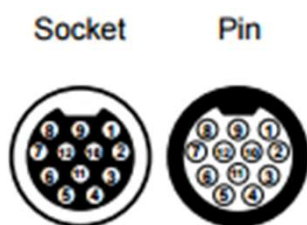
14 CONTACTS

Electrical & Environmental

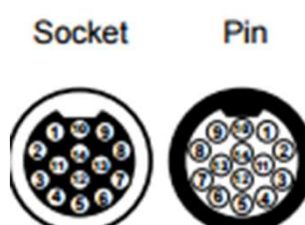
- Pin Current Rating: 5 Amps
- Pin Voltage Rating: 1,000 V rms
- Gland Size: M16, M20
- Contact to Contact IR: >1,000 MOhms @ 1,000 V dc
- Contact to Body IR: >1,000 MOhms @ 1,000 V dc
- Mated Depth Rating: 2,440 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 14 x 2.5 mm dia

Standard Material Specification

- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70



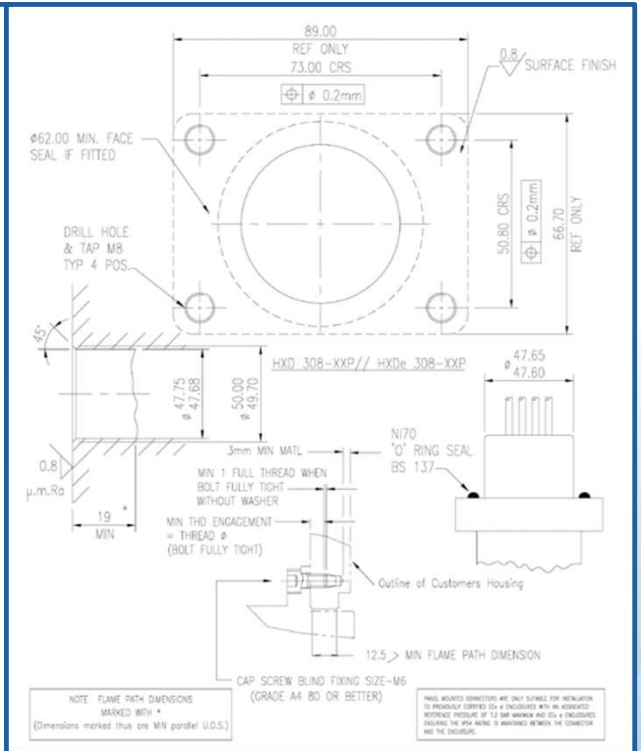
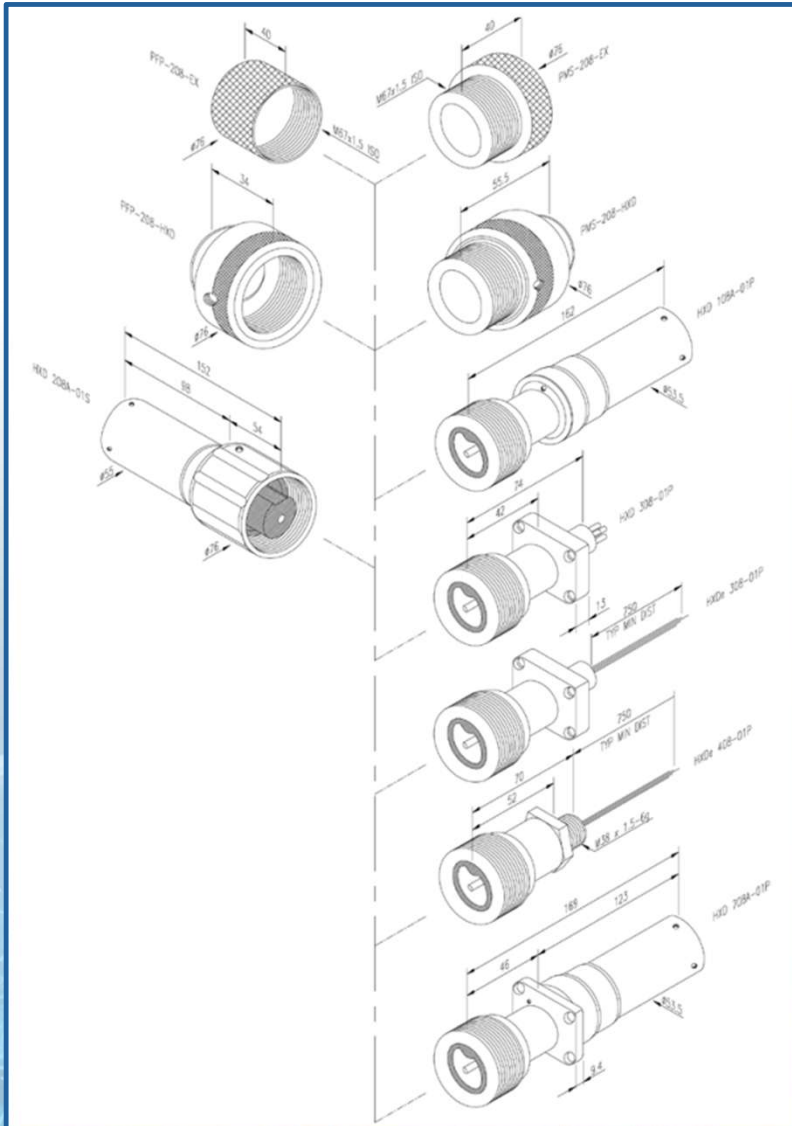
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Ref: HXD 06A-14

* Custom Product Design Available

Shell Size 8 Mechanical Details & Mounting Configurations



* Custom Product Design Available

Specification

Shell Size 8

1 CONTACT

Electrical & Environmental

- Pin Current Rating: 40 Amps
- Pin Voltage Rating: 2,000 V rms
- Gland Size: M16, M20, M25
- 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
- Conductor Tail Size: 185 sq mm
- Solder Bucket Size: High Voltage Cable

Standard Material Specification

- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70

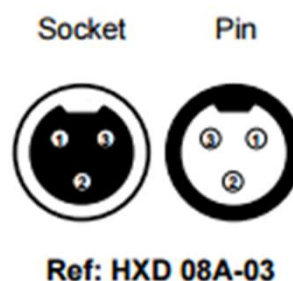
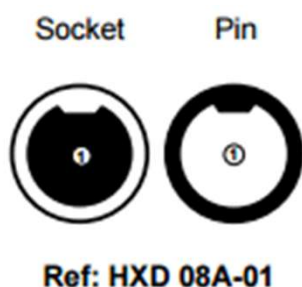
3 CONTACTS

Electrical & Environmental

- Pin Current Rating: 50 Amps
- Pin Voltage Rating: 2,000 V rms
- Gland Size: M16, M20, M25
- 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
- Conductor Tail Size: 25 sq mm
- Solder Bucket Size: 3 x 5.5 mm dia

Standard Material Specification

- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70



* Custom Product Design Available

Specification

Shell Size 8

4 CONTACTS

Electrical & Environmental

- Pin Current Rating: 36 Amps
- Pin Voltage Rating: 2,000 V rms
- Gland Size: M16, M20, M25
- 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(S)
- Temperature Rating: -20 °C to +60 °C
- Conductor Tail Size: 25 sq mm
- Solder Bucket Size: 4 x 8.0 mm dia

Standard Material Specification

- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70

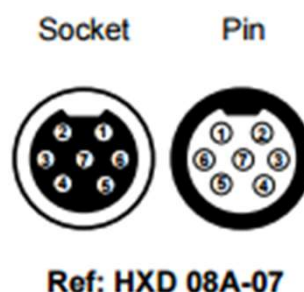
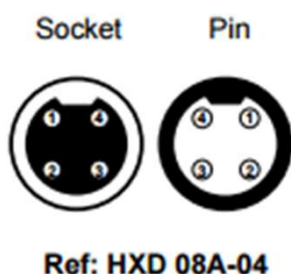
7 CONTACTS

Electrical & Environmental

- Pin Current Rating: 2 x 30 Amps, 5 x 14 Amps
- Pin Voltage Rating: 1,000 V rms
- Gland Size: M16, M20, M25
- 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(S)
- Temperature Rating: -20 °C to +60 °C
- Conductor Tail Size: 2 X 10 sq mm, 5 X 14 AWG
- Solder Bucket Size: 2 x 5.5 mm dia, 5 x 2.5 mm dia

Standard Material Specification

- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70



* Custom Product Design Available

Specification

Shell Size 8

12 CONTACTS

Electrical & Environmental

- Pin Current Rating: 12 Amps
- Pin Voltage Rating: 1,000 V rms
- Gland Size: M16, M20, M25
- 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
- Conductor Tail Size: 12 AWG
- Solder Bucket Size: 12 x 3.0 mm dia

Standard Material Specification

- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70

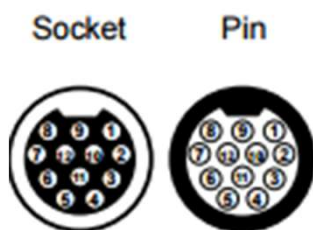
24 CONTACTS

Electrical & Environmental

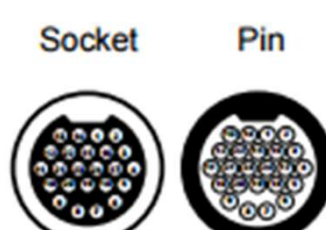
- Pin Current Rating: 5 Amps
- Pin Voltage Rating: 1,000 V rms
- Gland Size: M16, M20, M25
- Contact to Contact IR: >1,000 MOhms @ 1,000 V dc
- Contact to Body IR: >1,000 MOhms @ 1,000 V dc
- Mated Depth Rating: 2,440 MSW
- Temperature Rating: -20 °C to +60 °C
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 24 x 2.5 mm dia

Standard Material Specification

- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70



Ref: HXD 08A-12



Ref: HXD 08A-24

* Custom Product Design Available

Specification

Shell Size 8

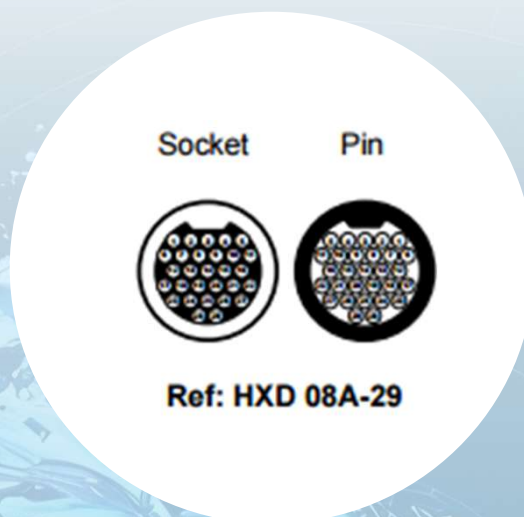
29 CONTACTS

Electrical & Environmental

- Pin Current Rating: 4 Amps
- Pin Voltage Rating: 1,000 V rms
- Gland Size: M16, M20, M25
- 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
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 29 x 2.5 mm dia

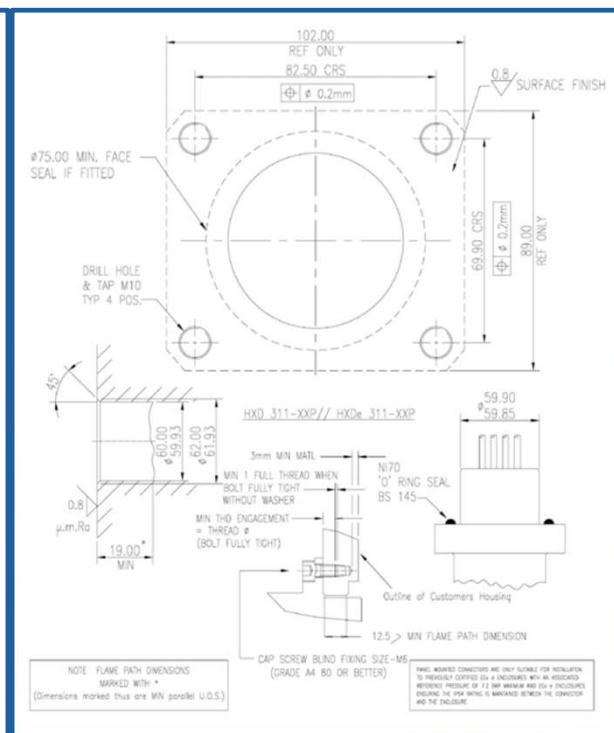
Standard Material Specification

- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70



* Custom Product Design Available

Mechanical Details & Mounting Configurations



www.hydrogroup-uk.com / Mail to: sales@hydrogroup-uk.com

Specification

Shell Size 11

1 CONTACT

Electrical & Environmental

- Pin Current Rating: 750 Amps
- Pin Voltage Rating: 2,000 V rms
- Gland Size: M16, M20, M25, M32, M40
- 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
- Conductor Tail Size: 300 sq mm
- Solder Bucket Size: 1 x 27 mm dia

Standard Material Specification

- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70

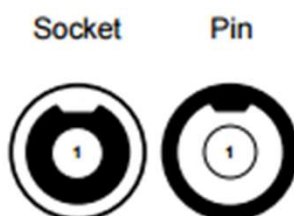
4 CONTACTS

Electrical & Environmental

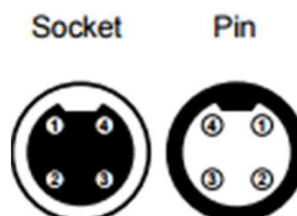
- Pin Current Rating: 150 Amps
- Pin Voltage Rating: 2,000 V rms
- Gland Size: M16, M20, M25, M32, M40
- Contact to Contact IR: >1,000 MOhms @ 1,000 V dc
- Contact to Body IR: >1,000 MOhms @ 1,000 V dc
- Mated Depth Rating: 2,440 MSW
- Temperature Rating: -20 °C to +60 °C
- Conductor Tail Size: 35 sq mm
- Solder Bucket Size: 4 x 5.75 mm dia

Standard Material Specification

- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70



Ref: HXD 11A-01



Ref: HXD 11A-04

* Custom Product Design Available

Specification

Shell Size 11

37 CONTACTS

Electrical & Environmental

- Pin Current Rating: 4 Amps
- Pin Voltage Rating: 1,000 V rms
- Gland Size: M16, M20, M25, M32, M40
- 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
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 37 x 2.5 mm dia

Standard Material Specification

- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70

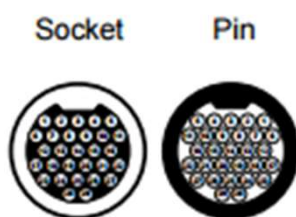
39 CONTACTS

Electrical & Environmental

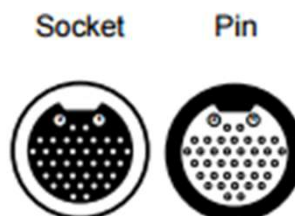
- Pin Current Rating: 2x25 AMPS, 4X15 Amps, 33x18 Amps
- Pin Voltage Rating: 1,000 V rms
- Gland Size: M16, M20, M25, M32, M40
- Contact to Contact IR: >1,000 MOhms @ 1,000 V dc
- Contact to Body IR: >1,000 MOhms @ 1,000 V dc
- Mated Depth Rating: 2,440 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 2x25 sqmm, 4X14 AWG, 33x18 AWG
- Solder Bucket Size: 2x8.0mm dia, 37x2.5 mm dia

Standard Material Specification

- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70



Ref: HXD 11A-37



Ref: HXD 11A-39

* Custom Product Design Available

Specification

Shell Size 11

43 CONTACTS

Electrical & Environmental

- Pin Current Rating: 4x25 AMPS, 39x2 Amps
- Pin Voltage Rating: 1,000 V rms
- Gland Size: M16, M20, M25, M32, M40
- 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
- Conductor Tail Size: 4X10 AWG, 39x18 AWG
- Solder Bucket Size: 4x3.0mm dia, 39x2.0 mm dia

Standard Material Specification

- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70

54 CONTACTS

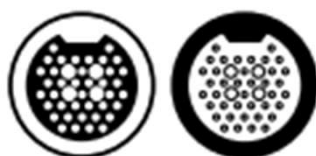
Electrical & Environmental

- Pin Current Rating: 3 Amps
- Pin Voltage Rating: 1,000 V rms
- Gland Size: M16, M20, M25, M32, M40
- 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
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 54 x 2.5 mm dia

Standard Material Specification

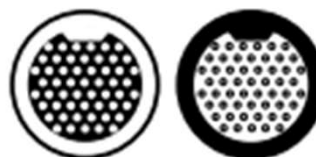
- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70

Socket Pin



Ref: HXD 11A-43

Socket Pin



Ref: HXD 11A-54

* Custom Product Design Available

Specification

Shell Size 11

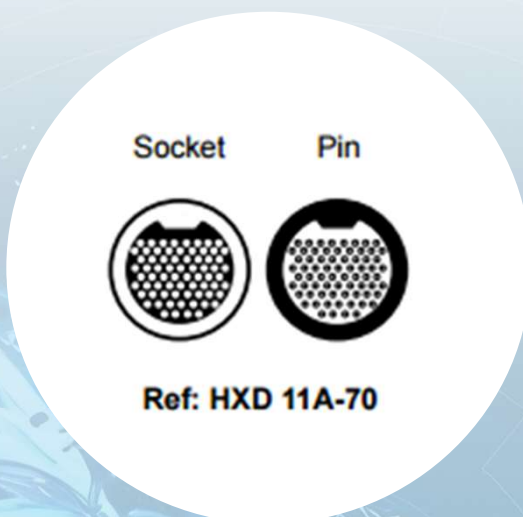
70 CONTACTS

Electrical & Environmental

- Pin Current Rating: 2 Amps
- Pin Voltage Rating: 1,000 V rms
- Gland Size: M16, M20, M25, M32, M40
- 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
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 70 x 2.5 mm dia

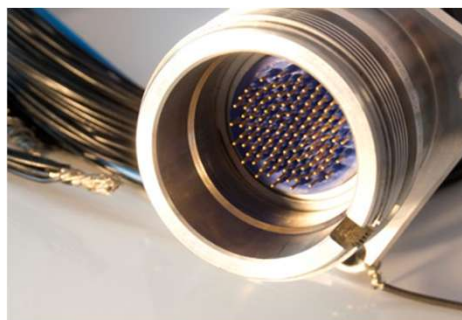
Standard Material Specification

- Body: Aluminium Silicon Bronze
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: Aluminium Silicon Bronze
- Gland: Brass
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44 X 0.75 m
- O – Rings: NI70



* Custom Product Design Available

HDM (Hydro Group Bond Deck Mate) Connector



Features

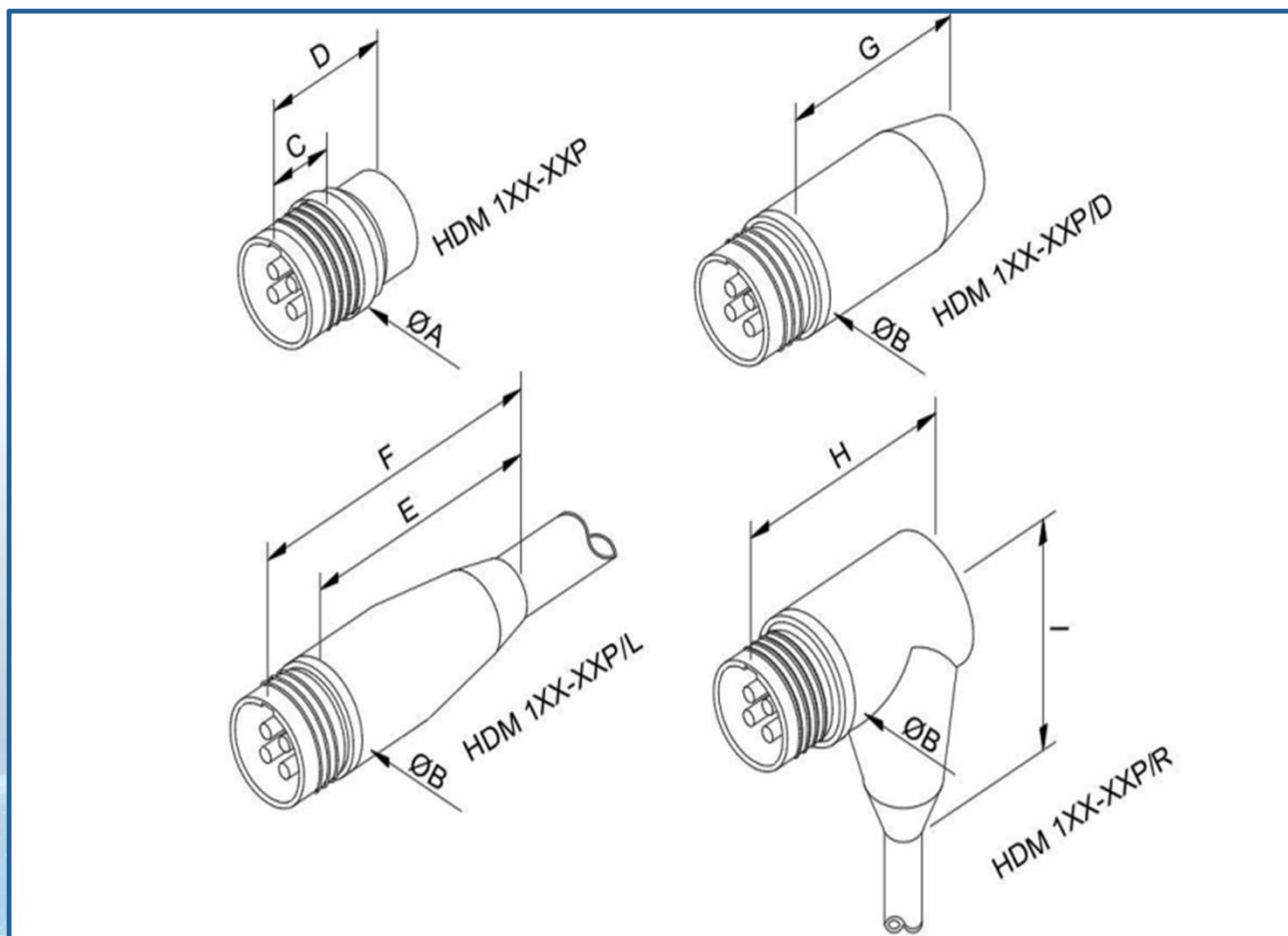
- Available in seven shell sizes (2 to 11)
- Depth-rated to 3450 MSW (up to 6900 MSW available on request)
- Voltage-rated up to 10,000 V DC RMS (higher on request)
- Current ratings up to 95 Amps (higher on request)
- Compact, durable, shock and vibration-proof design
- High pin densities of two to 110-ways
- Positive metal keyway to prevent misalignment
- Fully open-face pressure-sealed
- Bulkhead mount and panel mount designs as standard
- Standard and reverse-gender configurations
- Manufactured in 316 Stainless Steel; Titanium, Aluminium Silicon Bronze, Bronze etc. available
- One-metre conductor tails on all bulkheads as standard
- Long-life connector with simple O-Ring seals
- Moulding options include Polyurethane (PU) and Polyethylene (PE)

HDM VWW – XXY / ..

