
HDM: Hydro Group Deck Mate

Surface Mateable Electrical Connectors, Metal Keyed

Hydro Group Plc has over four decades of global experience, supporting oil and gas, renewable energy and defence industry clients throughout every stage of the product lifecycle with a suite of connectivity subsea solutions.

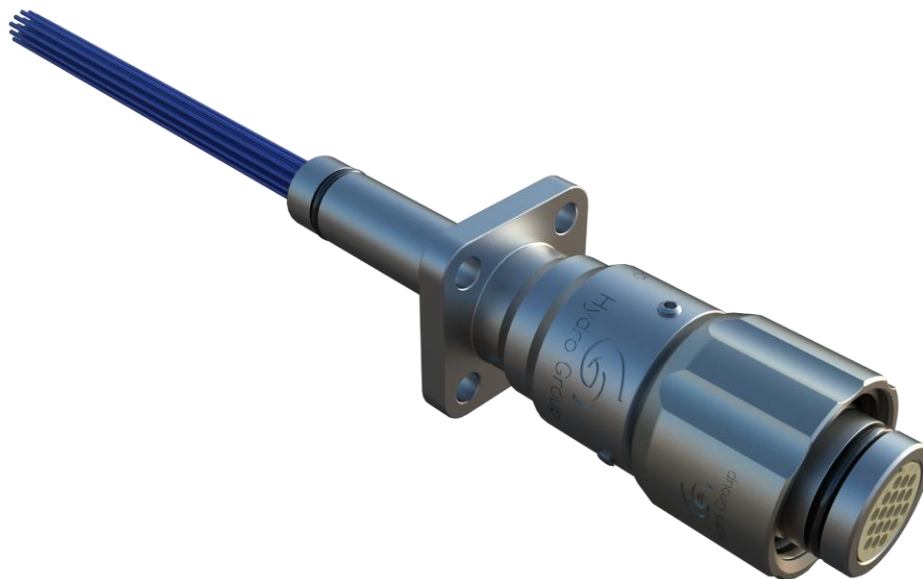
Hydro Group designs and manufactures subsea electrical and optical connectors, electrical pressure hull penetrators, cable terminations and assemblies, with installation and maintenance available.

All products are designed and engineered at the Group's global headquarters in Aberdeen, Scotland. The premises are accredited to both ISO 9001:2015 Quality Standard and ISO 14001:2015 Environmental Standard.

Hydro Deck Mate (HDM) connectors are for use in harsh subsea environments. Extensively tested in house and in the field by fully-qualified electrical engineers and technicians, the HDM range is customisable to suit your project needs.

This document contains information on socket/pin configuration options, as well as electrical, environmental and standard material specifications. Contact a Hydro Group representative to find out more about this product.

Connecting Innovation Underwater since 1982



HDM: Hydro Group Deck Mate Electrical Connectors, Metal Keyed

Key product features include, but are not limited to the following:

- Available in various shell sizes
- 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
- Pin densities from 1 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 (standard body); Titanium, Aluminium Nickel Bronze, Aluminium Silicon 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)



An HDM405, HDM304, HDM504 with Extended Barrel & HDM208

HDM: Hydro Group Deck Mate Electrical Connectors, Metal Keyed

The following charts show the socket/pin (face view) configuration of HDM connectors, together with electrical, environmental and standard material specifications.

HDM VWW – XXY / ZZ / ..

(Example: HDM105-13P/SS/L)

Connector Range: HDM, Series: 1 (Male Receptacle), Shell Size: 5, Number of Pin Contacts: 13P, Body Material: SS (Stainless Steel 316), Mould Option: L (In-line Over-mould)

(Example: HDM405-13P/BS/SS-XXM)

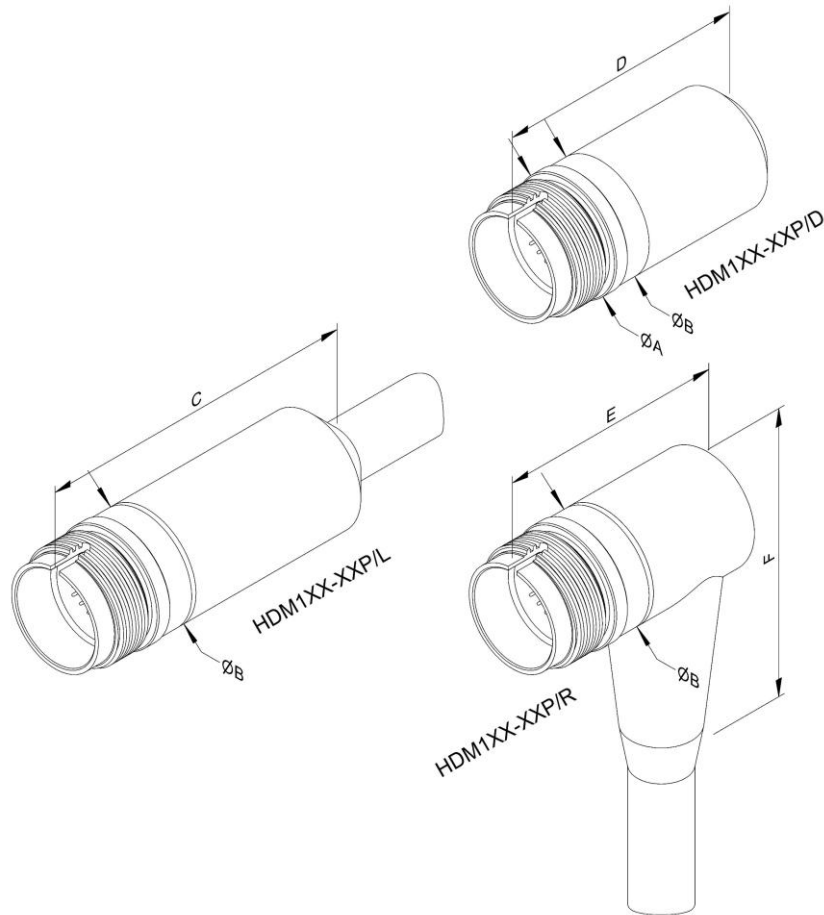
Connector Range: HDM, Series: 4 (Male Receptacle Bulkhead), Shell Size: 5, Number of Pin Contacts: 13P, Secondary Seal: BS (Barrel Sealed), Body Material: SS (Stainless Steel 316), Tail Length in Metres: XXM

HDM Part Numbering Legend

V	WW	XX	Y	BS	ZZ	..
HDM Connector Series	HDM Connector Shell Size	Number of electrical contacts	P = Pins (Male) S = Sockets (Female)	BS = Barrel Sealed Omit for standard seal	Material Selection: SS = Stainless Steel 316 NBP2 = Aluminium Nickel Bronze SB = Silicon Bronze T = Titanium (Grade 2) T5 = Titanium (Grade 5) SD = Super Duplex	Connector moulding options: L = In-line D = Dummy R = Right-angled None = No over-moulding