HDM Part Numbering Legend

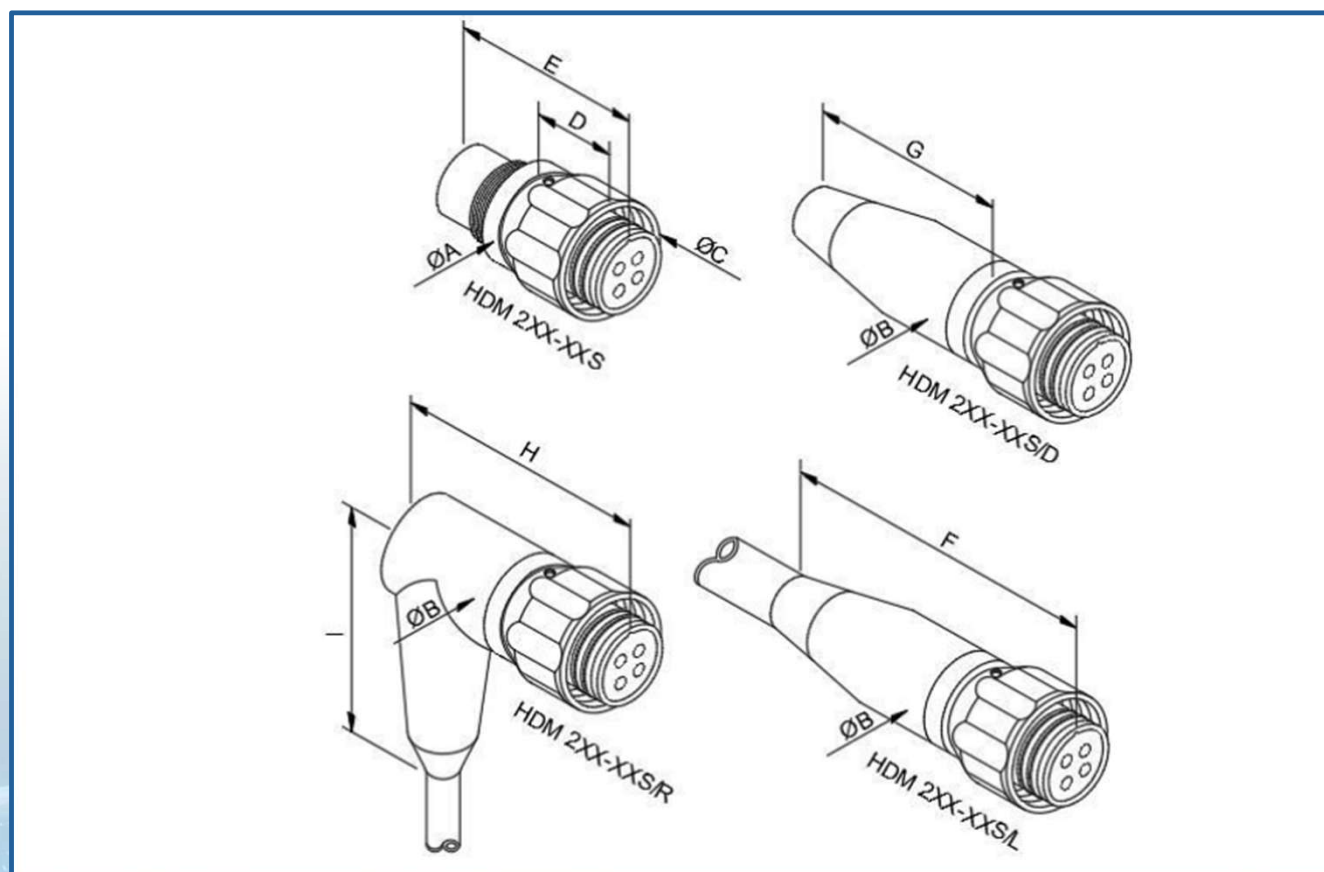
V	WW	XX	Y	..
HDM Connector Series (1-14)	HDM Connector Shell Size (02-11)	Number of electrical contacts (02-110)	P = Pins (Male) S = Sockets (Female)	<u>Connector moulding options:</u> L = In-line D = Dummy R = Right-angled BS = Barrel Sealed None = No over-moulding

Series 1: Male in-line connector



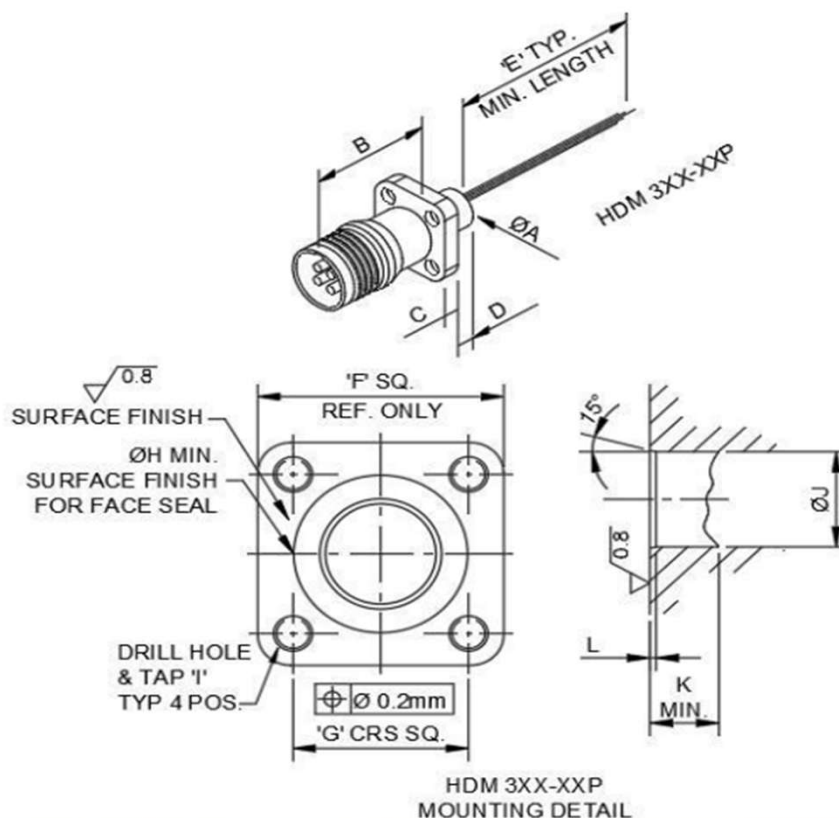
Shell/Dim.	ØA	ØB	C	D	E	F	G	H	I
HDM 102	20	20	11	33	XX*	XX*	XX*	XX*	XX*
HDM 103	23	22	13	41	60	85	XX*	XX*	XX*
HDM 104	32	30	24	52	100	120	95	70	60
HDM 105	40	38	25	53	83	110	65	87	52
HDM 106	46	45	25	55	90	130	90	90	90
HDM 108	60	55	25	70	120	150	120	100	100
HDM 111	90	90	25	95	145	180	XX*	160	90

Series 2: Female in-line connector



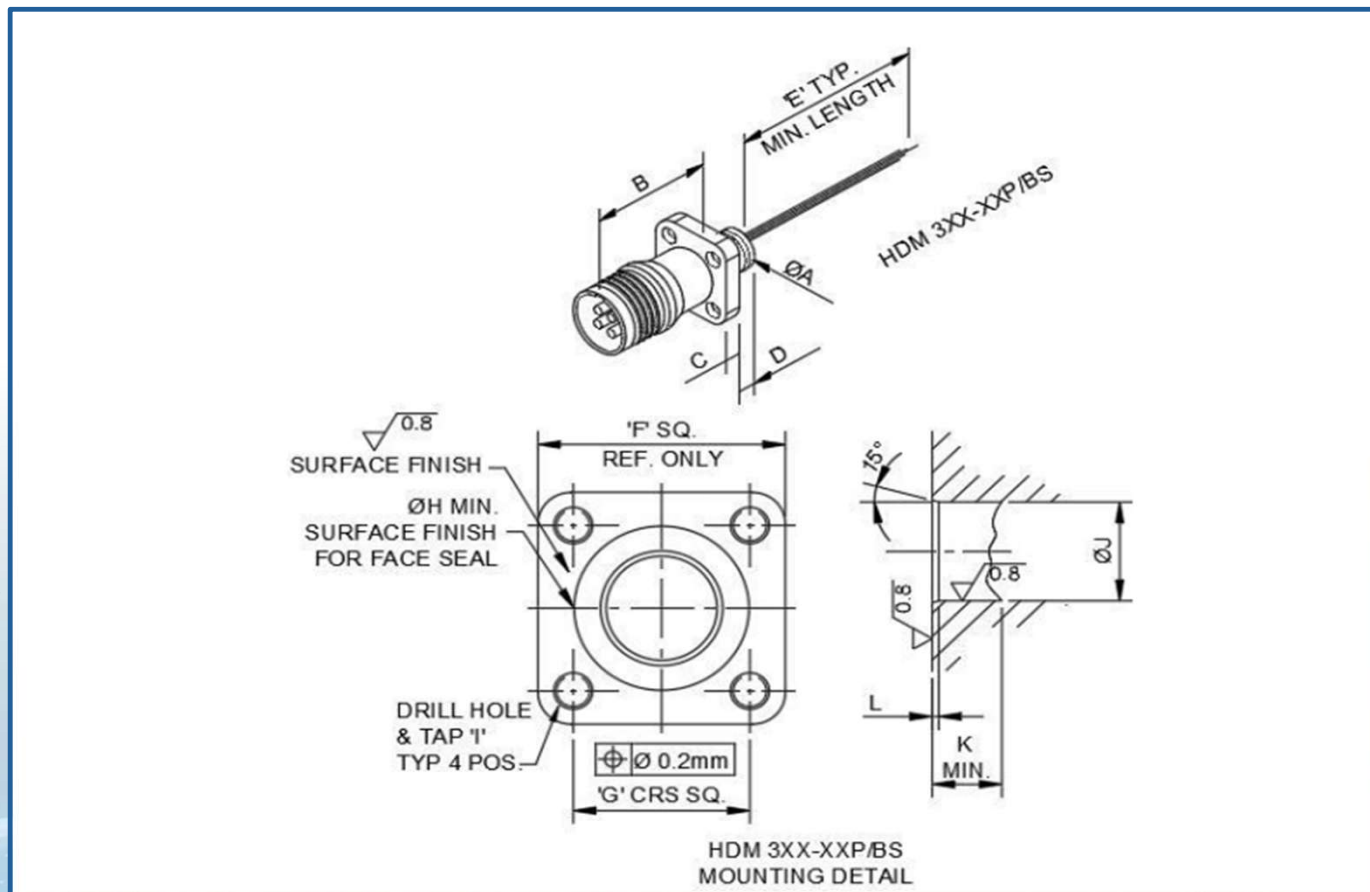
Shell/Dim.	$\varnothing A$	$\varnothing B$	$\varnothing C$	D	E	F	G	H	I
HDM 202	15	16	18	16	33	XX*	XX*	XX*	XX*
HDM 203	20	22	25	19	41	85	65	70	50
HDM 204	29	30	35	28	62	100	95	93	60
HDM 205	35	41	45	32	65	115	83	100	75
HDM 206	41	45	50	32	63	130	90	100	90
HDM 208	54	60	64	32	76	140	100	120	90
HDM 211	73	80	85	35	95	180	180	160	90

Series 3: Male Panel Mount Connector [Standard: No barrel sealing]



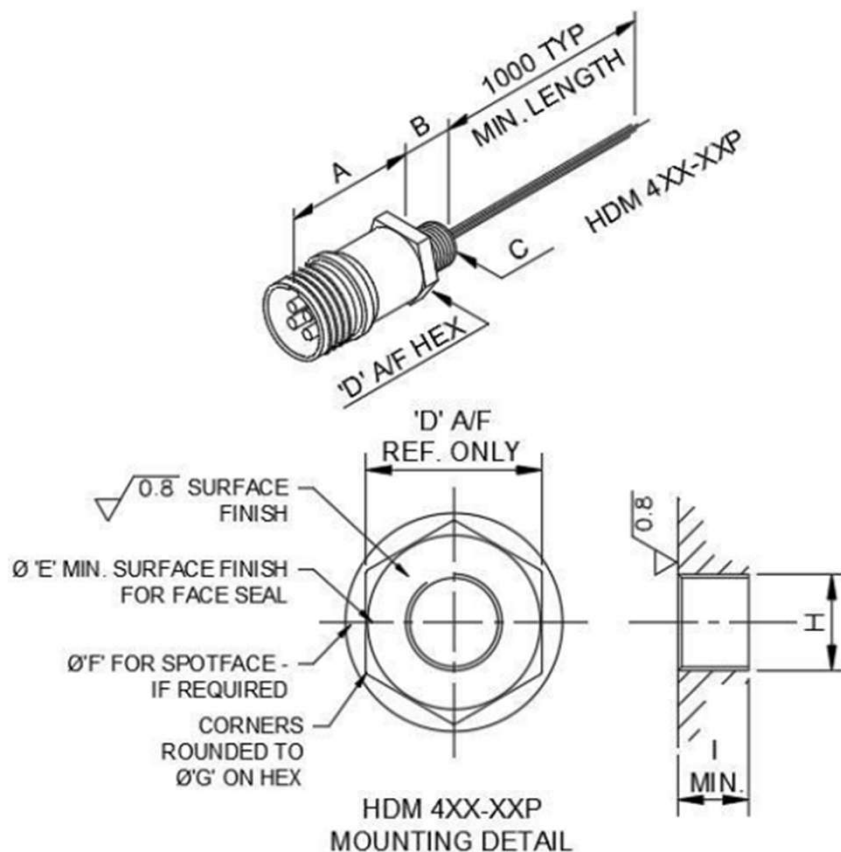
Shell/Dim.	ϕA	B	C	D	E	F	G	ϕH	I	ϕJ	K	L
HDM 302	16	13	6	16	1000	20	15	28	M2.5	16.027 16.000	17	2
HDM 303	13	33	4	10	1000	32	22	24	M4	12.843 12.816	10	1.3 1
HDM 304	16	46	6	12	1000	38	25	29	M5	15.627 15.600	13	1.3 1
HDM 305	19	48	6	12	1000	45	32	32	M6	19.033 19.000	13	1.3 1
HDM 306	25	48	6	12	1000	51	38	39	M6	25.453 25.420	13	1.3 1
HDM 308	38	54	10	16	1000	67	51	51	M8	38.139 38.100	17	1.3 1
HDM 311	60	63	14	18	1000	89	70	74	M10	60.371 60.325	19	1.3 1

Series 3: Male Panel Mount Connector [BS: With barrel sealing]



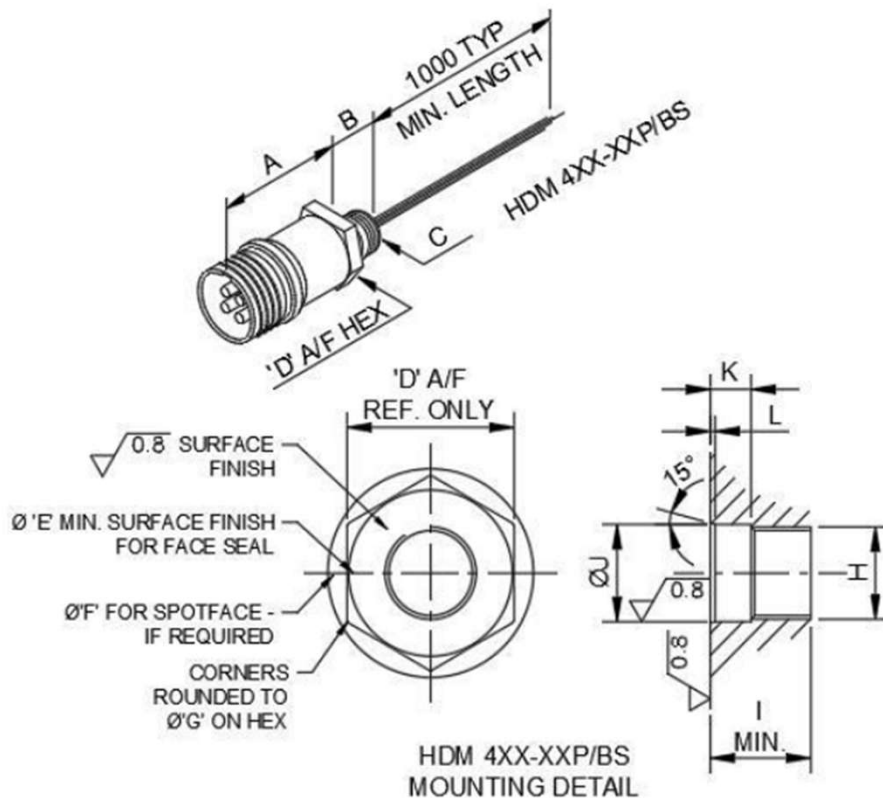
Shell/Dim.	øA	øB	C	D	E	F	G	H	I	J	K	L
HDM 302	16	13	6	22	1000	20	15	28	M2.5	16.027 16.000	28	2
HDM 303	13	33	4	10	1000	32	22	24	M4	12.823 12.796	10	1.3 1
HDM 304	16	46	6	12	1000	38	25	29	M5	15.627 15.600	13	1.3 1
HDM 305	19	48	6	12	1000	45	32	32	M6	19.033 19.000	13	1.3 1
HDM 306	25	48	6	12	1000	51	38	39	M6	25.453 25.420	13	1.3 1
HDM 308	38	54	10	16	1000	67	51	51	M8	38.139 38.100	17	1.3 1
HDM 311	60	63	14	18	1000	89	70	74	M10	60.371 60.325	19	1.3 1

Series 4: Male Bulkhead Connector [Standard: No barrel sealing]



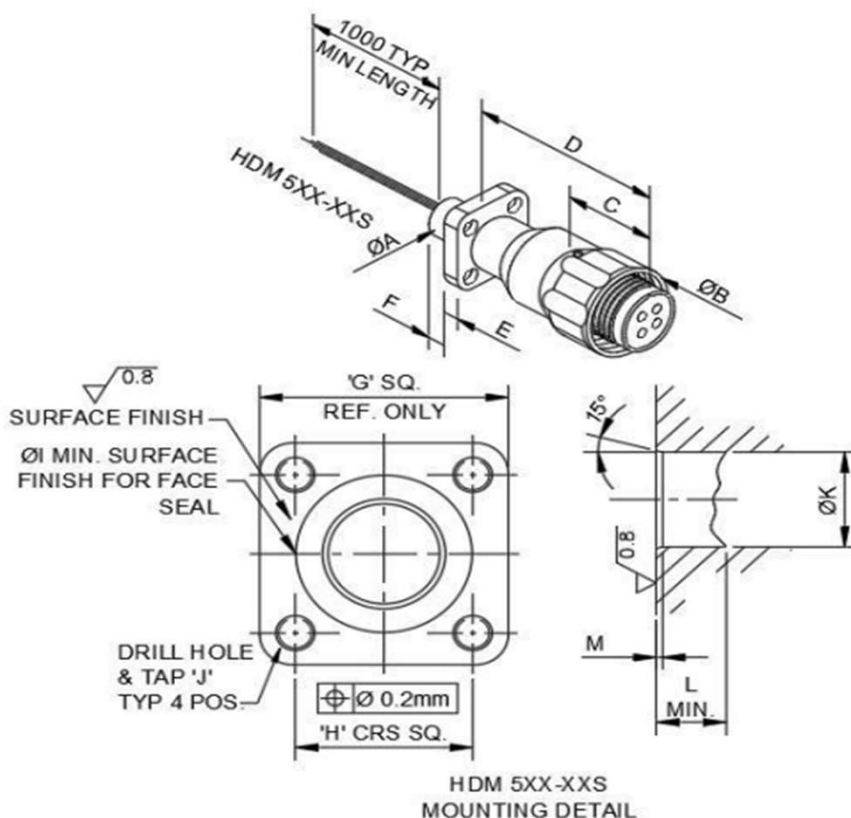
Shell/Dim.	A	B	C	D	øE	øF	øG	H	I
HDM 402	19	16	M16x1-6g	17	29	29	19	M16x1-6H	17
HDM 403	33	10	M14x1-6g	24	26	30	27	M14x1-6H	11
HDM 404	52	12	5/8"-18UNF-2A	28	29	34	32	5/8"-18UNF-2B	13
HDM 405	55	12	¾"-16UNF-2A	1 ¼"	34	43	40	¾"-16UNF-2B	13
HDM 406	54	12	1"-14UNS-2A	41	39	50	47	1"-14UNS-2B	13
HDM 408	63	12	1 ½"-UNF-2A	56	55	68	65	1 ½"-UNF-2B	13

Series 4: Male Bulkhead Connector [BS: With barrel sealing]



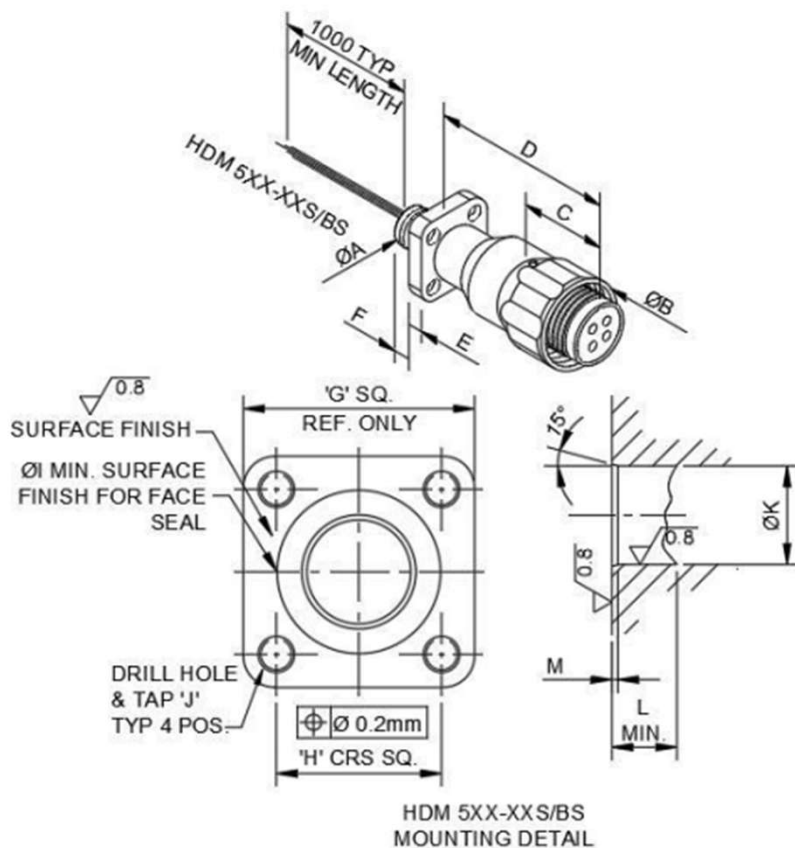
Shell/Dim	A	B	C	D	øE	øF	øG	H	I	øJ	K	L
HDM 402	19	16	M16x1-6g	17	29	29	19	M16x1-6H	19	16.027 16.000	7	1
HDM 403	33	19	M14x1-6g	24	26	30	27	M14x1-6H	20	16.027 16.000	10	1.2 1
HDM 404	52	19	5/8"-18UNF-2A	28	29	34	32	5/8"-18UNF-2B	19	17.027 17.000	8	1
HDM 405	55	19	3/4"-16UNF-2A	1 1/4"	34	43	40	3/4"-16UNF-2B	20	20.033 20.000	9	1
HDM 406	54	22	1"-14UNS-2A	41	39	50	47	1"-14UNS-2B	23	36.039 36.000	11	1
HDM 408	63	22	1 1/2"-UNF-2A	56	55	68	65	1 1/2"-UNF-2B	23	40.064 40.000	11	1