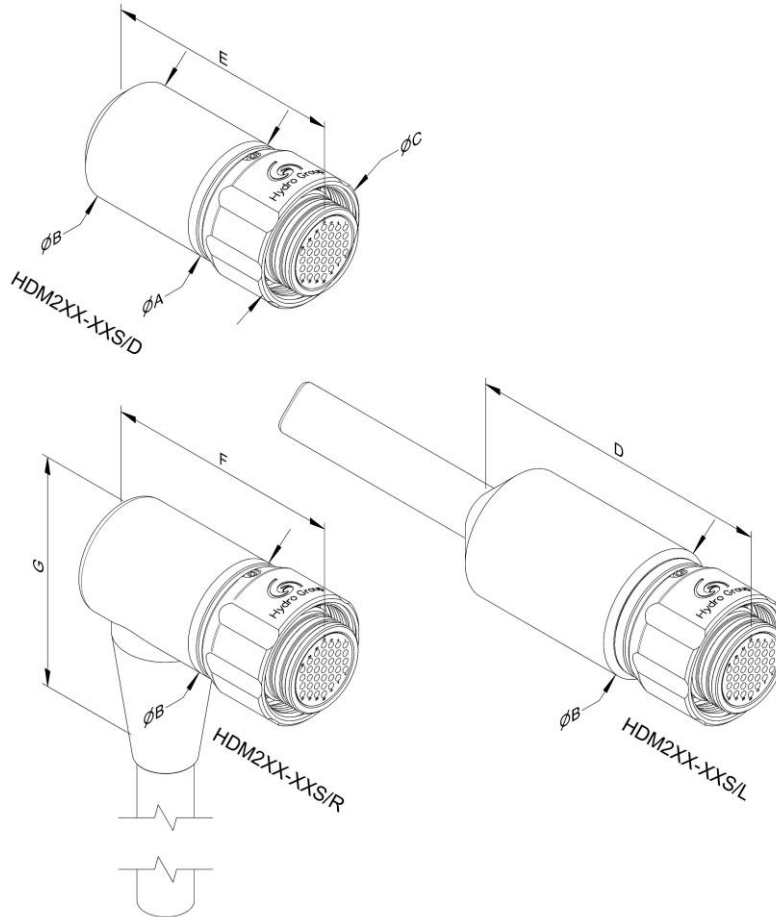
- All dimensions are given in millimetres (mm) unless otherwise stated.
- Dimensions are indicative only and will vary dependant on cable construction and application.
- Dimensions shown only relate to electrical connector assemblies.

HDM Series 1: Male Receptacle Connector



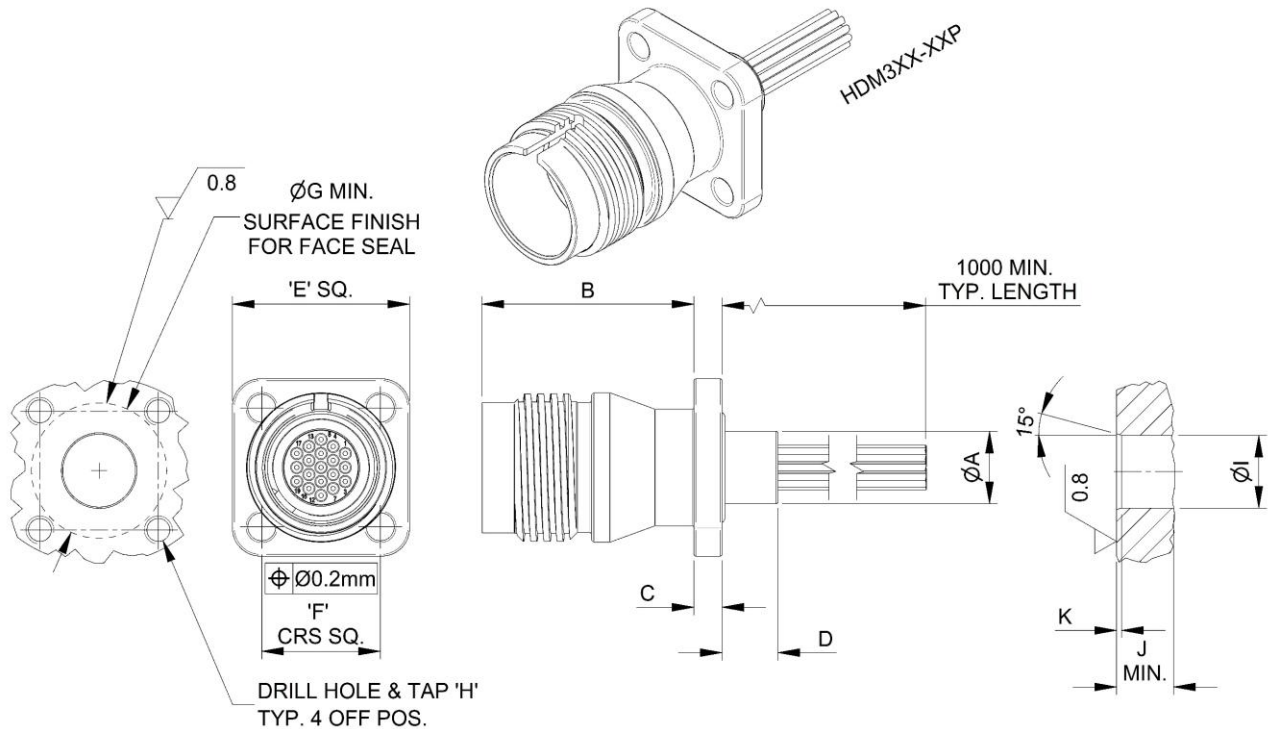
Shell/Dim.	ØA	ØB	C	D	E	F
HDM 102	20	20	85	TBD	TBD	TBD
HDM 103	23	22	85	60	65	45
HDM 104	32	30	115	90	85	70
HDM 105	42	38	115	90	TBD	TBD
HDM 106	46	45	130	90	90	115
HDM 108	60	55	160	130	100-151	146
HDM 111	90	90	165-265	TBD	TBD	TBD