Series 5: Female Panel Mount Connector [Standard: No barrel sealing]



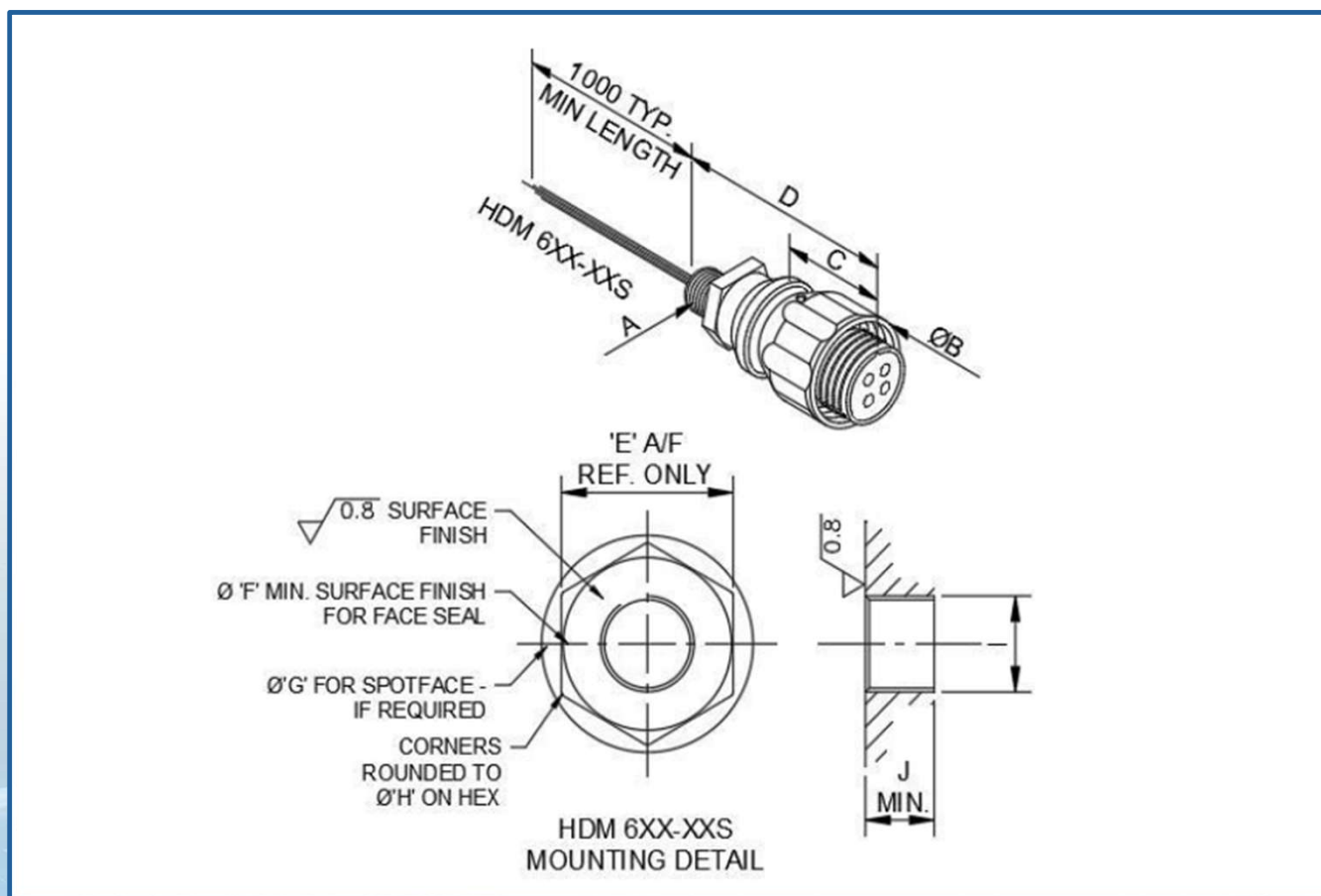
Shell/Dim.	ØA	B	C	D	E	F	G	H	ØI	J	ØK	L	M
HDM 502	16	18	25	39	6	16	20	15	28	M2.5	16.027 16.000	17	2
HDM 503	13	25	25	65	4	10	32	22	24	M4	12.843 12.816	10	1.3 1
HDM 504	16	35	35	XX*	6	12	38	25	29	M5	15.627 15.600	13	1.3 1
HDM 505	19	45	40	86	6	12	45	32	32	M6	19.033 19.000	13	1.3 1
HDM 506	25	50	XX*	XX*	6	12	51	38	39	M6	25.453 25.420	13	1.3 1
HDM 508	38	64	48	93	10	16	67	51	51	M8	38.139 38.100	17	1.3 1
HDM 511	60	85	55	114	14	18	89	70	74	M10	60.371 60.325	19	1.3 1

Series 5: Female Panel Mount Connector [BS: With barrel sealing]



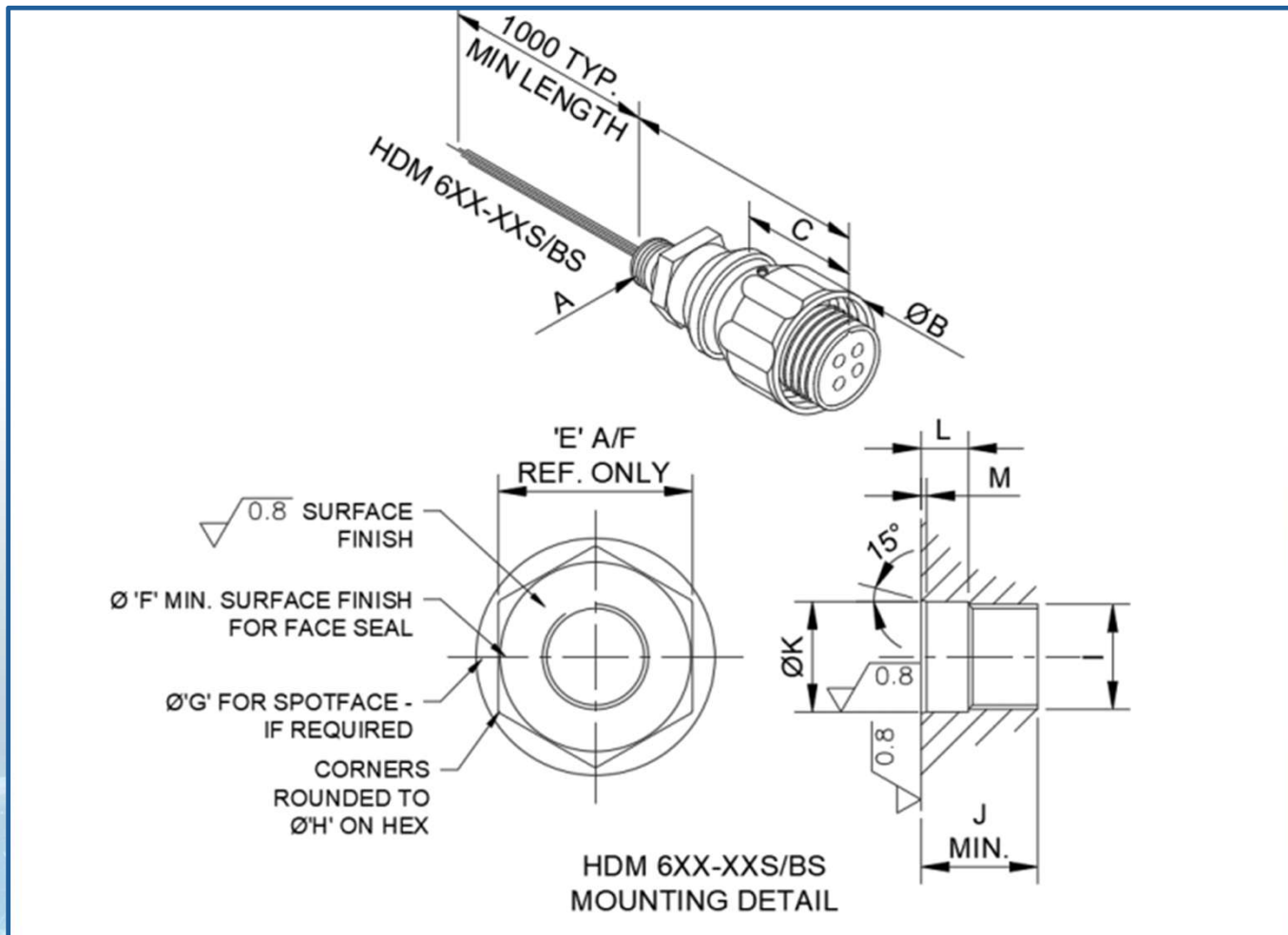
Shell/Dim.	ØA	B	C	D	E	F	G	H	ØI	J	ØK	L	M
HDM 502	16	18	25	39	6	22	20	15	28	M2.5	16.027 16.000	28	2
HDM 503	13	25	25	65	4	10	32	22	24	M4	12.823 12.796	10	1.3 1
HDM 504	16	35	35	XX*	6	12	38	25	29	M5	15.627 15.600	13	1.3 1
HDM 505	19	45	40	86	6	12	45	32	32	M6	19.033 19.00	13	1.3 1
HDM 506	25	50	XX*	XX*	6	12	51	38	39	M6	25.453 25.420	13	1.3 1
HDM 508	38	64	48	93	10	16	67	51	51	M8	38.139 38.100	17	1.3 1
HDM 511	60	85	55	114	14	18	89	70	74	M10	60.371 60.325	19	1.3 1

Series 6: Female Bulkhead Connector [Standard: No barrel sealing]



Shell/Dim.	A	B	C	D	E	ØF	ØG	ØH	I	J
HDM 602	M16x1-6g	18	25	64	17	29	29	19	M15x1-6H	19
HDM 603	M14x1-6g	25	26	XX*	24	26	30	27	M14x1-6H	20
HDM 604	5/8"-18UNF-2A	35	38	XX*	28	29	34	32	5/8"-18UNF-2B	19
HDM 605	¾"-16UNF-2A	45	43	67	1 ¼"	34	43	40	¾"-16UNF-2B	20
HDM 606	1"-14UNS-2A	50	40	XX*	41	39	50	47	1"-14UNS-2B	23
HDM 608	1 ½"-UNF-2A	64	50	132	56	55	68	65	1 ½"-UNF-2B	23

Series 6: Female Bulkhead Connector [BS: With barrel sealing]

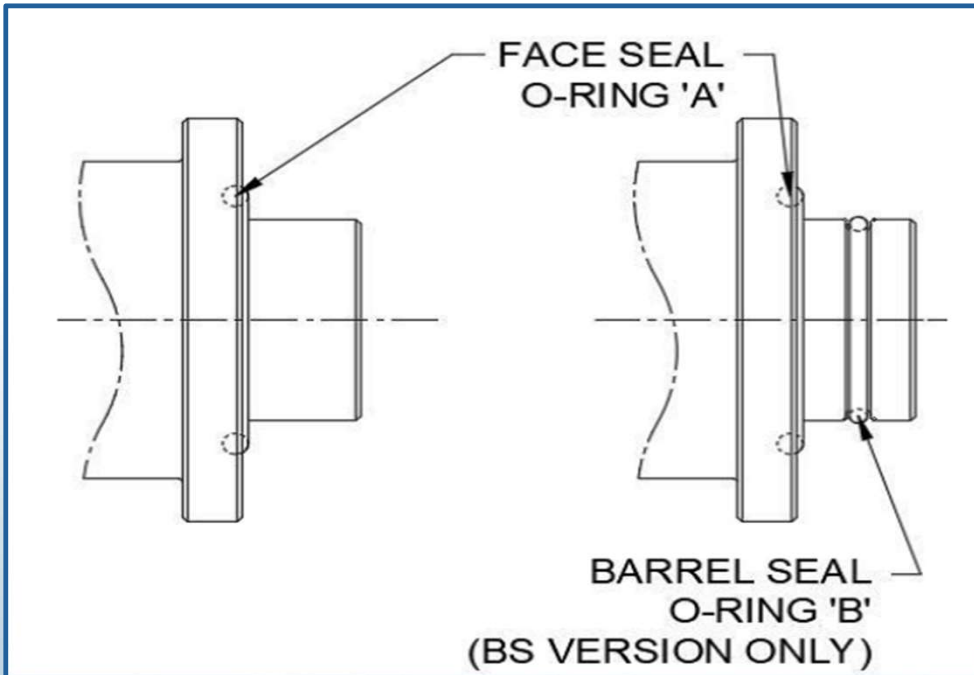


Shell/Dim.	A	B	C	D	E	ØF	ØG	ØH	I	J	ØK	L	M
HDM 602	M16x1-6g	18	25	64	17	29	29	19	M16x1-6H	19	16.027 16.000	7	1.2 1
HDM 603	M14x1-6g	25	26	XX*	24	26	30	27	M14x1-6H	20	16.027 16.000	10	1.2 1
HDM 604	5/8"-18UNF-2A	35	38	XX*	29	29	34	32	5/8"-18UNF-2B	19	17.027 17.000	8	1.2 1
HDM 605	¾"-16UNF-2A	45	43	67	1 ¼"	34	43	40	¾"-16UNF-2B	20	20.033 20.000	9	1.2 1
HDM 606	1"-14UNS-2A	50	40	XX*	41	39	50	47	1"-14UNS-2B	23	36.039 36.000	11	1.2 1
HDM 608	1 ½"-UNF-2A	64	50	132	56	55	68	65	1 ½"-UNF-2B	23	40.064 40.000	11	1.2 1

O-Ring Selection

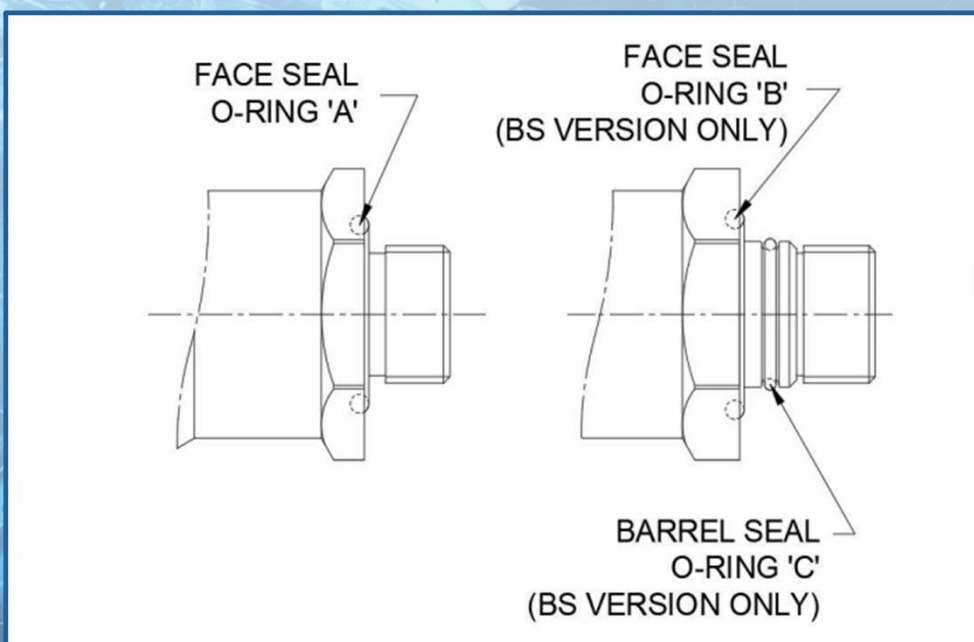
Panel Mount Connectors

[3, 5 and 9 Series – Standard and Barrel Sealed]



Bulkhead Connectors

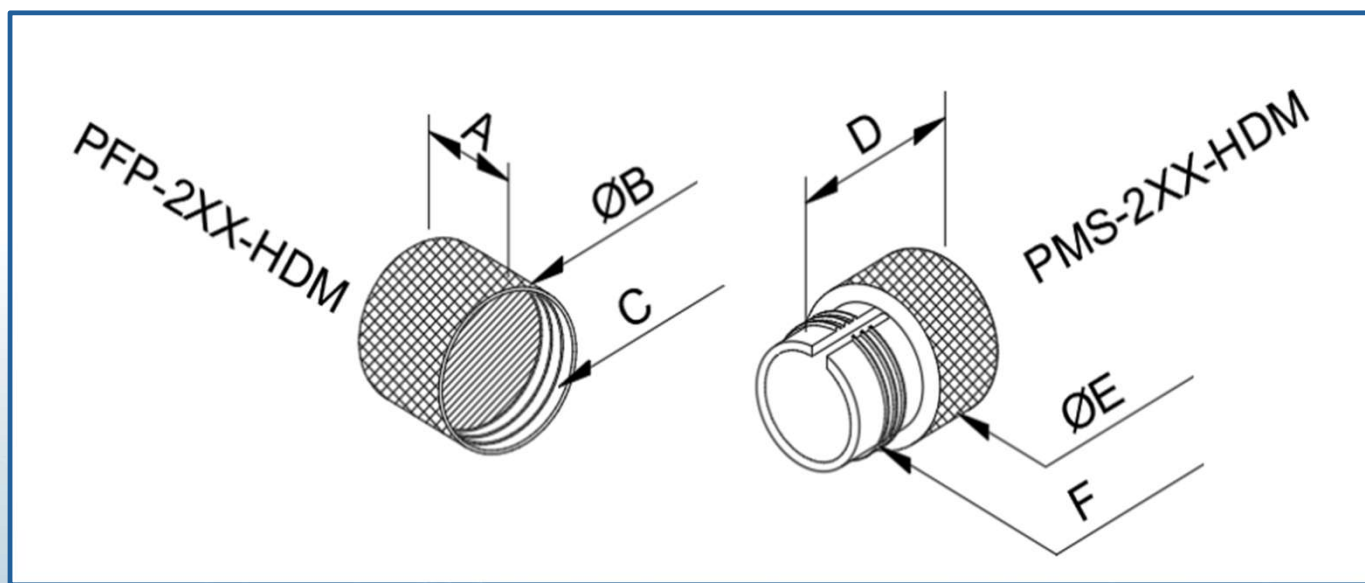
[4, 6 and 10 Series – Standard and Barrel Sealed]



Dust Cap Selection

PFP – to blank connectors without Coupling Ring – Ser. 1, 3, 4, 7, 9, 10 & 14

PMS – to blank connectors with Coupling Ring – Ser. 2, 5, 6 & 8



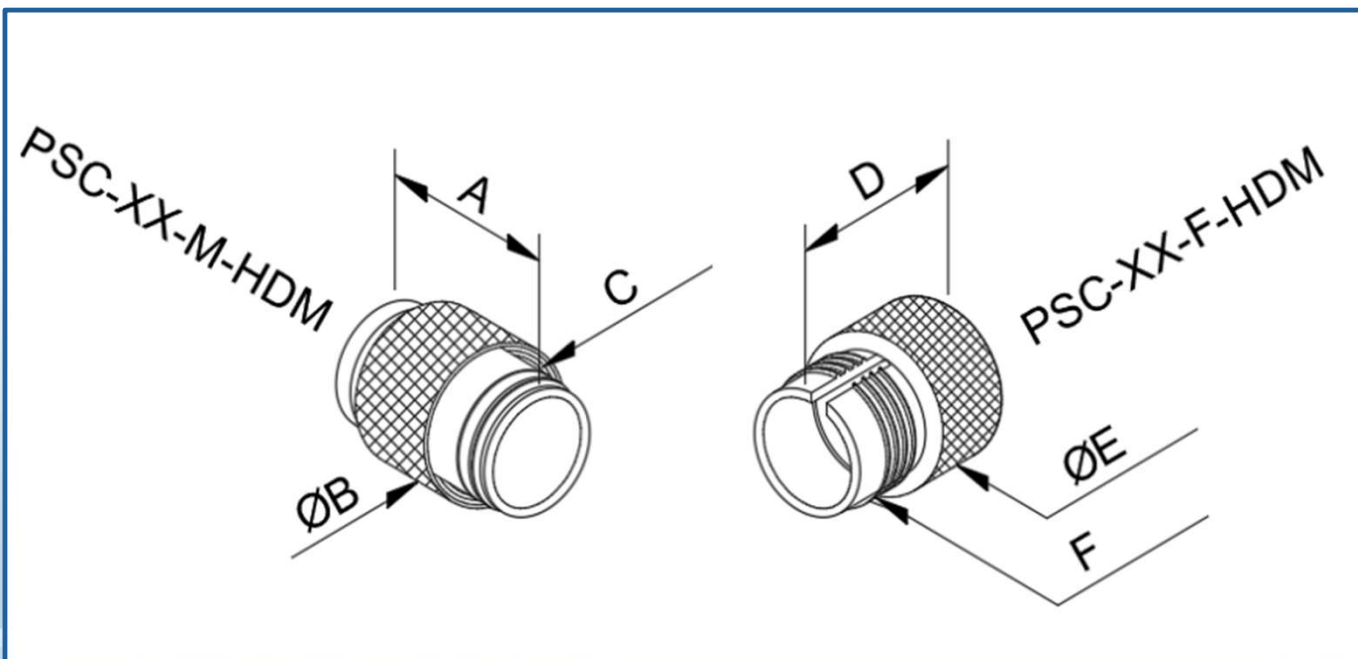
Shell/Dim.	PFP			PMS		
	A	ØB	C	D	ØE	F
HDM 02	16	20	M16x1-6H	30	18	M16x1-6g
HDM 03	20	25	7/8"-14UNF-2B	25	25	7/8"-14UNF-2A
HDM 04	35	38	1-1/4"-9TPI-2B	43	36	1-1/4"-9TPI-2A
HDM 05	40	45	1-1/2"-9TPI-2B	50	45	1-1/2"-9TPI-2A
HDM 06	40	50	1-3/4"-9TPI-2B	45	51	1-3/4"-9TPI-2A
HDM 08	40	64	2-1/4"-9TPI-2B	50	64	2-1/4"-9TPI-2A
HDM 11	40	85	3"-9TPI-2B	58	85	3"-9TPI-2A

Pressure Sealing Cap Selection

PSC-XX-M – to fit connectors without Coupling Ring –

Ser. 1, 3, 4, 7, 9, 10 & 14

PSC-XX-F – to fit connectors with Coupling Ring – Ser. 2, 5, 6 & 8



Shell/Dim.	PSC-XX-M-HDM			PSC-XX-F-HDM		
	A	ØB	C	D	ØE	F
HDM X02	28	18	M16x1-6H	30	18	M16x1-6g
HDM X03	31	25	7/8"-14UNF-2B	29	25	7/8"-14UNF-2A
HDM X04	45	35	1-1/4"-9TPI-2B	43	36	1-1/4"-9TPI-2A
HDM X05	49	45	1-1/2"-9TPI-2B	50	45	1-1/2"-9TPI-2A
HDM X06	49	50	1-3/4"-9TPI-2B	52	50	1-3/4"-9TPI-2A
HDM X08	54	64	2-1/4"-9TPI-2B	55	64	2-1/4"-9TPI-2A
HDM X11	63	85	3"-9TPI-2B	58	85	3"-9TPI-2A