HDM Series 2: Female Plug Connector



Shell/Dim.	ØA	ØB	ØC	D	E	F	G
HDM 202	16	16/22	18	70	80	55	46
HDM 203	22	22/25	25	85	90	70	50-74
HDM 204	30	30	36	100 - 135	100	97	78
HDM 205	41.3	41.3	45	115	100	TBD	TBD
HDM 206	45	45/50	50	115 - 155	100	100	113
HDM 208	55	55	64	170	124	130-160	105-175
HDM 211	75	80	85	180-265	150	TBD	TBD

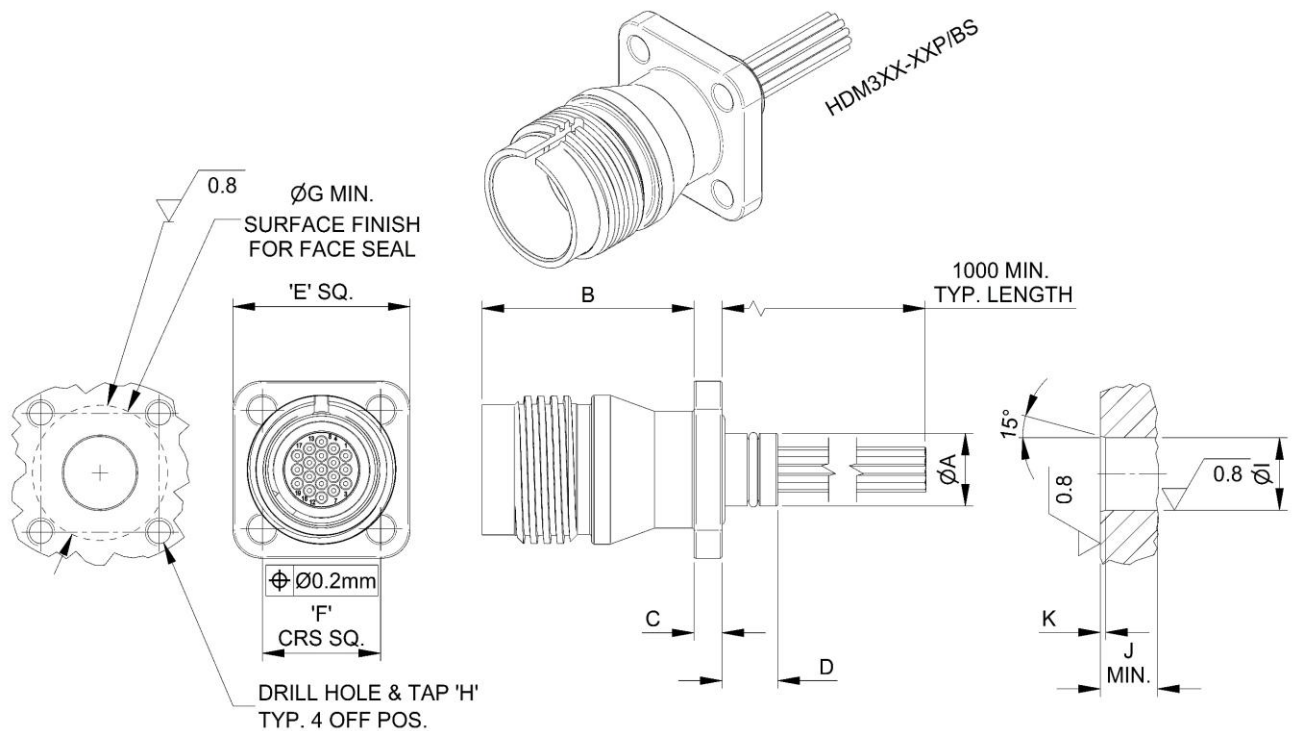
HDM Series 3: Male Panel Mount Connector [Standard: No barrel sealing]



- Data for electrical connectors only.
- Standard electrical tails are Spec. 44. Other options available upon request.
- Bespoke mount can be designed upon request.

Shell/Dim.	ϕA	B	C	D	E	F	ϕG (MIN.)	H	ϕI	J (MIN.)	K
HDM 303	12.8 (Max.)	32.55	3.9	9.55	31.75	21.8	25	M4	13.000 12.816	10	1.3 1
HDM 304	15.58 (Max.)	45.5	6	12	38	25.4	29	M5	15.800 15.600	12.5	1.3 1
HDM 305	18.98 (Max.)	52	6	12	44.5	31.75	32	M6	19.200 19.000	12.5	1.3 1
HDM 306	25.4 (Max.)	53	6	12	50.8	38.1	39	M6	25.600 25.420	12.5	1.3 1
HDM 308	38.075 (Max.)	53.5	9.5	16	66.8	50.8	52	M8	38.300 38.100	16.5	1.3 1

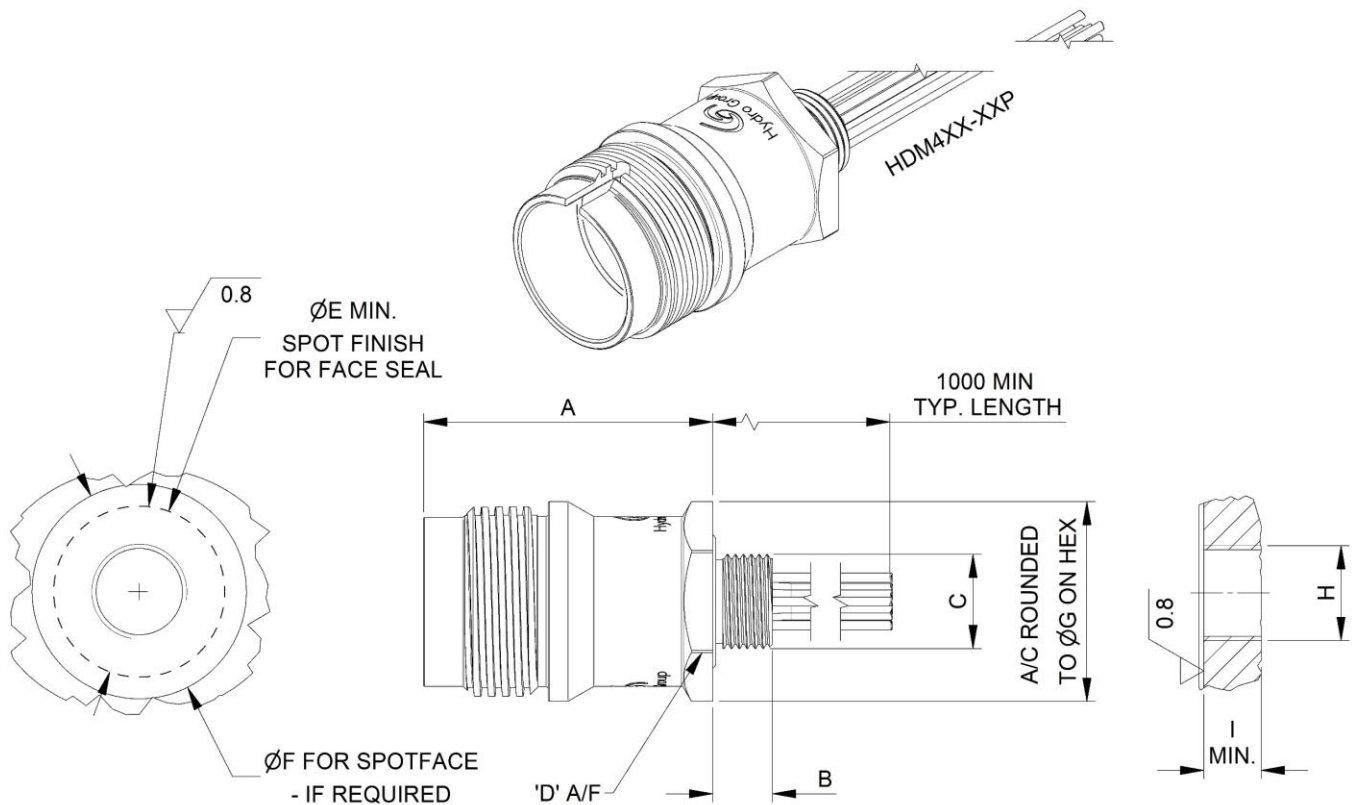
HDM Series 3: Male Panel Mount Connector [BS: With barrel sealing]