Specification

Shell Size 2

3 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø3.0 mm /9 Amps
- Pin Voltage Rating: 1,000 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 °C to +60 °C
- Conductor Tail Size: 19 AWG/ 0.75 sq. mm
- Solder Bucket Size: ø1.4 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- 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 m
- O – Rings: Nitrile 70

4 CONTACTS

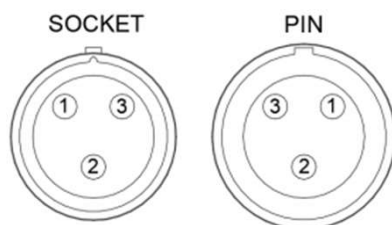
Electrical & Environmental

- Pin Size/ Current Rating: Ø3.0 mm /7 Amps
- Pin Voltage Rating: 1,000 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 °C to +60 °C
- Conductor Tail Size: 19 AWG/ 0.75 sq. mm
- Solder Bucket Size: ø1.4 mm

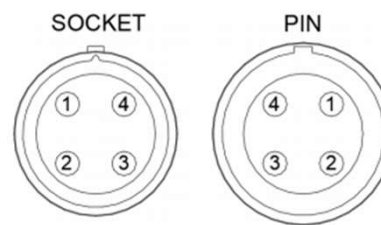
Standard Material Specification

- Body: 316 Stainless Steel Socket
- 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 m
- O – Rings: Nitrile 70

HDM X02 – 03



HDM X02 – 04



* Custom Product Design Available

Specification

Shell Size 3

3 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø3.0 mm /9 Amps
- Pin Voltage Rating: 1,000 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 °C to +60 °C
- Conductor Tail Size: 19 AWG/ 0.75 sq. mm
- Solder Bucket Size: ø1.4 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- 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 m
- O – Rings: Nitrile 70

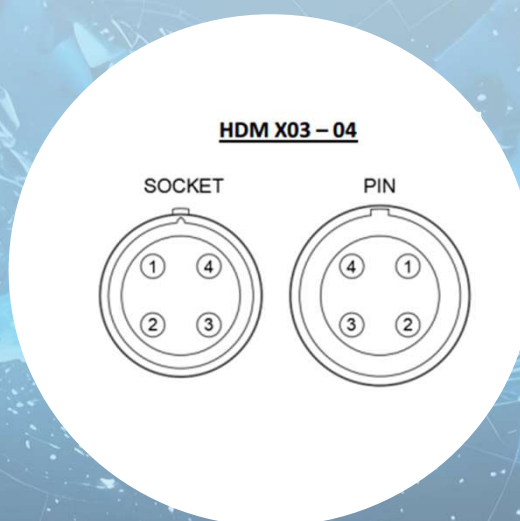
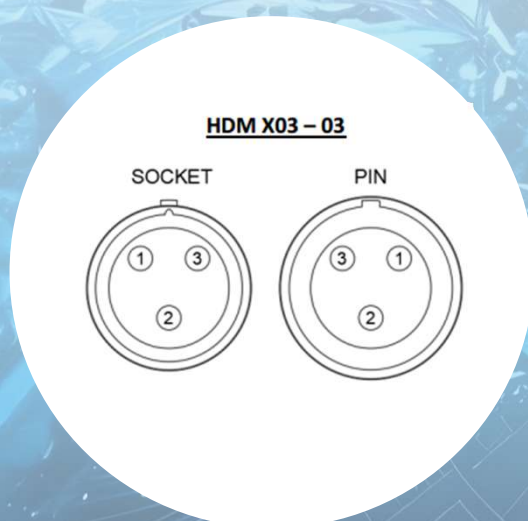
4 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø3.0 mm /7 Amps
- Pin Voltage Rating: 1,000 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 °C to +60 °C
- Conductor Tail Size: 19 AWG/ 0.75 sq. mm
- Solder Bucket Size: ø1.4 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- 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 m
- O – Rings: Nitrile 70



* Custom Product Design Available

Specification

Shell Size 3

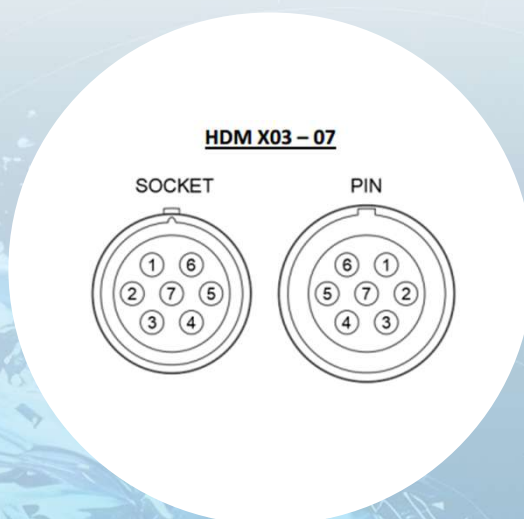
7 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø1.0 mm /3.5 Amps
- Pin Voltage Rating: 1,000 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 20 AWG/ 0.5 sq. mm
- Solder Bucket Size: ø1.2 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- 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 m
- O – Rings: Nitrile 70



* Custom Product Design Available

Specification

Shell Size 4

2 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø3.0 mm /35 Amps
- Pin Voltage Rating: 1,500 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 10 AWG/ 4.0 sq. mm
- Solder Bucket Size: ø3.2 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- 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 m
- O – Rings: Nitrile 70

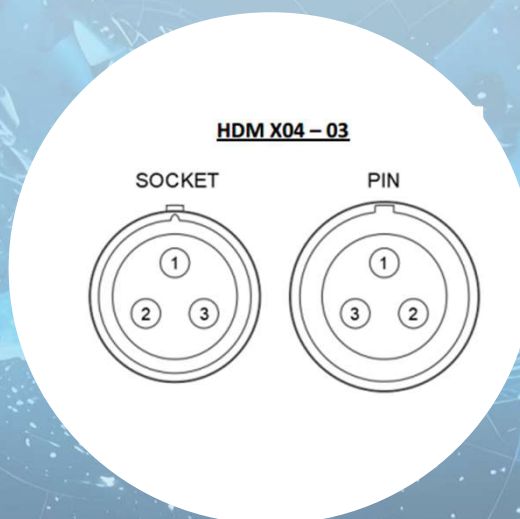
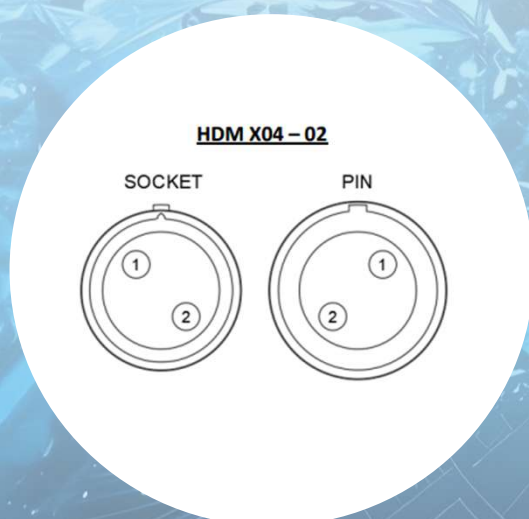
3 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø1.6 mm /9 Amps
- Pin Voltage Rating: 1,500 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 19 AWG/ 0.75 sq. mm
- Solder Bucket Size: ø1.4 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- 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 m
- O – Rings: Nitrile 70



* Custom Product Design Available

Specification

Shell Size 4

4 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø1.6 mm /10 Amps
- Pin Voltage Rating: 1,000 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 °C to +60 °C
- Conductor Tail Size: 18 AWG/ 1.0 sq. mm
- Solder Bucket Size: ø1.6 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- 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 m
- O – Rings: Nitrile 70

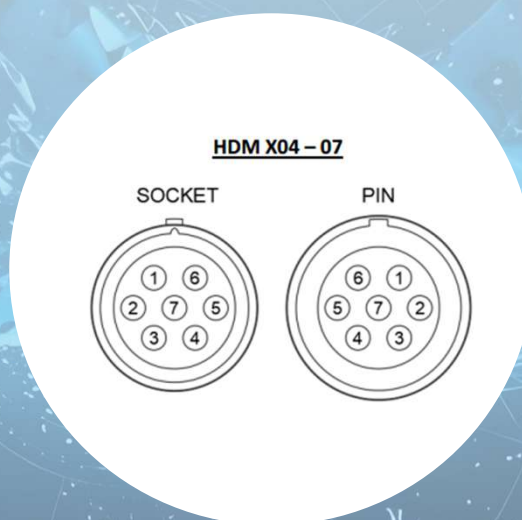
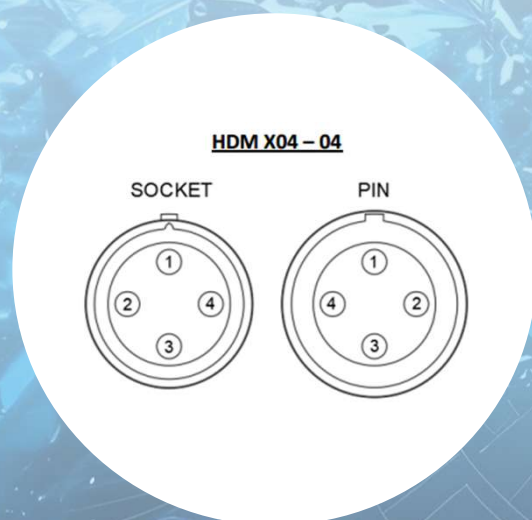
7 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø1.6 mm /8 Amps
- Pin Voltage Rating: 1,000 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 °C to +60 °C
- Conductor Tail Size: 18 AWG/ 1.0 sq. mm
- Solder Bucket Size: ø1.6 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- 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 m
- O – Rings: Nitrile 70



* Custom Product Design Available

Specification

Shell Size 4

12 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø1.0 mm /3.5 Amps
- Pin Voltage Rating: 1,000 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 °C to +60 °C
- Conductor Tail Size: 20 AWG/ 0.5 sq. mm
- Solder Bucket Size: ø1.2 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- 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 m
- O – Rings: Nitrile 70

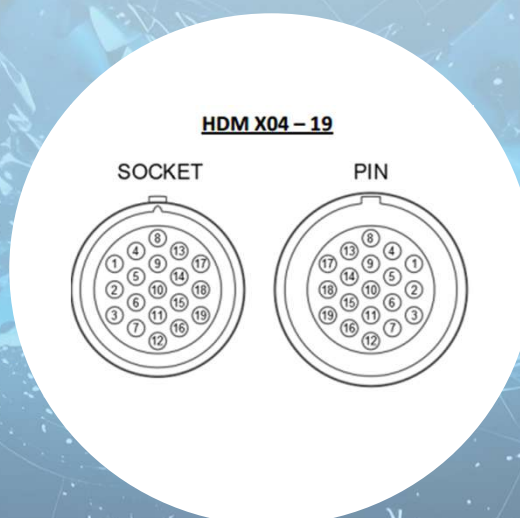
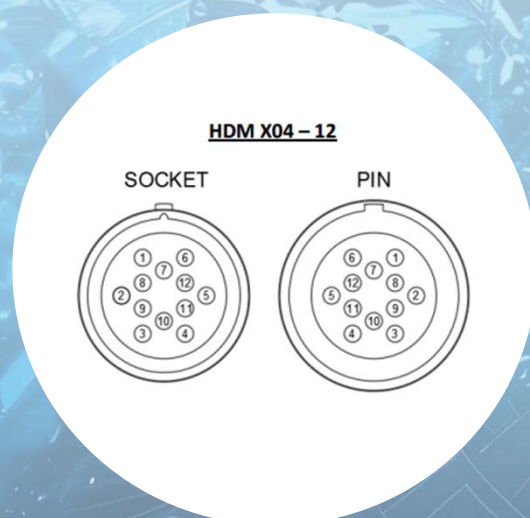
19 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø1.0 mm /3 Amps
- Pin Voltage Rating: 1,000 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 °C to +60 °C
- Conductor Tail Size: 20 AWG/ 0.5 sq. mm
- Solder Bucket Size: ø1.2 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- 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 m
- O – Rings: Nitrile 70



* Custom Product Design Available

Specification

Shell Size 5

9 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø1.6 mm /7 Amps
- Pin Voltage Rating: 1,500 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 18 AWG/ 1.0 sq. mm
- Solder Bucket Size: ø1.6 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- 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 m
- O – Rings: Nitrile 70

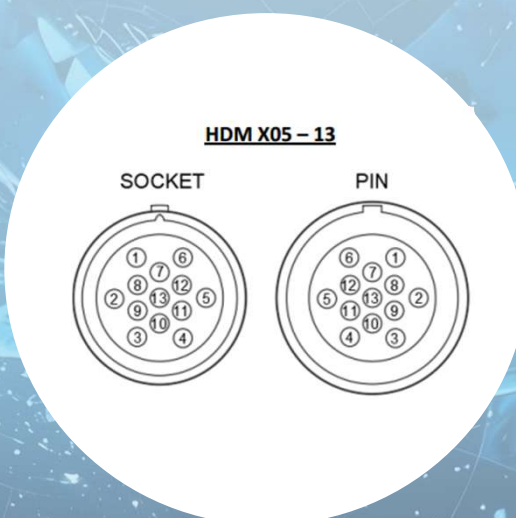
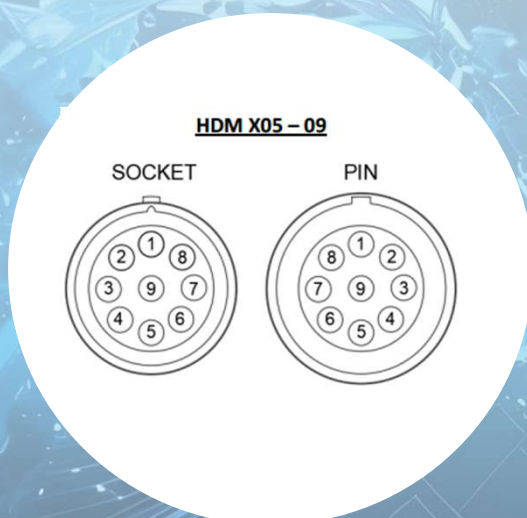
13 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø1.6 mm /5 Amps
- Pin Voltage Rating: 1,500 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 18 AWG/ 1.0 sq. mm
- Solder Bucket Size: ø1.6 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- 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 m
- O – Rings: Nitrile 70



* Custom Product Design Available

Specification

Shell Size 5

19 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø1.6 mm /3.5 Amps
- Pin Voltage Rating: 1,500 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 18 AWG/ 1.0 sq. mm
- Solder Bucket Size: ø1.6 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- 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 m
- O – Rings: Nitrile 70

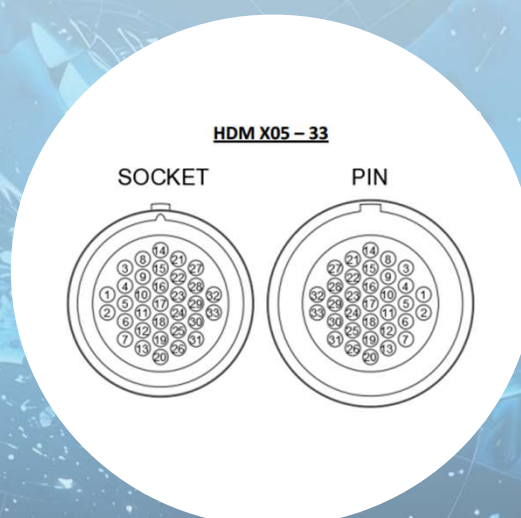
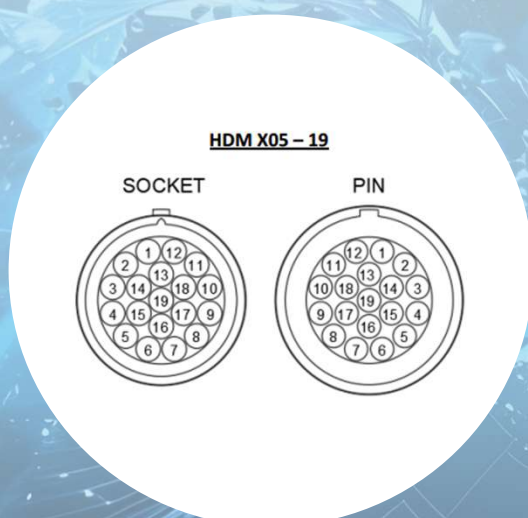
33 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø1.0 mm /2 Amps
- Pin Voltage Rating: 1,500 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 20 AWG/ 0.5 sq. mm
- Solder Bucket Size: ø1.2 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- 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 m
- O – Rings: Nitrile 70



* Custom Product Design Available

Specification

Shell Size 6

2 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø6.0 mm / Ø3.0 mm /95 Amps/ 20Amps
- Pin Voltage Rating: 1,500 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 25 AWG/ 4.0 sq. mm
- Solder Bucket Size: ø5.85 mm / ø2.5 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- 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 m
- O – Rings: Nitrile 70

4 CONTACTS

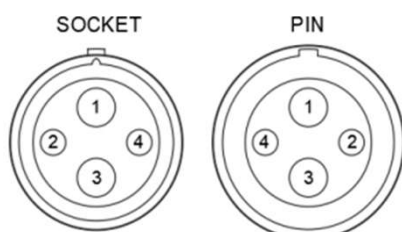
Electrical & Environmental

- Pin Size/ Current Rating: Ø3.0 mm /20 Amps
- Pin Voltage Rating: 3,000 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 12 AWG/ 2.5 sq. mm
- Solder Bucket Size: ø2.5 mm

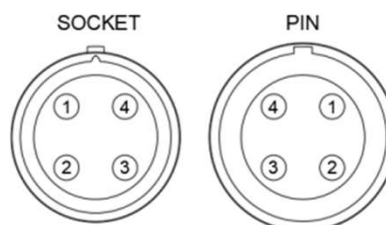
Standard Material Specification

- Body: 316 Stainless Steel Socket
- 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 m
- O – Rings: Nitrile 70

HDM X06 – 02-02



HDM X06 – 04



* Custom Product Design Available

Specification

Shell Size 6

7 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø3.0 mm / 16Amps
- Pin Voltage Rating: 1,500 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 12 AWG/ 2.5 sq. mm
- Solder Bucket Size: ø2.5 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- 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 m
- O – Rings: Nitrile 70

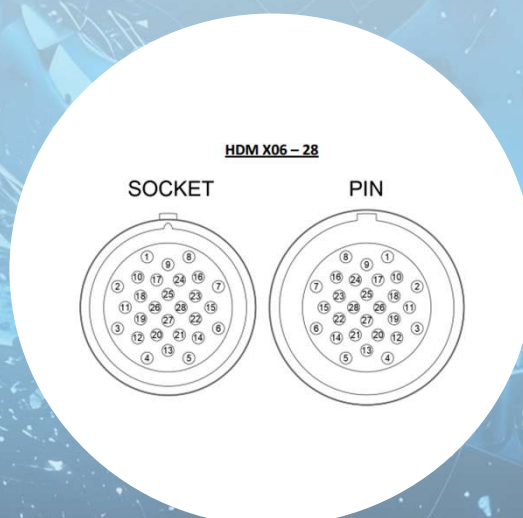
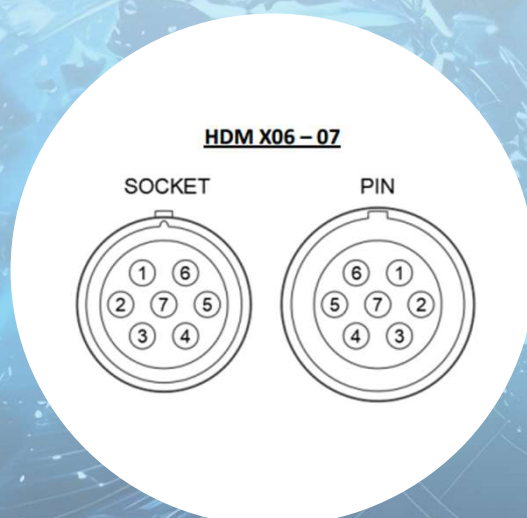
28 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø1.0 mm /3 Amps
- Pin Voltage Rating: 3,000 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 20 AWG/ 0.5 sq. mm
- Solder Bucket Size: ø1.2 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- 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 m
- O – Rings: Nitrile 70



* Custom Product Design Available

Specification

Shell Size 6

37 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø1.0 mm / 2.5Amps
- Pin Voltage Rating: 1,000 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 20 AWG/ 0.5 sq. mm
- Solder Bucket Size: ø1.2 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- 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 m
- O – Rings: Nitrile 70

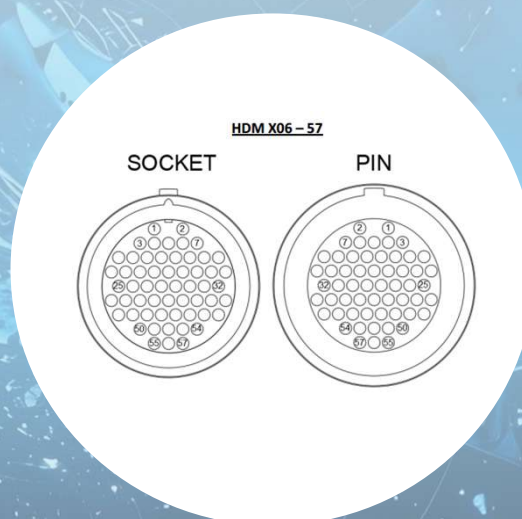
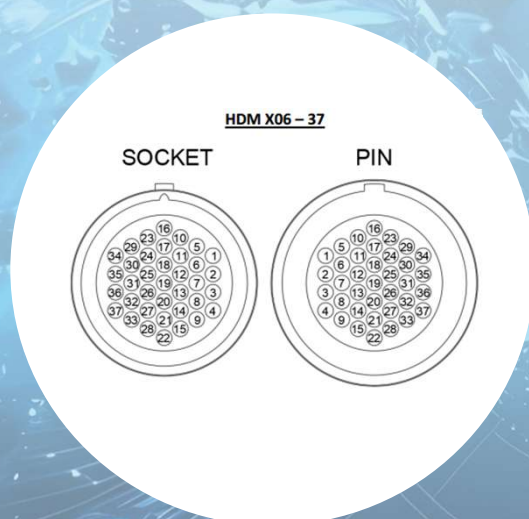
57 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø1.0 mm / 2 Amps
- Pin Voltage Rating: 1,000 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 20 AWG/ 0.5 sq. mm
- Solder Bucket Size: ø1.2 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- 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 m
- O – Rings: Nitrile 70



* Custom Product Design Available

Specification

Shell Size 8

1 CONTACT

Electrical & Environmental

- Pin Size/ Current Rating: Ø3.0 mm / 20Amps
- Pin Voltage Rating: 10,000 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 14 AWG
- Solder Bucket Size: ø2.0 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: PEEK
- Conductor Tails: HV Cable X 1 m
- O – Rings: Nitrile 70