- Data for electrical connectors only.
- HDM302-04P/ASSY/XX-XXM does not have a face seal (BS is omitted from part number).
- Standard electrical tails are Spec. 44. Other options available upon request.
- Bespoke mount can be designed upon request.

Shell/Dim.	ØA	B	C	D	E	F	ØG (MIN.)	H	ØI	J (MIN.)	K
HDM 302	16 (f7)	13	6	16	20	15.2	N/A	M2.5	16.027 16.000	16.5	1.5
HDM 303	12.78 (Max.)	32.55	3.9	9.55	31.75	21.8	25	M4	12.823 12.796	10	1.3 1
HDM 304	15.6 (f7)	45.5	6	12	38	25.4	29	M5	15.627 15.600	12.5	1.3 1
HDM 305	19 (f7)	52	6	12	44.5	31.75	32	M6	19.033 19.000	12.5	1.3 1
HDM 306	25.4 (Max.)	53	6	12	50.8	38.1	39	M6	25.453 25.420	12.5	1.3 1
HDM 308	38.1 (h7)	53.5	9.5	16	66.8	50.8	52	M8	38.139 38.100	16.5	1.3 1
HDM 311	60.295 (Max.)	63	14	18	89	69.8	75	M10	60.371 60.325	18.5	1.3 1

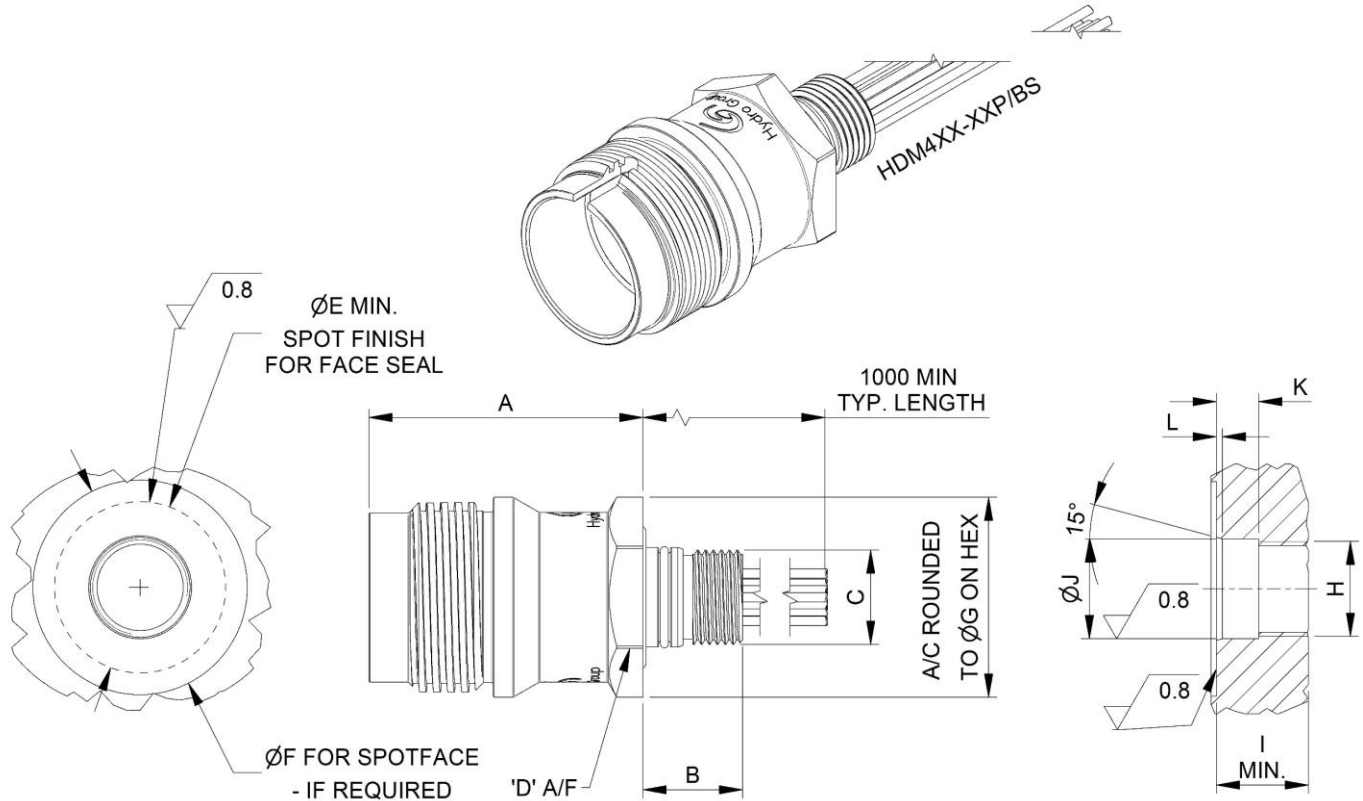
HDM Series 4: Male Bulkhead Connector [Standard: No barrel sealing]



Shell/Dim.	A	B	C	D	ØE (MIN.)	ØF	ØG	H	I (MIN.)
HDM 403	32.5	10	M14x1-6g	24	26	30	27	M14x1-6H	10.5
HDM 404	55.5	12	5/8"-18UNF-2A	28.45	29	34	32.4	5/8"-18UNF-2B	12.5
HDM 405	58	12	3/4"-16UNF-2A	1-3/8"	32	43	40	3/4"-16UNF-2B	12.5
HDM 406	59	12	1"-14UNS-2A	40.6	39	50	46.9	1"-14UNS-2B	12.5
HDM 408	63	12	1 1/2"-12UNF-2A	56	52	68	63.5/64.7	1 1/2"-12UNF-2B	12.5

- Data for electrical connectors only.
- Standard electrical tails are Spec. 44. Other options available upon request.
- Bespoke mount can be designed upon request.