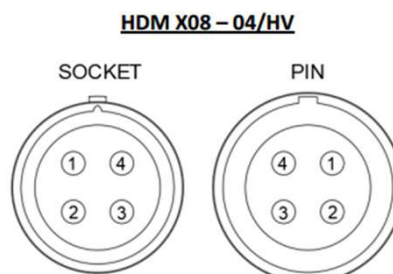
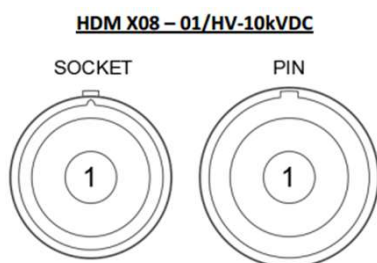
4 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø3.0 mm / 20Amps
- Pin Voltage Rating: 3,300 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 14 AWG/1.5 sq. mm
- Solder Bucket Size: ø2.0 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: PEEK
- Conductor Tails: HV Cable X 1 m
- O – Rings: Nitrile 70



* Custom Product Design Available

Specification

Shell Size 8

4 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø6.0 mm / 60Amps
- Pin Voltage Rating: 1,500 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: /25.0 sq. mm
- Solder Bucket Size: ø5.85 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: PEEK
- Conductor Tails: SPEC44 X 1 m
- O – Rings: Nitrile 70

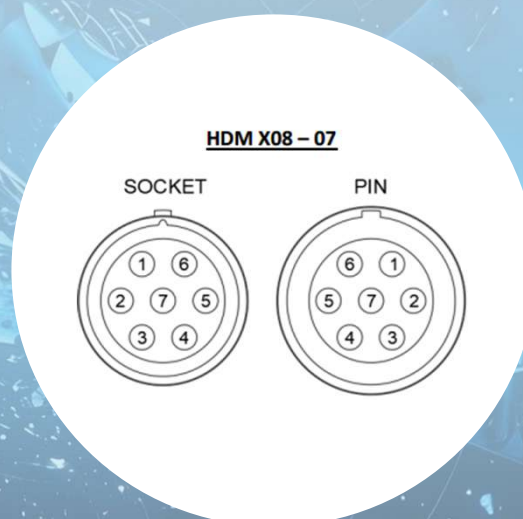
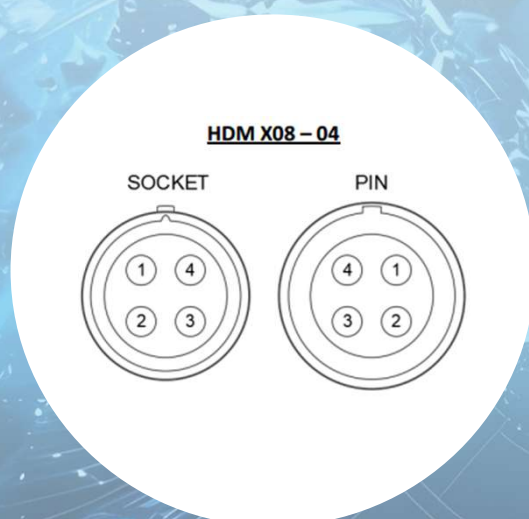
7 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø3.0 mm / 16Amps
- Pin Voltage Rating: 1,500 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 14 AWG/1.5 sq. mm
- Solder Bucket Size: ø2.0 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: PEEK
- Conductor Tails: HV Cable X 1 m
- O – Rings: Nitrile 70



* Custom Product Design Available

Specification

Shell Size 8

8 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø3.0 mm / 15Amps
- Pin Voltage Rating: 1,500 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 12 AWG/2.5 sq. mm
- Solder Bucket Size: ø2.5 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: PEEK
- Conductor Tails: SPEC44 X 1 m
- O – Rings: Nitrile 70

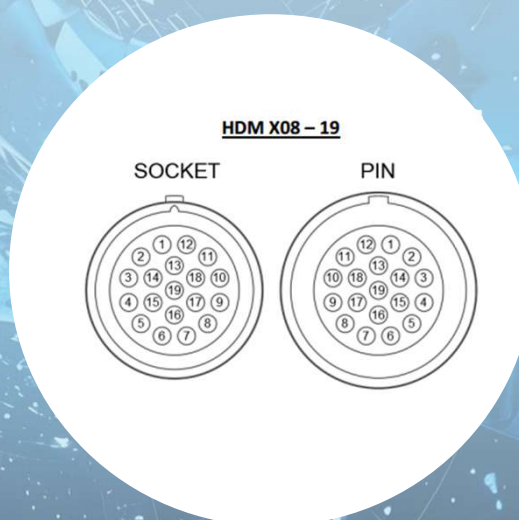
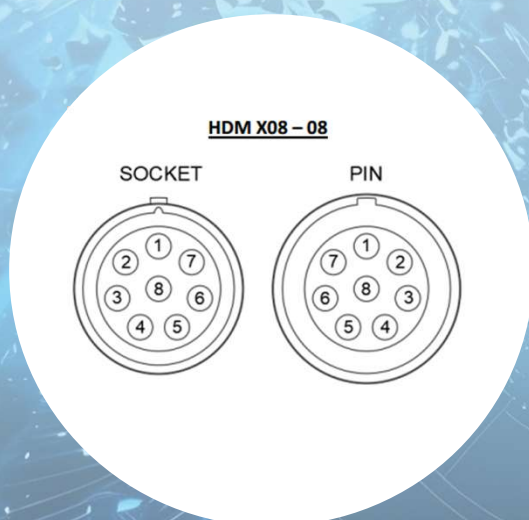
19 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø1.6 mm / 5Amps
- Pin Voltage Rating: 1,500 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 18 AWG/1.0 sq. mm
- Solder Bucket Size: ø1.6 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: PEEK
- Conductor Tails: HV Cable X 1 m
- O – Rings: Nitrile 70



* Custom Product Design Available

Specification

Shell Size 8

24 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø1.6 mm / 4Amps
- Pin Voltage Rating: 1,000 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 18 AWG/1.0 sq. mm
- Solder Bucket Size: ø1.6 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: PEEK
- Conductor Tails: SPEC44 X 1 m
- O – Rings: Nitrile 70

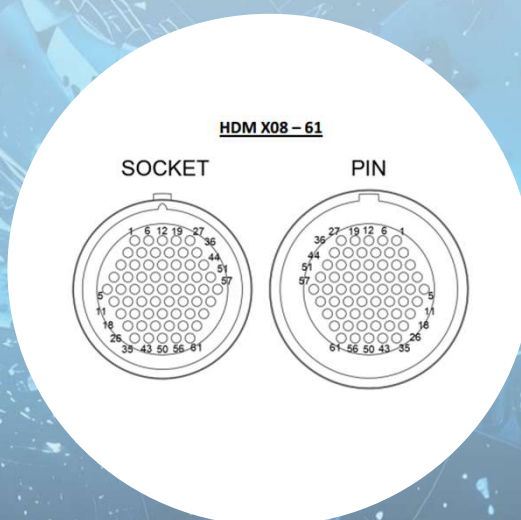
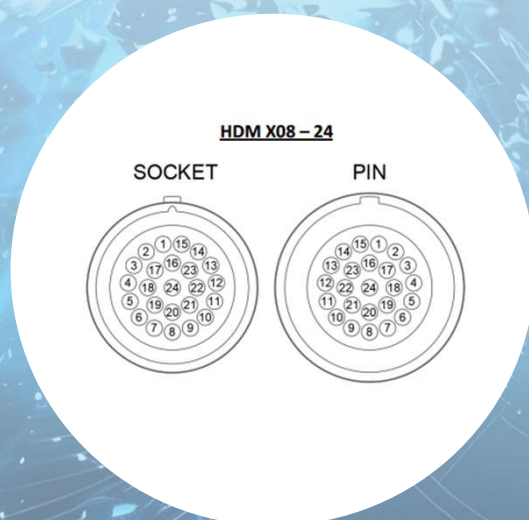
61 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø1.0 mm / 2Amps
- Pin Voltage Rating: 1,000 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 20 AWG/0.5 sq. mm
- Solder Bucket Size: ø1.2 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: PEEK
- Conductor Tails: HV Cable X 1 m
- O – Rings: Nitrile 70



* Custom Product Design Available

Specification

Shell Size 8

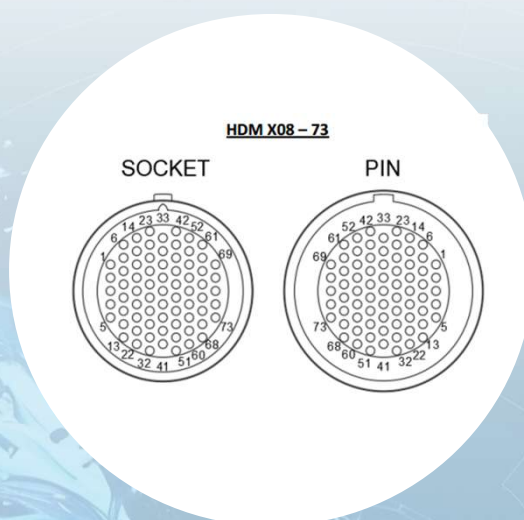
73 PINS

Electrical & Environmental

- Pin Size/ Current Rating: Ø1.0 mm / 2Amps
- Pin Voltage Rating: 1,000 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 ° C to +60 ° C
- Conductor Tail Size: 20 AWG/0.5 sq. mm
- Solder Bucket Size: ø1.2 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: PEEK
- Conductor Tails: SPEC44 X 1 m
- O – Rings: Nitrile 70



* Custom Product Design Available

Specification

Shell Size 11

4 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø3.0 mm / 8Amps
- Pin Voltage Rating: 4,500 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 °C to +60 °C
- Conductor Tail Size: 10 AWG/4.0 sq. mm
- Solder Bucket Size: ø3.2 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: PEEK
- Conductor Tails: HV Cable X 1 m
- O – Rings: Nitrile 70

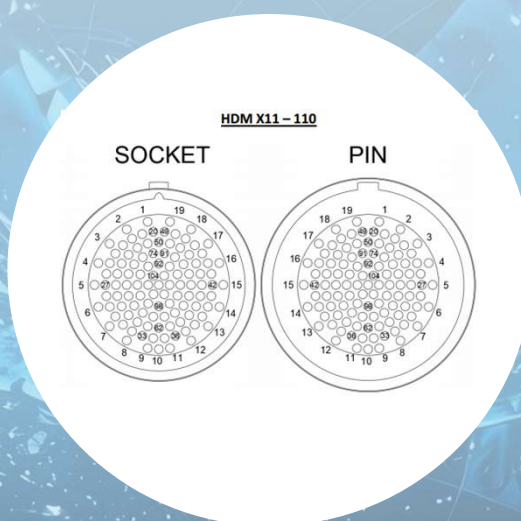
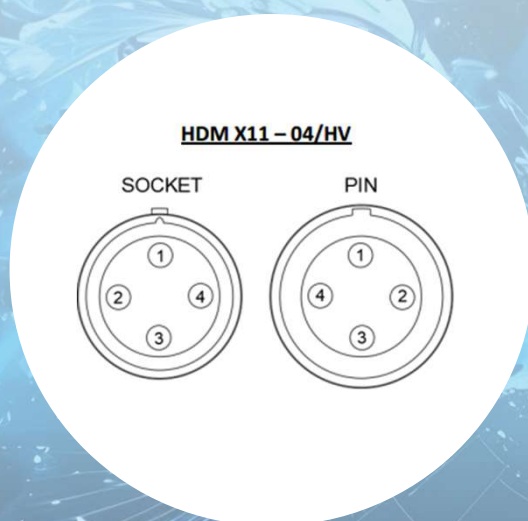
110 CONTACTS

Electrical & Environmental

- Pin Size/ Current Rating: Ø1.0 mm / 1Amps
- Pin Voltage Rating: 1,000 V rms
- Contact to Contact IR: >1 GOhm @1kVDC
- Contact to Body IR: >1 GOhm @1kVDC
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20 °C to +60 °C
- Conductor Tail Size: 20 AWG/0.5 sq. mm
- Solder Bucket Size: ø1.2 mm

Standard Material Specification

- Body: 316 Stainless Steel Socket
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: PEEK
- Conductor Tails: SPEC44 X 1 m
- O – Rings: Nitrile 70



* Custom Product Design Available

HDM (Hydro Group Deck Mate) Surface Mateable all Optical Connectors & Hybrid Optical / Electrical Connectors



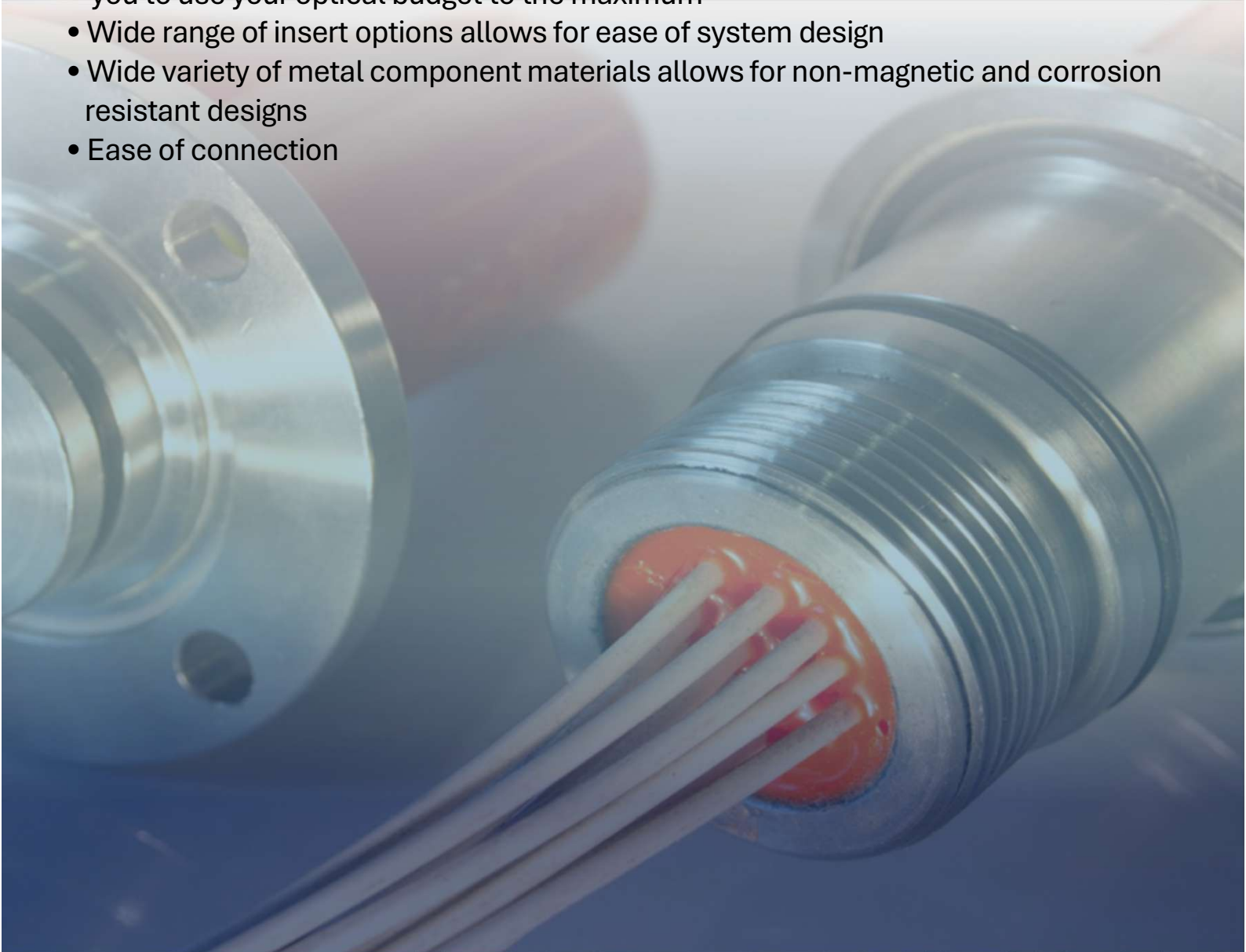
Features

- 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
- Single mode 8/125 versions for use at 1310 nm to 1550nm 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
- Single mode 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

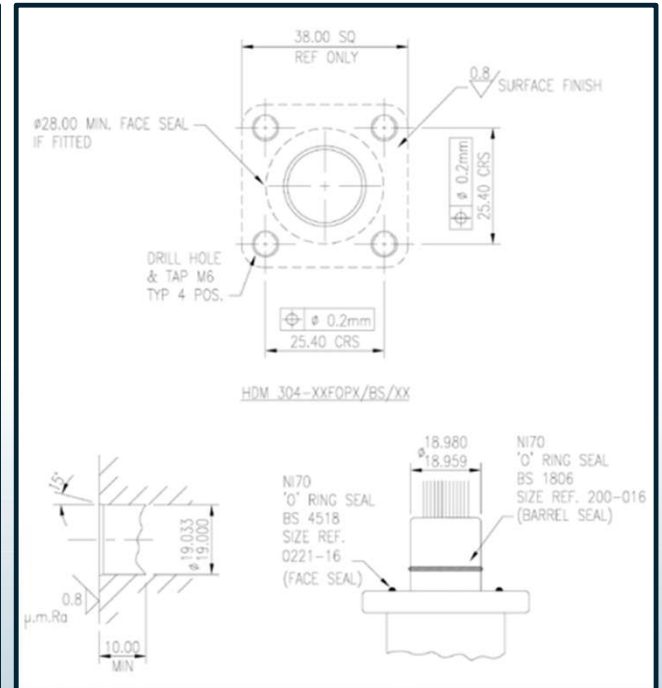
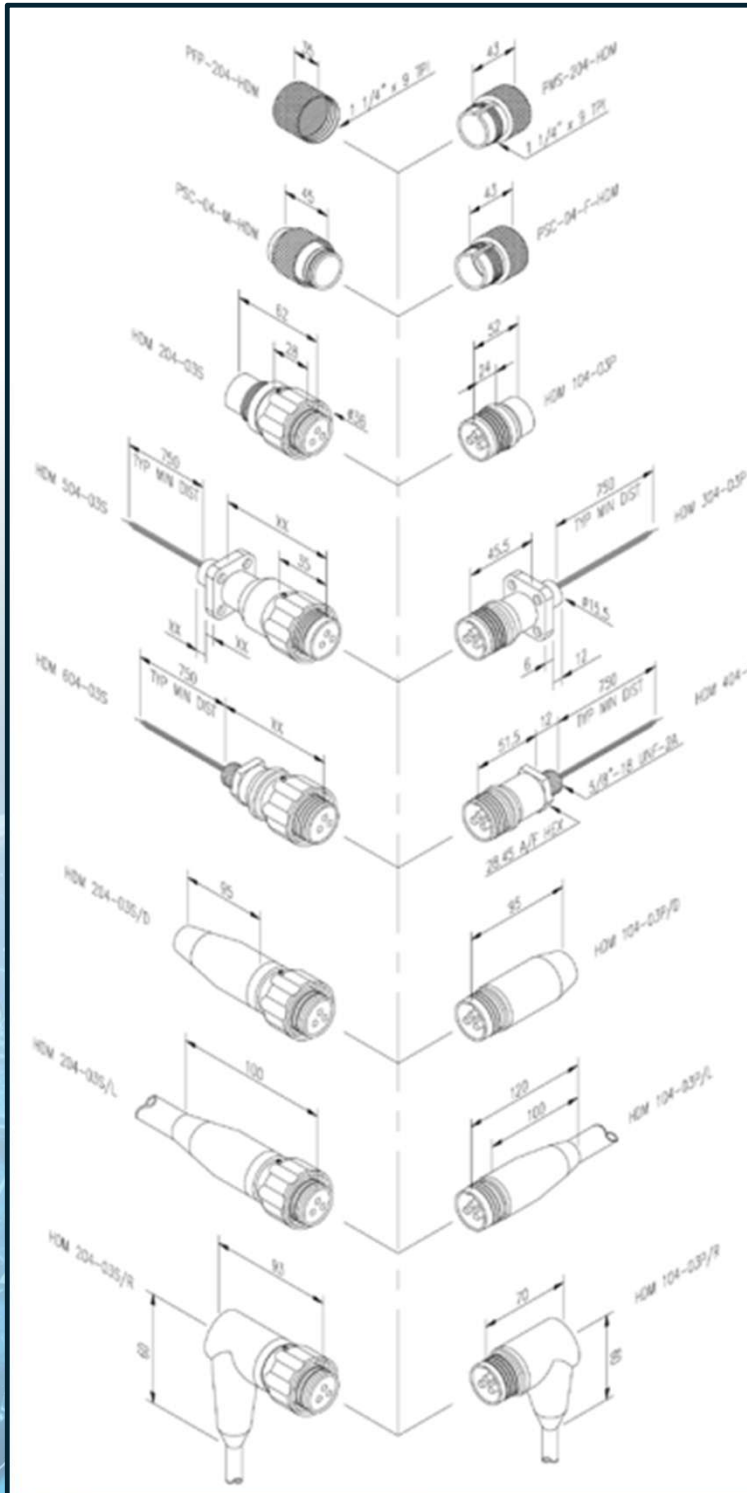
HDM (Hydro Group Deck Mate) Surface Mateable all Optical Connectors & Hybrid Optical / Electrical Connectors

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



Shell Size 4 Mechanical Details & Mounting Configurations



* Custom Product Design Available

Specification

Shell Size 4

1 X FIBRE OPTIC

Electrical & Environmental

- 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
- 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 $+60^{\circ}\text{C}$
- Conductor Tail Size: N/A
- Solder Bucket Size: N/A

Electrical & Environmental

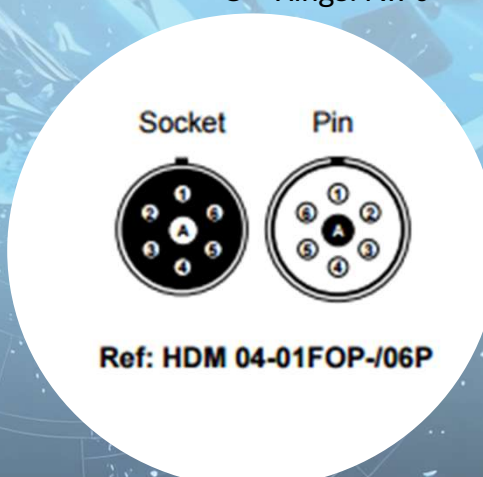
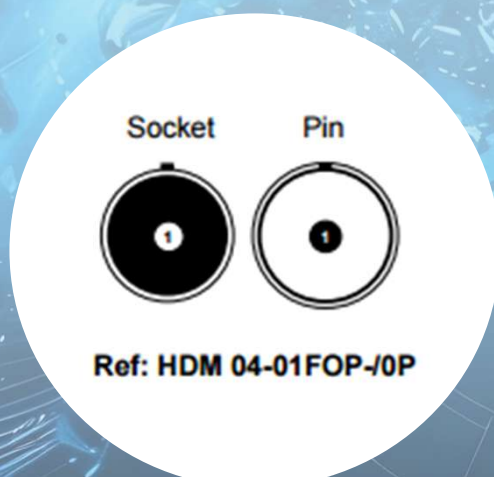
- Optical paths: 1xFibre Optic (Multi/Single Mode)
- Typical Insertion Loss: ≤ 0.5 dB
- Typical (SM) Back Reflection: < -30 dB return loss
- Pin Current Rating: 7 Amps
- Pin Voltage Rating: 1,000 V rms
- Contact to Contact IR: $> 1,000$ MOhms @ 1,000 V dc
- Contact to Body IR: $> 1,000$ MOhms @ 1,000 V dc
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20°C to $+60^{\circ}\text{C}$
- Conductor Tail Size: 18 AWG
- Solder Bucket Size: 1.2 mm dia

Standard Material Specification

- 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 ruggedised x 1.0m Terminated: ST Connectors
- O – Rings: NI70

Standard Material Specification

- Body: 316 Stainless Steel
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Optical Ferrule: Ceramic
- Optical Alignment Sleeve: Ceramic
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Peek
- Conductor Tails: Spec 44 x 1.0m
- Optical Tails: Simplex ruggedised x 1.0m Terminated: ST Connectors
- O – Rings: NI70



* Custom Product Design Available

Specification

Shell Size 4

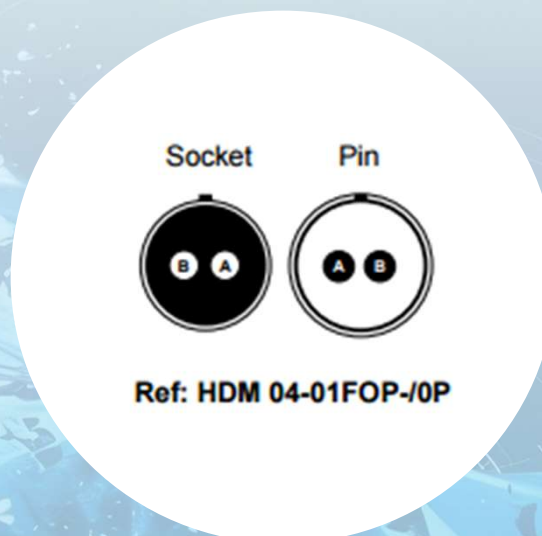
2 X FIBRE OPTIC

Electrical & Environmental

- 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 $+60^{\circ}\text{C}$
- Conductor Tail Size: N/A
- Solder Bucket Size: N/A

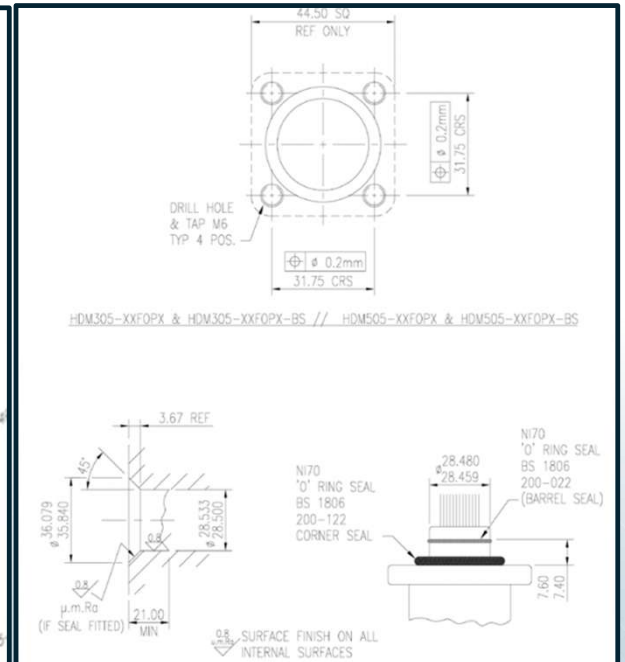
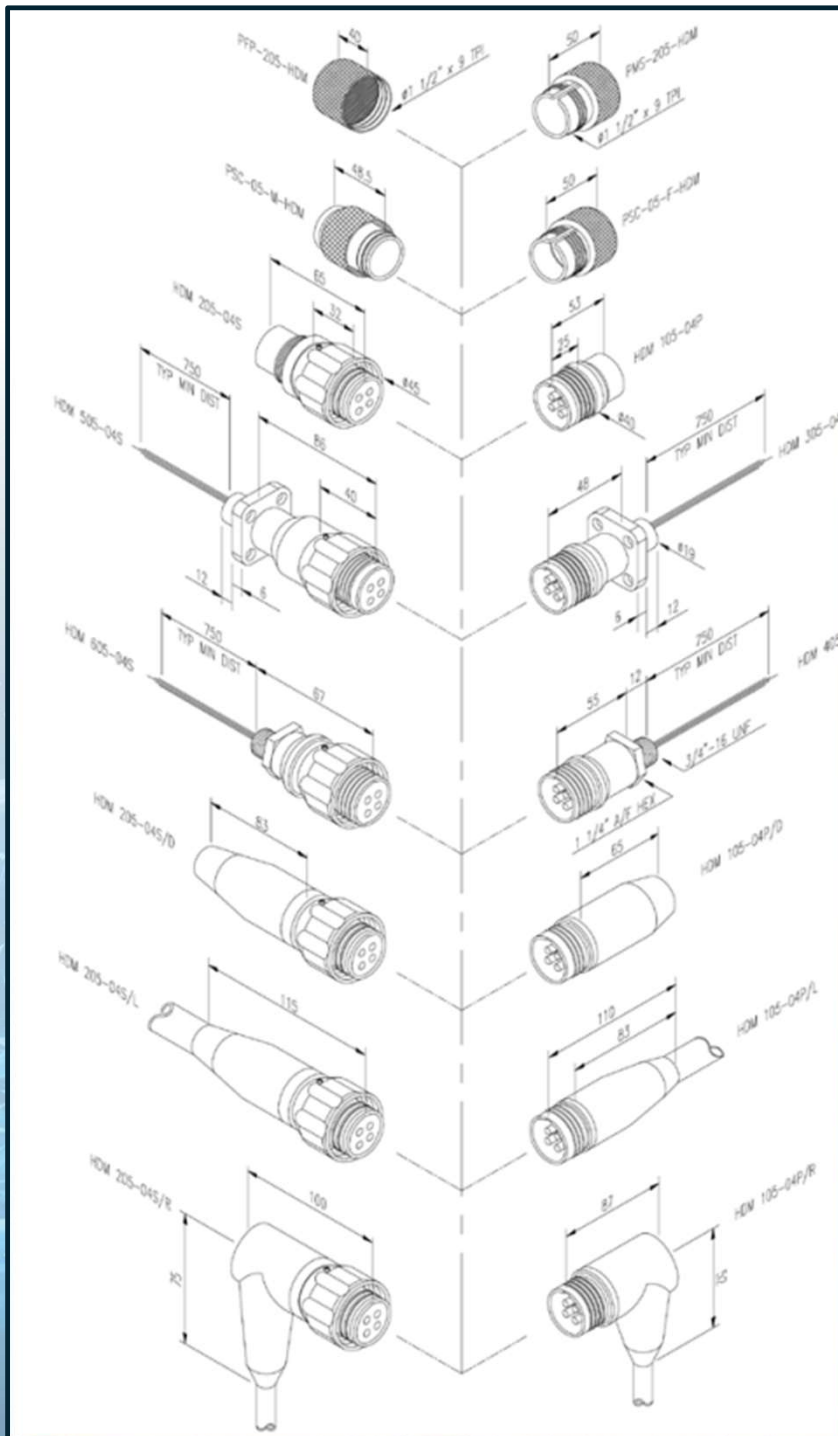
Standard Material Specification

- 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 ruggedised x 1.0m
Terminated: ST Connectors
- O – Rings: NI70



* Custom Product Design Available

Shell Size 5 Mechanical Details & Mounting Configurations



* Custom Product Design Available

Specification

Shell Size 5

1 X FIBRE OPTIC

Electrical & Environmental

- Optical paths: 1xFibre Optic (Multi/Single Mode)
- Typical 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
- Contact to Body IR: $> 1,000$ MOhms @ 1,000 V dc
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20°C to $+60^{\circ}\text{C}$
- Conductor Tail Size: 12 AWG
- Solder Bucket Size: 2.5 mm dia

2 X FIBRE OPTIC

Electrical & Environmental

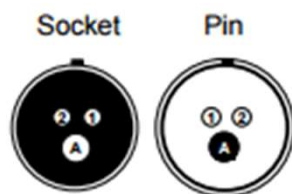
- Optical paths: 2xFibre Optic (Multi/Single Mode)
- Typical Insertion Loss: ≤ 0.5 dB
- Typical (SM) Back Reflection: < -30 dB return loss
- Pin Current Rating: 20 Amps
- Pin Voltage Rating: 1,000 V rms
- Contact to Contact IR: $> 1,000$ MOhms @ 1,000 V dc
- Contact to Body IR: $> 1,000$ MOhms @ 1,000 V dc
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20°C to $+60^{\circ}\text{C}$
- Conductor Tail Size: 12 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

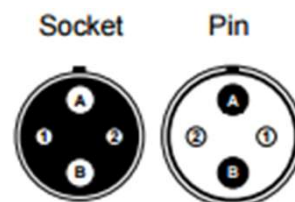
- Body: 316 Stainless Steel
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Optical Ferrule: Ceramic
- Optical Alignment Sleeve: Ceramic
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Peek
- Conductor Tails: Spec 44 x 1.0m
- Optical Tails: Simplex ruggardised x 1.0m
- Terminated: ST Connectors
- O – Rings: NI70

Standard Material Specification

- Body: 316 Stainless Steel
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Optical Ferrule: Ceramic
- Optical Alignment Sleeve: Ceramic
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Peek
- Conductor Tails: Spec 44 x 1.0m
- Optical Tails: Simplex ruggardised x 1.0m
- Terminated: ST Connectors
- O – Rings: NI70



Ref: HDM 05-01FOP-/02P



Ref: HDM 05-02FOP-/02P

* Custom Product Design Available

Specification

Shell Size 5

2 X FIBRE OPTIC

Electrical & Environmental

- Optical paths: 2xFibre Optic (Multi/Single Mode)
- Typical 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
- Contact to Body IR: $> 1,000$ MOhms @ 1,000 V dc
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20°C to $+60^{\circ}\text{C}$
- Conductor Tail Size: 12 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Optical Ferrule: Ceramic
- Optical Alignment Sleeve: Ceramic
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Peek
- Conductor Tails: Spec 44 x 1.0m
- Optical Tails: Simplex ruggardised x 1.0m
- Terminated: ST Connectors
- O – Rings: NI70

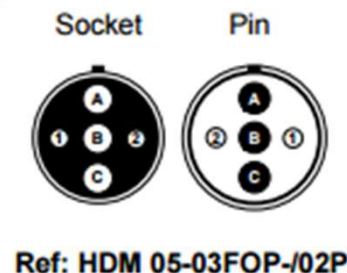
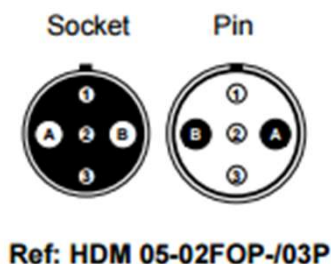
3 X FIBRE OPTIC

Electrical & Environmental

- Optical paths: 3xFibre Optic (Multi/Single Mode)
- Typical 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
- Contact to Body IR: $> 1,000$ MOhms @ 1,000 V dc
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20°C to $+60^{\circ}\text{C}$
- Conductor Tail Size: 12 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Optical Ferrule: Ceramic
- Optical Alignment Sleeve: Ceramic
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Peek
- Conductor Tails: Spec 44 x 1.0m
- Optical Tails: Simplex ruggardised x 1.0m
- Terminated: ST Connectors
- O – Rings: NI70



* Custom Product Design Available

Specification

Shell Size 5

3 X FIBRE OPTIC

Electrical & Environmental

- Optical paths: 3xFibre Optic (Multi/Single Mode)
- Typical 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
- Contact to Body IR: $> 1,000$ MOhms @ 1,000 V dc
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20°C to $+60^{\circ}\text{C}$
- Conductor Tail Size: 12 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Optical Ferrule: Ceramic
- Optical Alignment Sleeve: Ceramic
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Peek
- Conductor Tails: Spec 44 x 1.0m
- Optical Tails: Simplex ruggardised x 1.0m Terminated: ST Connectors
- O – Rings: NI70

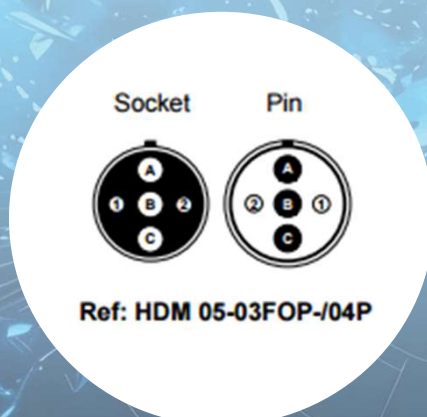
4 X FIBRE OPTIC

Electrical & Environmental

- 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
- 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 $+60^{\circ}\text{C}$
- Conductor Tail Size: 12 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Optical Ferrule: Ceramic
- Optical Alignment Sleeve: Ceramic
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Peek
- Conductor Tails: Spec 44 x 1.0m
- Optical Tails: Simplex ruggardised x 1.0m Terminated: ST Connectors
- O – Rings: NI70



* Custom Product Design Available

Specification

Shell Size 5

4 X FIBRE OPTIC

Electrical & Environmental

- 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
- 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 $+60^{\circ}\text{C}$
- Conductor Tail Size: 12 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Optical Ferrule: Ceramic
- Optical Alignment Sleeve: Ceramic
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Peek
- Conductor Tails: Spec 44 x 1.0m
- Optical Tails: Simplex ruggardised x 1.0m Terminated: ST Connectors
- O – Rings: NI70

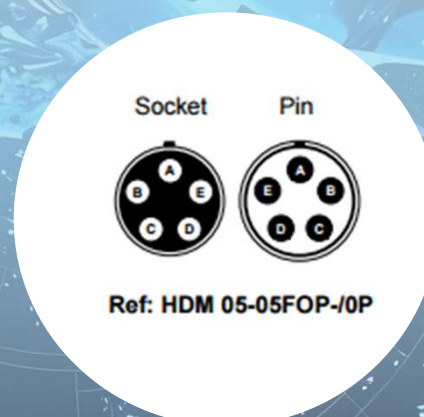
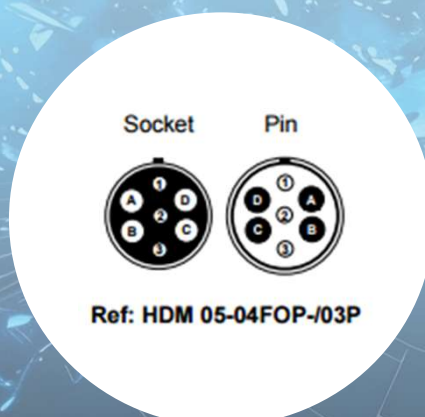
5 X FIBRE OPTIC

Electrical & Environmental

- Optical paths: 5xFibre 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 $+60^{\circ}\text{C}$
- Conductor Tail Size: N/A
- Solder Bucket Size: N/A

Standard Material Specification

- 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 1.0. Terminated: ST Connectors
- O – Rings: NI70



* Custom Product Design Available

Specification

Shell Size 5

6 X FIBRE OPTIC

Electrical & Environmental

- Optical paths: 6xFibre 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 $+60^{\circ}\text{C}$
- Conductor Tail Size: N/A
- Solder Bucket Size: N/A

Standard Material Specification

- 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

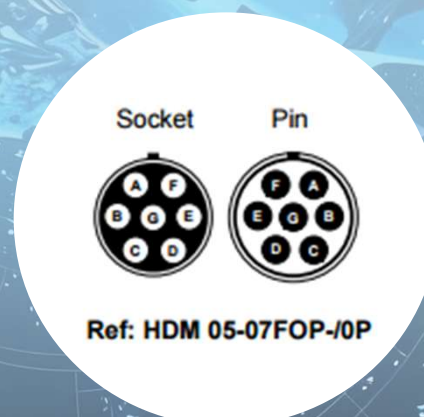
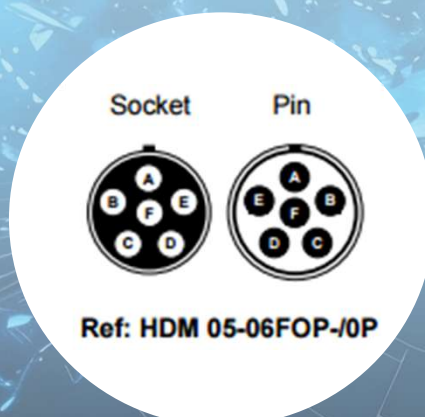
7 X FIBRE OPTIC

Electrical & Environmental

- Optical paths: 7xFibre 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 $+60^{\circ}\text{C}$
- Conductor Tail Size: N/A
- Solder Bucket Size: N/A

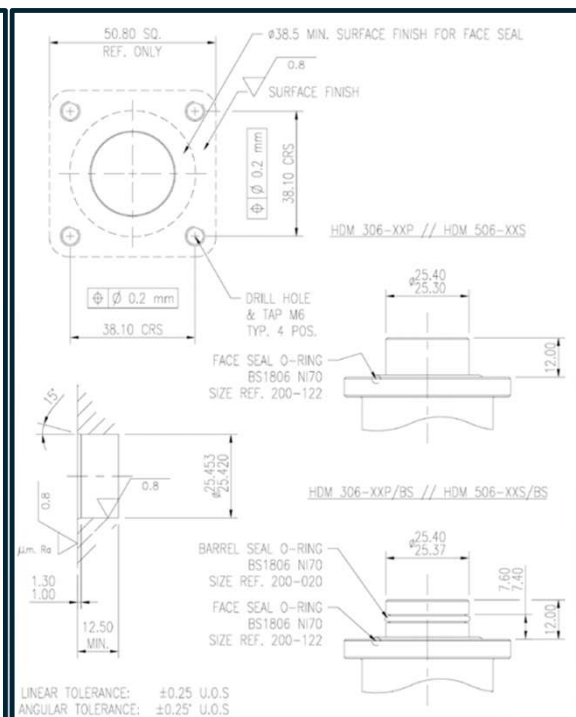
Standard Material Specification

- 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



* Custom Product Design Available

Mechanical Details & Mounting Configurations



Specification

Shell Size 6

2 X FIBRE OPTIC

Electrical & Environmental

- Optical paths: 2xFibre Optic (Multi/Single Mode)
- Typical 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
- Contact to Body IR: $> 1,000$ MOhms @ 1,000 V dc
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20°C to $+60^{\circ}\text{C}$
- Conductor Tail Size: 12 AWG
- Solder Bucket Size: 2.5 mm dia

4 X FIBRE OPTIC

Electrical & Environmental

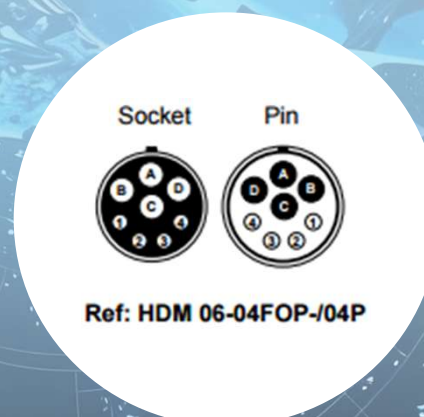
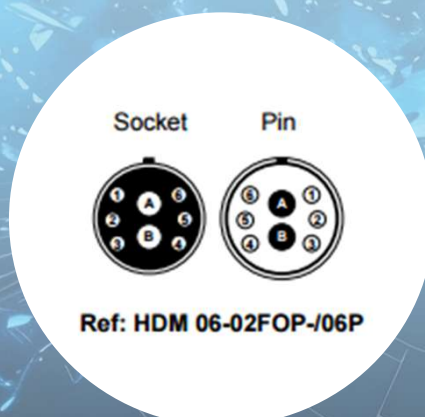
- Optical paths: 4xFibre Optic (Multi/Single Mode)
- Typical Insertion Loss: ≤ 0.5 dB
- Typical (SM) Back Reflection: < -30 dB return loss
- Pin Current Rating: 20 Amps
- Pin Voltage Rating: 1,000 V rms
- Contact to Contact IR: $> 1,000$ MOhms @ 1,000 V dc
- Contact to Body IR: $> 1,000$ MOhms @ 1,000 V dc
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20°C to $+60^{\circ}\text{C}$
- Conductor Tail Size: 12 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Optical Ferrule: Ceramic
- Optical Alignment Sleeve: Ceramic
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Peek
- Conductor Tails: Spec 44 x 1.0m
- Optical Tails: Simplex ruggardised x 1.0m Terminated: ST Connectors
- O – Rings: NI70

Standard Material Specification

- 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 1.0. Terminated: ST Connectors
- O – Rings: NI70



* Custom Product Design Available

Specification

Shell Size 6

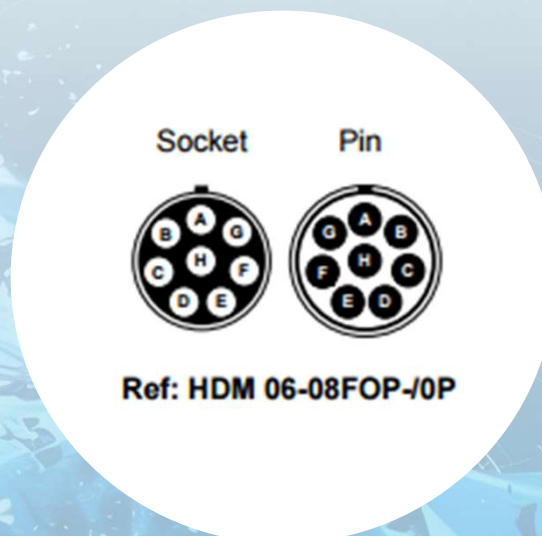
8 X FIBRE OPTIC

Electrical & Environmental

- Optical paths: 8xFibre 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 $+60^{\circ}\text{C}$
- Conductor Tail Size: N/A
- Solder Bucket Size: N/A

Standard Material Specification

- 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 ruggedised x 1.0m Terminated: ST Connectors
- O – Rings: NI70



* Custom Product Design Available

Specification

Shell Size 8

2 X FIBRE OPTIC

Electrical & Environmental

- Optical paths: 2xFibre Optic (Multi/Single Mode)
- Typical 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
- Contact to Body IR: $> 1,000$ MOhms @ 1,000 V dc
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20°C to $+60^{\circ}\text{C}$
- Conductor Tail Size: 12 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Optical Ferrule: Ceramic
- Optical Alignment Sleeve: Ceramic
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Peek
- Conductor Tails: Spec 44 x 1.0m
- Optical Tails: Simplex ruggardised x 1.0m Terminated: ST Connectors
- O – Rings: NI70

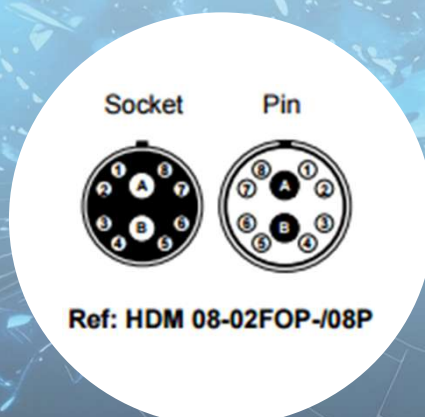
3 X FIBRE OPTIC

Electrical & Environmental

- Optical paths: 3xFibre Optic (Multi/Single Mode)
- Typical 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
- Contact to Body IR: $> 1,000$ MOhms @ 1,000 V dc
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20°C to $+60^{\circ}\text{C}$
- Conductor Tail Size: 12 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Optical Ferrule: Ceramic
- Optical Alignment Sleeve: Ceramic
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Peek
- Conductor Tails: Spec 44 x 1.0m
- Optical Tails: Simplex ruggardised x 1.0m Terminated: ST Connectors
- O – Rings: NI70



* Custom Product Design Available

Specification

Shell Size 8

4 X FIBRE OPTIC

Electrical & Environmental

- 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
- 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 $+60^{\circ}\text{C}$
- Conductor Tail Size: 12 AWG
- Solder Bucket Size: 2.5 mm dia

4 X FIBRE OPTIC

Electrical & Environmental

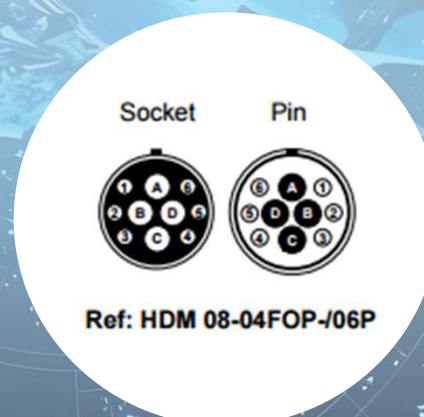
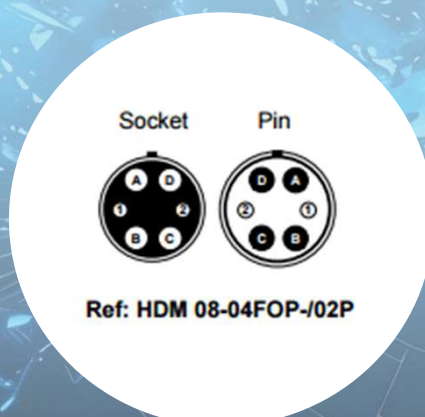
- Optical paths: 4xFibre Optic (Multi/Single Mode)
- Typical Insertion Loss: ≤ 0.5 dB
- Typical (SM) Back Reflection: < -30 dB return loss
- Pin Current Rating: 20 Amps
- Pin Voltage Rating: 1,000 V rms
- Contact to Contact IR: $> 1,000$ MOhms @ 1,000 V dc
- Contact to Body IR: $> 1,000$ MOhms @ 1,000 V dc
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20°C to $+60^{\circ}\text{C}$
- Conductor Tail Size: 12 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Optical Ferrule: Ceramic
- Optical Alignment Sleeve: Ceramic
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Peek
- Conductor Tails: Spec 44 x 1.0m
- Optical Tails: Simplex ruggardised x 1.0m Terminated: ST Connectors
- O – Rings: NI70

Standard Material Specification

- 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 1.0. Terminated: ST Connectors
- O – Rings: NI70



* Custom Product Design Available

Specification

Shell Size 8

4 X FIBRE OPTIC

Electrical & Environmental

- 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
- 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 $+60^{\circ}\text{C}$
- Conductor Tail Size: 12 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Optical Ferrule: Ceramic
- Optical Alignment Sleeve: Ceramic
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Peek
- Conductor Tails: Spec 44 x 1.0m
- Optical Tails: Simplex ruggardised x 1.0m Terminated: ST Connectors
- O – Rings: NI70

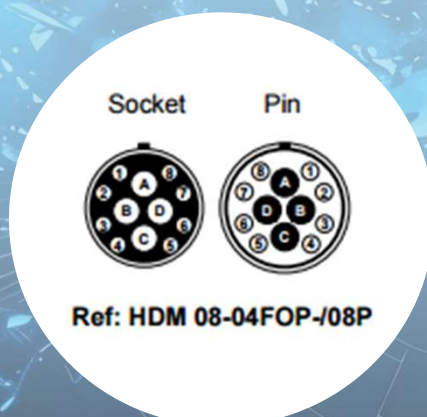
6 X FIBRE OPTIC

Electrical & Environmental

- Optical paths: 6xFibre Optic (Multi/Single Mode)
- Typical 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
- Contact to Body IR: $> 1,000$ MOhms @ 1,000 V dc
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20°C to $+60^{\circ}\text{C}$
- Conductor Tail Size: 12 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

- 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



* Custom Product Design Available

Specification

Shell Size 8

6 X FIBRE OPTIC

Electrical & Environmental

- Optical paths: 6xFibre Optic (Multi/Single Mode)
- Typical 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
- Contact to Body IR: $> 1,000$ MOhms @ 1,000 V dc
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20°C to $+60^{\circ}\text{C}$
- Conductor Tail Size: 12 AWG
- Solder Bucket Size: 2.5 mm dia

6 X FIBRE OPTIC

Electrical & Environmental

- Optical paths: 6xFibre Optic (Multi/Single Mode)
- Typical 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
- Contact to Body IR: $> 1,000$ MOhms @ 1,000 V dc
- Mated Depth Rating: 3,450 MSW
- Temperature Rating: -20°C to $+60^{\circ}\text{C}$
- Conductor Tail Size: 12 AWG
- Solder Bucket Size: 2.5 mm dia

Standard Material Specification

- Body: 316 Stainless Steel
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Optical Ferrule: Ceramic
- Optical Alignment Sleeve: Ceramic
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Peek
- Conductor Tails: Spec 44 x 1.0m
- Optical Tails: Simplex ruggardised x 1.0m Terminated: ST Connectors
- O – Rings: NI70

Standard Material Specification

- Body: 316 Stainless Steel
- Fix Ring: Aluminium Silicon Bronze
- Back Shell: N/A
- Optical Ferrule: Ceramic
- Optical Alignment Sleeve: Ceramic
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Insert Material: Peek
- Conductor Tails: Spec 44 x 1.0m
- Optical Tails: Simplex ruggardised x 1.0m Terminated: ST Connectors
- O – Rings: NI70



* Custom Product Design Available

Specification

Shell Size 8

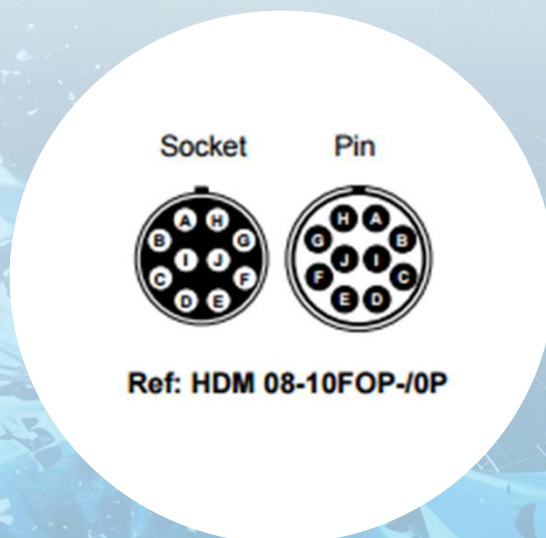
10 X FIBRE OPTIC

Electrical & Environmental

- 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 Body IR: N/A
- Mated Depth Rating: N/A
- Temperature Rating: -20°C to $+60^{\circ}\text{C}$
- Conductor Tail Size: N/A
- Solder Bucket Size: N/A

Standard Material Specification

- 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 ruggedised x 1.0m
Terminated: ST Connectors
- O – Rings: NI70



* Custom Product Design Available

HRC (Hydro Group Renewable) Connector



* Custom Product Design Available

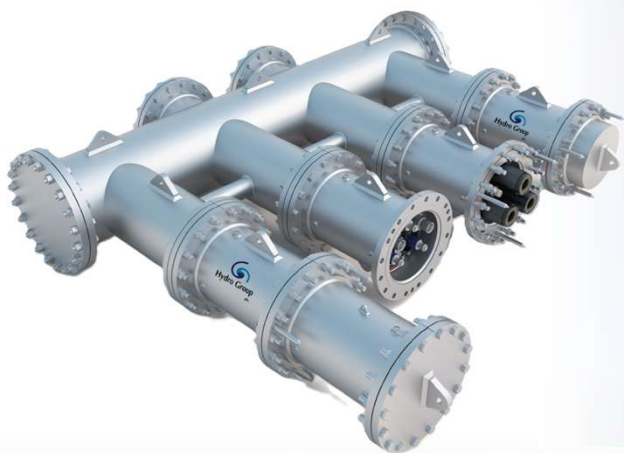
Features

- Topside Dry-Mate
- Fibre-Optic, Loop Back, Weak Link
- Suitable for free flooding or dry cable environments
- Maintenance free design
- Insulation: No liquid insulating medium required
- Durability: 35-year operational lifespan
- Fiber Capacity: Maximum of 36 fibres
- Performance: Partial discharge < 10 pC
- Operational Depth: Maximum depth of 100 m
- Rated Voltage: 36KV / 66KV to 72.5KV max
- Rated design voltage to ground: 36KV
- Max. Current Rating, same as cable: Up to 1250Amp
- Max. Thermal Short Circuit Current: 60KA/1 sec
- Max. Dynamic Short Circuit Current: 150KA

Contact System

- Material: Copper (Cu) or Aluminum (Al)
- RM stranded circular conductor:
Diameter over conductor: 17.5–36 mm
Conductor size: 35–800 mm²
- RE solid circular conductor:
Diameter over conductor: 10.5–36 mm
Conductor size: 95–1000 mm²
- RF super flexible conductor:
Diameter over conductor: 6.5–29.5 mm
Conductor size: 25–500 mm²

PDH (Power Distribution Hub)



* Custom Product Design Available

Features

- Modular junction box design allows multiple generator cables to be terminated to a single shore cable
- Direct interface with Hydro Group's HRC range
- 35- year operational lifespan
- Cost effective solution
- Can be deployed onto a range of seabed conditions
- Maintenance free
- No liquid insulating medium
- Low environmental impact
- Corrosion protection
- Wide variety of configurations available (including electrical and optical auxiliaries)
- Long term installation infrastructure
- Dual water ingress protection features throughout for reliable sealing
- Type tested MV components with a long history of service in power applications
- Dynamic cable design and manufacture
- Bend stiffeners / restrictors and strain terminations designed to suit customers' cables. installation and offshore support
- Third party qualification available on request



HYB (Hydro Group Hybrid) Connector

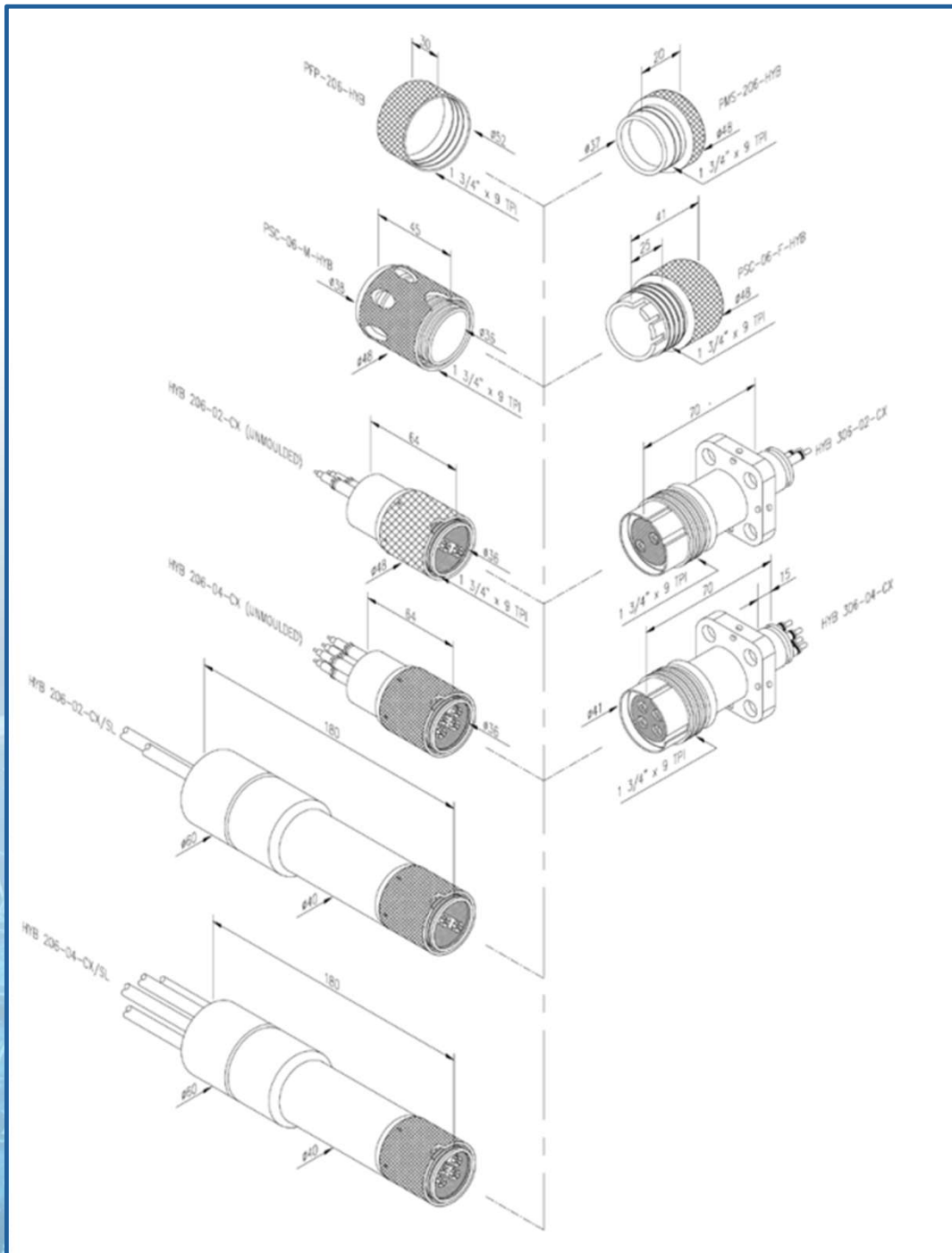


Features

- Proven Shock Tested Design
- Metal Key provides positive scoop proof connection
- Fully pressure blocked 50-Ohm and 75-Ohm coaxial inserts
- Coaxial insert trace tested to 1.6 GHz
- Tested to 86 Bar open face pressure
- Metal Shell Construction
- Bulkhead Mount and Panel Mount Designs available as standard
- Mounting O – Ring seals and optional Barrel seals 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

* Custom Product Design Available

Shell Size 6 Mechanical Details



* Custom Product Design Available

Specification

Shell Size 6

Surface Mateable Coaxial Connector, Metal Keyed

Electrical & Environmental

- Coax Impedance: 50 Ohm or 75 Ohm
- Coax Power Rating: 120 Watts
- Coax Freq'y Rating: 1,600 Mhz
- 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: 1,000 MSW
- Temperature Rating: -20 °C to +60 °C
- Coax Tail Size: Contact office for full list
- Coax Connection: To fit SMC Plug

Standard Material Specification

- Body: 316 Stainless Steel
- 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
- O – Rings: NI70

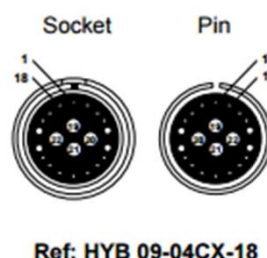
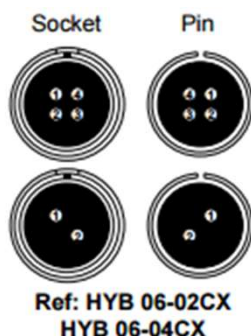
Surface Mateable Coaxial & Electrical Hybrid Connector, Metal Keyed

Electrical & Environmental

- Coax Impedance: 50 Ohm or 75 Ohm
- Coax Power Rating: 120 Watts
- Coax Freq'y Rating: 1,600 Mhz
- Pin Current Rating: 4x25 Amps & 14x10 Amps
- Pin Voltage Rating: 1,000 Volts 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: 1,000 MSW
- Temperature Rating: -20 °C to +60 °C
- Coax Tail Size: Contact office for full list
- Solder Bucket Size: 4x4.0mm dia, 14x2.5 mm dia
- Coax Connection: To fit SMC Plug

Standard Material Specification

- Body: Aluminium Nickel Bronze
- Fix Ring: Aluminium Nickel Bronze
- Back Shell: N/A
- Contact Pins: CZ121/Au
- Contact Sockets: CZ121/Au
- Coax Pins: BeCu/Au
- Coax Sockets: BeCu/Au
- Insert Material: Neoprene
- Conductor Tails: Spec 44x1.0 Metre
- Coax Tails: 1 metre standard
- O – Rings: NI70



* Custom Product Design Available

HRM (Hydro Rubber Moulded) Connector



Features

- Designed for reliable connection and disconnection in subsea environments.
- Extensively tested both internally and externally, with a strong track record on national and international projects.
- Features a high-integrity rubber moulded design suitable for harsh environments.
- Depth rating up to 600 bar
- Fully open-face pressure sealed to ensure performance under extreme subsea conditions.
- Each connector includes Acetal dust caps as standard to prevent contamination.
- Pin Densities: Available in configurations ranging from 1 to 70 ways.
- Shell Sizes: Available in 5 standard shell sizes to fit various application requirements.
- Gender Options: Standard and reverse gender configurations available for safe system design

Mounting & Terminations

- Versatile Mounting: Bulkhead Mount and Panel Mount designs available as standard.
- Sealing Options: Features mounting O-ring face seals, with optional barrel seals available.
- Advanced Termination: Options include fully water-blocked, mechanical strain terminations, and oil-filled configurations.

* Custom Product Design Available

Specification

Electrical & Environmental

- Voltage Rating: Up to 3,300 Volts RMS.
- Current Rating: Up to 750 Amps.
- Insulation Resistance (IR): >1,000 MOhms @ 1,000 V dc
- Available in pin configurations ranging from 1 to 70 ways.
- Shell Sizes: Available in 5 standard shell sizes to fit various application requirements.
- Gender Options: Standard and reverse gender configurations available for safe system design.
- Temperature Rating: Rated for operation from -20°C to +60°C

Standard Material Specification

- Shell/Body Materials:
Standard: 316 Stainless Steel.
Optional: Titanium, Aluminium Silicon Bronze, or Nickel Aluminium Bronze.
- Moulding Options: Polyurethane (PU) or Polyethylene (PE).
- Contact Inserts: Neoprene.
- Contact Pins & Sockets: Gold-plated CZ121 (CZ121/Au).
- O-Rings: N170 Nitrile.
- Dust Caps: Acetal (supplied as standard).

Categories

- **Circular Connector**
- **Low-Profile Connector**
- **Metal Shell 1500**
- **Metal Shell 2000**
- **Power Connector**
- **Ethernet Connector**
- **Power Ethernet Connector**
- **Ethernet Metal Shell 2013**
- **Penetrator Connector**
- **Diving Connector**
- **Rubber Molded Connector**
- **Metal Shell G**
- **Metal Shell L**
- **Metal Shell S**

* Custom Product Design Available

Circular Connector



Product Photo							
Discription	Mini 1 Contact	Bulkhead Connector (SCBH)	Bulkhead Connector (SCBH)	Bulkhead Connector (SCBH)	Inline Connector (SCIL)	Inline Connector (SCIL)	Inline Connector (SCIL)
Contacts	1	2, 3, 4, 5	6, 8, 10	12, 16	2, 3, 4, 5	6, 8, 10	12, 16
Face View (Male)							
Max. voltage	600 VDC	600 VDC	600 VDC	600 VDC	600 VDC	600 VDC	600 VDC
Current rating @contact	10A	10A	10A	10A	10A	10A	10A
Max. current @connector		30A	50A	60A	30A	50A	60A
Insulation resistance	>200 Mohm	>200 Mohm	>200 Mohm	>200 Mohm	>200 Mohm	>200 Mohm	>200 Mohm
Contact resistance	<0.01 ohm	<0.01 ohm	<0.01 ohm	<0.01 ohm	<0.01 ohm	<0.01 ohm	<0.01 ohm
Wet mating	>500	>500	>500	>500	>500	>500	>500
Depth rating	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)
Temperature rating	-40 to 60°C	-40 to 60°C	-40 to 60°C	-40 to 60°C	-40 to 60°C	-40 to 60°C	-40 to 60°C

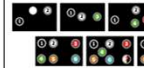
Product Photo							
Discription	Attachable Connector (SCAT)	Overmold Connector (SCOM)	Overmold Connector (SCOM)	Overmold Connector (SCOM)	Mini Bulkhead Connector (MCBH)	Mini Bulkhead Connector (MCBH)	Mini Bulkhead Right Angle Connector (MCBHRA)
Contacts	6, 8	2,3,4,5	6, 8, 10	12, 16	2, 3, 4, 5, 6, 8	10, 12, 16	2, 3, 4, 5, 6, 8
Face View (Male)							
Max. voltage	600 VDC	600 VDC	600 VDC	600 VDC	300 VDC	300 VDC	300 VDC
Current rating @contact	10A	10A	10A	10A	2,3,4 contacts 10A 5,6, 8 contacts 5A	5A	2,3,4 contacts 10A 5,6,8 contacts 5A
Max. current @connector	50A	30A	50A	60A	20A	20A	20A
Insulation resistance	>200 Mohm	>200 Mohm	>200 Mohm	>200 Mohm	>200 Mohm	>200 Mohm	>200 Mohm
Contact resistance	<0.01 ohm	<0.01 ohm	<0.01 ohm	<0.01 ohm	<0.01 ohm	<0.01 ohm	<0.01 ohm
Wet mating	>500	>500	>500	>500	>500	>500	>500
Depth rating	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)
Temperature rating	-40 to 60°C	-40 to 60°C	-40 to 60°C	-40 to 60°C	-40 to 60°C	-40 to 60°C	-40 to 60°C

Product Photo						
Discription	Mini Inline Connector (MCIL)	Mini Inline Connector (MCIL)	Mini Overmold Connector (MCOM)	Mini Overmold Connector (MCOM)	MC Dummy (MCDL)	Dummy (SCDL)
Contacts	2, 3, 4, 5, 6, 8	10, 12, 16	2, 3, 4, 5, 6, 8	10, 12, 16	2, 3, 4, 5, 6, 8, 10,12, 16	2, 3, 4, 5, 6, 8, 10, 12, 16
Face View (Male)						
Max. voltage	300 VDC	300 VDC	300 VDC	300 VDC		
Current rating @contact	5A	5A	5A	5A		
Max. current @connector	20A	30A	20A	20A		
Insulation resistance	>200 Mohm	>200 Mohm	>200 Mohm	>200 Mohm		
Contact resistance	<0.01 ohm	<0.01 ohm	<0.01 ohm	<0.01 ohm		
Wet mating	>500	>500	>500	>500		
Depth rating	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)		
Temperature rating	-40 to 60°C	-40 to 60°C	-40 to 60°C	-40 to 60°C		

* Custom Product Design Available

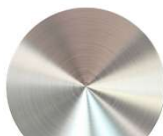
Low-Profile Connector

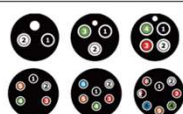
Product Photo							
Discription	Bulkhead Connector (LPBH)	Bulkhead Connector (LPBH)	Bulkhead Connector (LPBH)	Bulkhead Connector (LPBH)	Bulkhead Connector (LPBH)	Inline Connector (LPIL)	Inline Connector (LPIL)
Contacts	2	3, 4, 5	7	9	12	2	3, 4, 5
Face View (Male)							
Max. voltage	600 VDC	600 VDC	600 VDC	600 VDC	600 VDC	600 VDC	600 VDC
Current rating @contact	10A	10A	10A	10A	10A	10A	10A
Max. current @connector	20A	40A	40A	40A	40A	20A	40A
Insulation resistance	>200 Mohm	>200 Mohm	>200 Mohm	>200 Mohm	>200 Mohm	>200 Mohm	>200 Mohm
Contact resistance	<0.01 ohm	<0.01 ohm	<0.01 ohm	<0.01 ohm	<0.01 ohm	<0.01 ohm	<0.01 ohm
Wet mating	>500	>500	>500	>500	>500	>500	>500
Depth rating	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)
Temperature rating	-40 to 60°C	-40 to 60°C	-40 to 60°C	-40 to 60°C	-40 to 60°C	-40 to 60°C	-40 to 60°C

Product Photo						
Discription	Inline Connector (LPIL)	Inline Connector (LPIL)	Inline Connector (LPIL)	Mini Bulkhead Connector (LPMCBH)	Mini Inline Connector (LPMCIL)	Mini Overmold Connector (LPMCOM)
Contacts	7	9	12	2, 3, 4, 5, 6, 7, 8	2, 3, 4, 5, 6, 7, 8	2, 3, 4, 5, 6
Face View (Male)						
Max. voltage	600 VDC	600 VDC	600 VDC	300 VDC	300 VDC	300 VDC
Current rating @contact	10A	10A	10A	5A	5A	5A
Max. current @connector	40A	40A	40A	20A	20A	20A
Insulation resistance	>200 Mohm	>200 Mohm	>200 Mohm	>200 Mohm	>200 Mohm	>200 Mohm
Contact resistance	<0.01 ohm	<0.01 ohm	<0.01 ohm	<0.01 ohm	<0.01 ohm	<0.01 ohm
Wet mating	>500	>500	>500	>500	>500	>500
Depth rating	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)
Temperature rating	-40 to 60°C	-40 to 60°C	-40 to 60°C	-40 to 60°C	-40 to 60°C	-40 to 60°C

* Custom Product Design Available

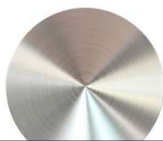
Metal Shell 1500 / 2000

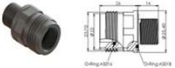
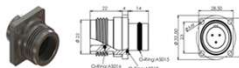
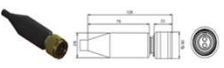
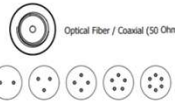
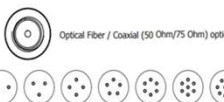


Product Photo			
Discription	Mini Hex Connector (MCHX)	Mini Flange Connector (MCFG)	Flange Connector
Contacts	2, 3, 4, 5, 6, 8	2, 3, 4, 5, 6, 8	2, 3, 4, 10(mini), 12 (mini)
Face View (Male)			
Max. voltage	300 VDC	300 VDC	2,3,4 contacts 600 VDC 10,12 contacts 300VDC
Current rating @contact	2,3,4 contacts 10A 5,6,8 contacts 5A	2,3,4 contacts 10A 5,6,8 contacts 5A	2,3,4 contacts 10A 10,12 contacts 5A
Max. current @connector	20A	20A	30A
Insulation resistance	>200 Mohm	>200 Mohm	>200 Mohm
Contact resistance	<0.01 ohm	<0.01 ohm	<0.01 ohm
Wet mating	>500	>500	>500
Depth rating	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)
Temperature rating	-40 to 60°C	-40 to 60°C	-40 to 60°C

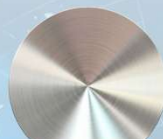
* Custom Product Design Available

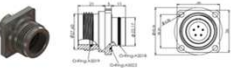
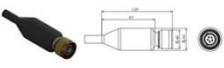
Metal Shell G



Product Photo				
Discription	Metal Shell G Bulkhead Connector (MSG-BCR)	Metal Shell G Flange Connector (MSG-FCR)	Metal Shell G Coupling Connector (MSG-CCP)	Metal Shell G Coupling Right Angel (MSG-CCP-RA)
Contacts	1, 2, 3, 4, 5, 7, 8	1, 2, 3, 4, 5, 7, 8	1, 2, 3, 4, 5, 7, 8	1, 2, 3, 4, 5, 7, 8
Face View (Male)	 Optical Fiber / Coaxial (50 Ohm/75 Ohm) optional	 Optical Fiber / Coaxial (50 Ohm/75 Ohm) optional	 Optical Fiber / Coaxial (50 Ohm/75 Ohm) optional	 Optical Fiber / Coaxial (50 Ohm/75 Ohm) optional
Max. voltage	2, 3 contacts 600 VDC 4,5,6,7,8 contacts 300 VDC	2, 3 contacts 600 VDC 4,5,6,7,8 contacts 300 VDC	2, 3 contacts 600 VDC 4,5,6,7,8 contacts 300 VDC	2, 3 contacts 600 VDC 4,5,6,7,8 contacts 300 VDC
Current rating @contact	2,3 contacts 3A~4A 4,5,6,7,8 contacts 2A~3A	2,3 contacts 3A~4A 4,5,6,7,8 contacts 2A~3A	2,3 contacts 3A~4A 4,5,6,7,8 contacts 2A~3A	2,3 contacts 3A~4A 4,5,6,7,8 contacts 2A~3A
Max. current @connector	20A	20A	20A	20A
Insulation resistance	>200 Mohm	>200 Mohm	>200 Mohm	>200 Mohm
Contact resistance	<0.01 ohm	<0.01 ohm	<0.01 ohm	<0.01 ohm
Wet mating	NA	NA	NA	NA
Depth rating	600 bar	600 bar	600 bar	600 bar
Temperature rating	-40 to 60°C	-40 to 60°C	-40 to 60°C	-40 to 60°C

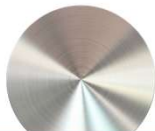
Metal Shell L

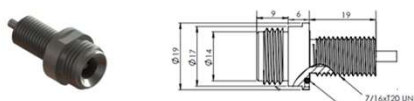
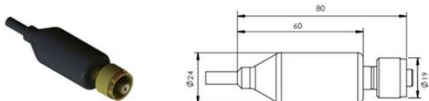


Product Photo			
Discription	Metal Shell L Bulkhead Connector (MSL-BCR)	Metal Shell L Flange Connector (MSL-FCR)	Metal Shell L Coupling Connector (MSL-CCP)
Contacts	2, 3, 5, 7, 8, 10, 12, 16	2, 3, 5, 7, 8, 10, 12, 16	2, 3, 5, 7, 8, 10, 12, 16
Face View (Male)			
Max. voltage	2, 3, 5, 7, 8 contacts 600 VDC 10, 12, 16 contacts 300 VDC	2, 3, 5, 7, 8 contacts 600 VDC 10, 12, 16 contacts 300 VDC	2, 3, 5, 7, 8 contacts 600 VDC 10, 12, 16 contacts 300 VDC
Current rating @contact	2, 3, 4, 5, 7, 8 contacts 3A~4A 10, 12, 16 contacts 2A~3A	2, 3, 4, 5, 7, 8 contacts 3A~4A 10, 12, 16 contacts 2A~3A	2, 3, 4, 5, 7, 8 contacts 3A~4A 10, 12, 16 contacts 2A~3A
Max. current @connector	10A	10A	10A
Insulation resistance	>200 Mohm	>200 Mohm	>200 Mohm
Contact resistance	<0.01 ohm	<0.01 ohm	<0.01 ohm
Wet mating	NA	NA	NA
Depth rating	600 bar	600 bar	600 bar
Temperature rating	-40 to 60°C	-40 to 60°C	-40 to 60°C

* Custom Product Design Available

Metal Shell S



Product Photo		
Discription	Metal Shell S Single Fiber Optic Connector (MSS-OP-BCR)	Metal Shell S Single Fiber Optic Connector (MSS-OP-CCP)
Contacts	1	1
Face View		
Insertion loss	< 0.3 dB	< 0.3 dB
Typically	< 0.5 dB	< 0.5 dB
Wet mating	NA	NA
Depth rating	600 bar	600 bar
Temperature rating	-40 to 60°C	-40 to 60°C

* Custom Product Design Available

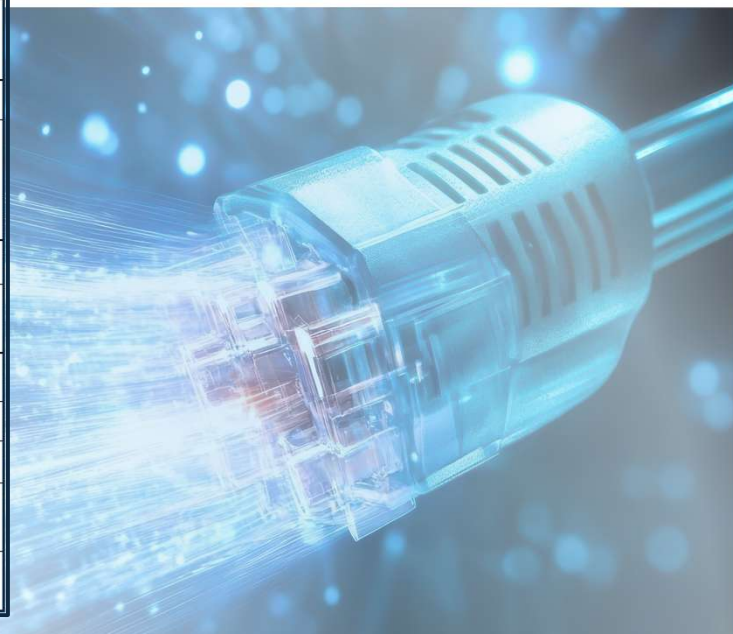
Power Connector

Product Photo						
Discription	Battery Bulkhead Connector (PBBH)	Power Battery Inline Connector (PBIL)	High Power Bulkhead Connector (HPBH)	High Power Inline Connector (HPIL)	Dummy for Power Battery Connector (PBDC)	Dummy for High Power Connector (HPDC)
Contacts	2, 3, 4	2, 3, 4	4	4	2, 3, 4	4
Face View (Male)						
Max. voltage	600 VDC	600 VDC	600 VDC	600 VDC		
Current rating @contact	25A	25A	50A	50A		
Max. current @connector	50A	50A	200A	200A		
Insulation resistance	>200 Mohm	>200 Mohm	>200 Mohm	>200 Mohm		
Contact resistance	<0.01 ohm	<0.01 ohm	<0.01 ohm	<0.01 ohm		
Wet mating	>500	>500	>500	>500		
Depth rating	600 bar	600 bar	600 bar	600 bar		
Temperature rating	-40 to 60°C	-40 to 60°C	-40 to 60°C	-40 to 60°C		

* Custom Product Design Available

Ethernet Connector

Product Photo		
Discription	Mini Bulkhead Connector (MCBH8E)	Mini Inline Connector (MCIL8E)
Contacts	8	8
Face View (Male)		
Max. voltage	250 VDC	250 VDC
Data Rate	>1 Gbit/s	>1 Gbit/s
Insulation resistance	>200 Mohm	>200 Mohm
Contact resistance	<0.01 ohm	<0.01 ohm
Wet mating	>500	>500
Depth rating	600 bar	600 bar
Temperature rating	-40 to 60°C	-40 to 60°C

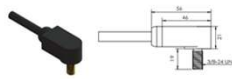


Power Ethernet Connector

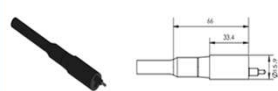
Product Photo					
Discription	Mini Bulkhead Connector (MCBH13E)	Mini Inline Connector (MCIL13E)	Low-Profile Bulkhead Connector (LPBHE)	Low-Profile Inline Connector (LPIL13E)	Flange Connector
Contacts	13	13	13	13	13
Face View (Male)					
Voltage rating	600 V DC/AC rms	600 V DC/AC rms	600 V DC/AC rms	600 V DC/AC rms	600 V DC/AC rms
Voltage rating on data wire	250 V DC/AC rms	250 V DC/AC rms	250 V DC/AC rms	250 V DC/AC rms	250 V DC/AC rms
Current rating on power wire	4 A per contact (max 16 A per connector)	4 A per contact (max 16 A per connector)	4 A per contact (max 16 A per connector)	4 A per contact (max 16 A per connector)	4 A per contact (max 16 A per connector)
Data Rate	>1 Gbit/s (up to 75m)	>1 Gbit/s (up to 75m)	>1 Gbit/s (up to 75m)	>1 Gbit/s (up to 75m)	>1 Gbit/s (up to 75m)
Insulation resistance	>200 Mohm	>200 Mohm	>200 Mohm	>200 Mohm	>200 Mohm
Contact resistance	<0.01 ohm	<0.01 ohm	<0.01 ohm	<0.01 ohm	<0.01 ohm
Wet mating	>500	>500	>500	>500	>500
Depth rating	600 bar	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar (300 bar for peek)	600 bar
Temperature rating (water)	-4 to 60°C	-4 to 60°C	-4 to 60°C	-4 to 60°C	-4 to 60°C
Temperature rating (air)	-40 to 60℃	-40 to 60℃	-40 to 60°C	-40 to 60°C	-40 to 60℃

* Custom Product Design Available

Penetrator Connector

Product Photo				
Discription	A type (PNTRA)	B type (PNTRB)	C type (PNTRC)	D type (PNTRD)
Contacts	2, 3, 4, 5, 6	2, 3, 4, 5, 6, 8	2, 3, 4, 5, 6, 8	2, 3, 4, 5, 6, 8
Max. voltage	300/600 VDC depends on cable	300/600 VDC depends on cable	300/600 VDC depends on cable	300/600 VDC depends on cable
Current rating @contact	Depends on wire and conductor size	Depends on wire and conductor size	Depends on wire and conductor size	Depends on wire and conductor size
Max. current @connector	Depends on wire and conductor size	Depends on wire and conductor size	Depends on wire and conductor size	Depends on wire and conductor size
Insulation resistance	>200 Mohm	>200 Mohm	>200 Mohm	>200 Mohm
Depth rating	600 bar	600 bar	600 bar	600 bar
Temperature rating	-40 to 60°C	-40 to 60°C	-40 to 60°C	-40 to 60°C

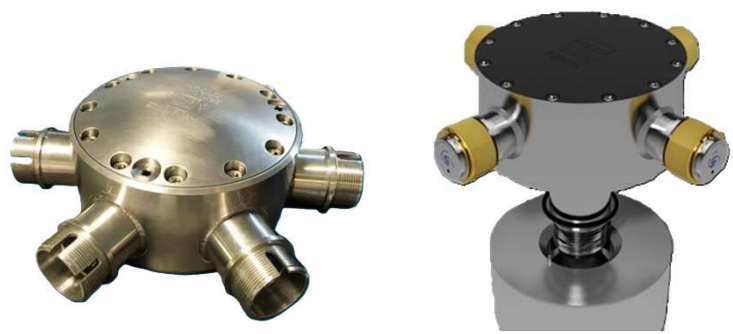
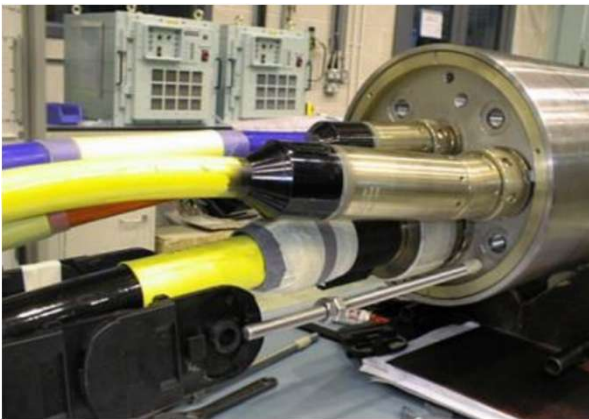
Diving Connector

Product Photo	
Discription	2 Pole Inline Connector (EO)
Contacts	2
Face View (Male)	
Max. voltage	600 VDC
Max. current @connector	12A
Insulation resistance	>200 Mohm
Depth rating	600 bar
Temperature rating	-40 to 60°C

Rubber Molded Connector

Product Photo		
Discription	G size Inline Cable (RG)	K size Inline Cable (RK)
Contacts	2, 3, 4	5
Face View (Male)		
Max. voltage	600 VDC	600 VDC
Current rating @contact	5A	10A
Max. current @connector	20A	30A
Insulation resistance	>200 Mohm	>200 Mohm
Depth rating	600 bar	600 bar
Temperature rating	-40 to 60°C	-40 to 60°C

* Custom Product Design Available

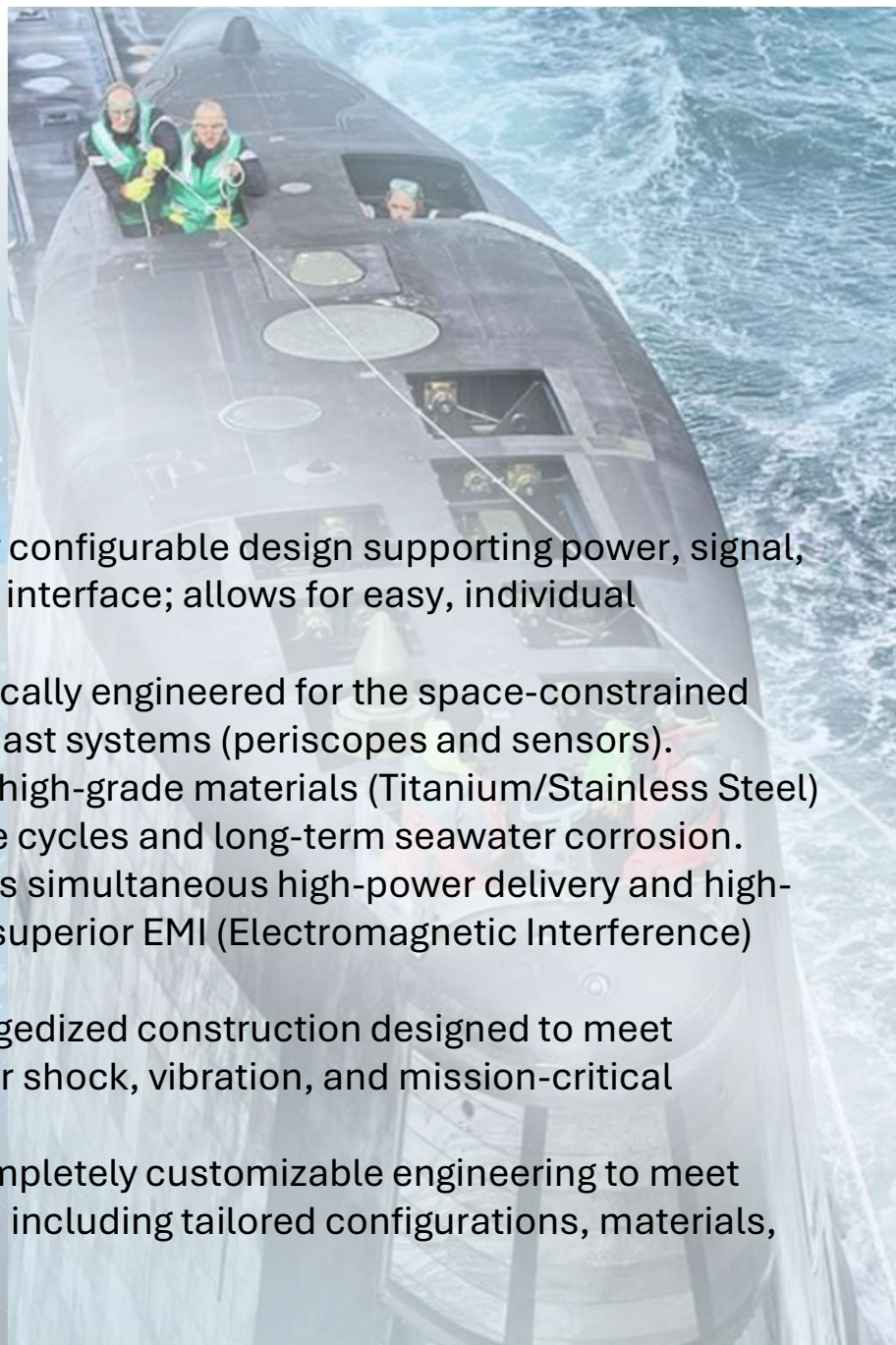


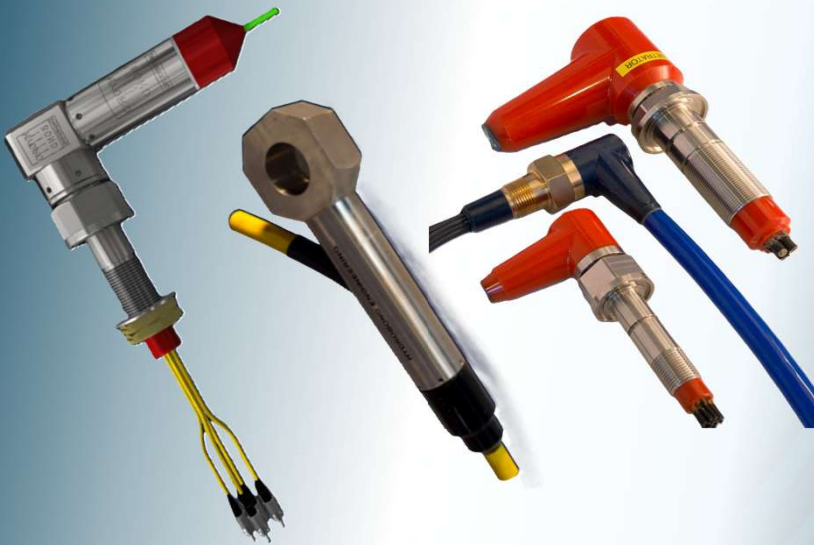
Hydro Group SDM Series Multi-Way Pressure Hull Penetrator (Spider Configuration)



Features

- **Modular Architecture:** Highly configurable design supporting power, signal, fiber optics, and RF in a single interface; allows for easy, individual component maintenance.
- **Compact Integration:** Specifically engineered for the space-constrained environments of submarine mast systems (periscopes and sensors).
- **Subsea Durability:** Built with high-grade materials (Titanium/Stainless Steel) to withstand extreme pressure cycles and long-term seawater corrosion.
- **Hybrid Transmission:** Enables simultaneous high-power delivery and high-bandwidth data transfer with superior EMI (Electromagnetic Interference) shielding.
- **Naval-Grade Reliability:** Ruggedized construction designed to meet stringent military standards for shock, vibration, and mission-critical performance.
- **Full Bespoke Capability:** Completely customizable engineering to meet specific project requirements, including tailored configurations, materials, and mounting interfaces.





HPS (Hydro Penetrator Series) - Proven Technology

With a dedicated engineering team and decades of industry knowledge, Hydro Group supplies its proven HPS Penetrator Series for a range of global diving and submarine rescue vessel projects.

Features

- Robust designs, electrical, coaxial and optical
- 316 stainless steel or titanium, aluminium, etc
- Voltage ratings up to 3,000 volts RMS
- Non-magnetic versions available
- Mono directional depth rated to 1,500 MSW
- Bi-directional manned pressure vessel depth rated 6,500 MSW
- Designed to suit your working load
- Mechanical termination of the cable directly to connector back-shell or to bespoke strain bar
- Available with load transferred to outer cable diameter for use with lifting buoys and cable grips
- Designed to suit your working load
- Mechanical termination of the cable directly to connector back-shell or to bespoke strain bar
- Available with load transferred to outer cable diameter for use with lifting buoys and cable grips

* Custom Product Design Available

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