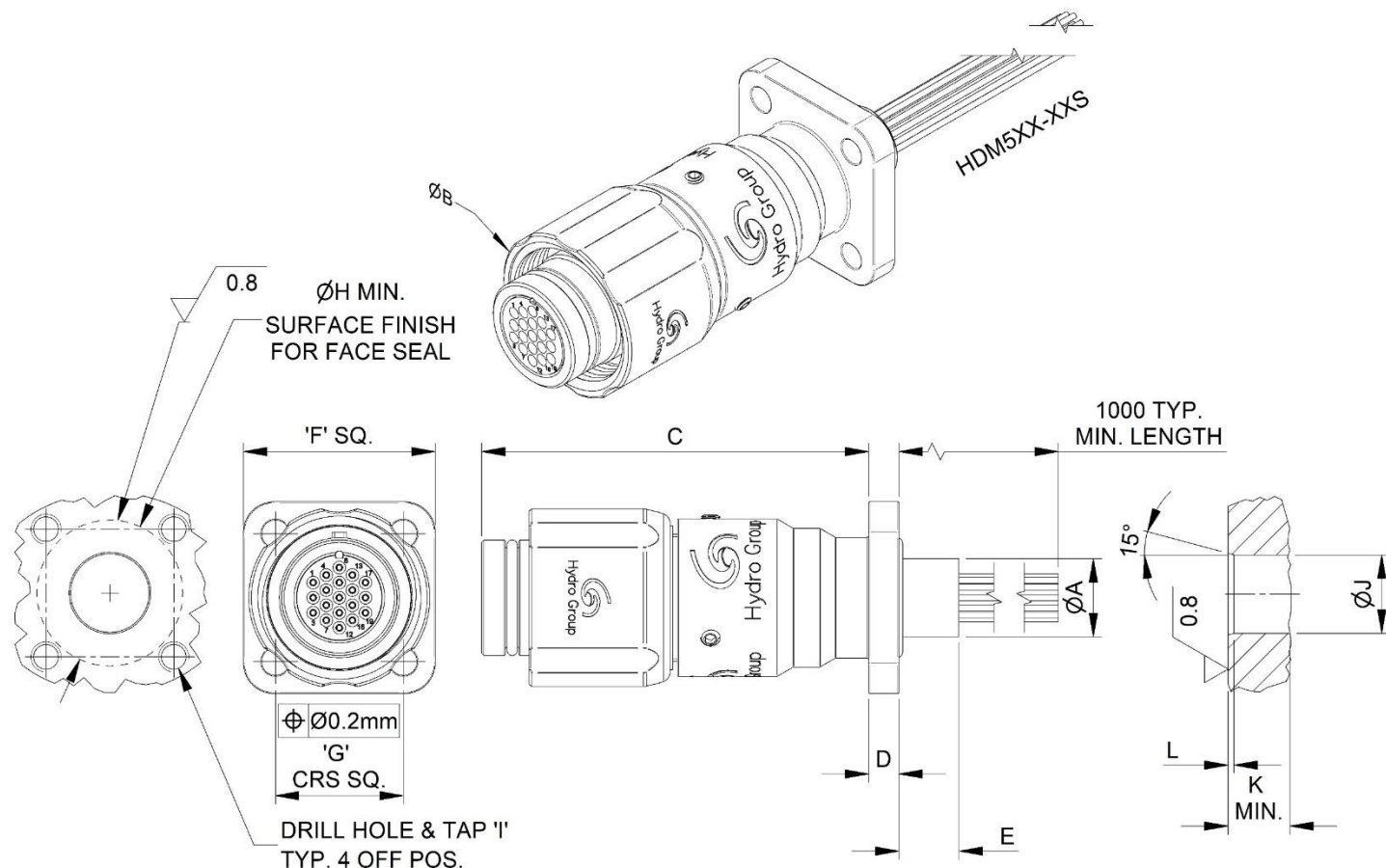
HDM Series 4: Male Bulkhead Connector [BS: With barrel sealing]



Shell/Dim.	A	B	C	D	ØE (MIN.)	ØF	ØG	H	I (MIN.)	ØJ	K	L
HDM 402	19	16	M15x1-6g	17	N/A	20	19.2	M15x1-6H	16.5	16.027 16.000	7	1.2
HDM 403	32.5	19	M14x1-6g	24	26	30	27	M14x1-6H	19.5	16.027 16.000	10	1.2 1
HDM 404	51.5	18.5	5/8"-18UNF-2A	28.45	29	34	32.4	5/8"-18UNF-2B	19	17.027 17.000	7	1.2
HDM 405	56	19	¾"-16UNF-2A	1 3/8"	34	43	40	¾"-16UNF-2B	19.5	20.033 20.000	8.5	1.2
HDM 406	54	22	1-3/8"-12UNF-2A	47.6	47	58	55	1-3/8"-12UNF-2B	22.5	36.039 36.000	11	1.2
HDM 408	63	22	1 ½"-12UNF-2A	56	55	68	63.5/64.7	1 ½"-12UNF-2B	22.5	40.064 40.025	11	1.2

- Data for electrical connectors only.
- HDM402-04P/ASSY/XX-XXM does not have a face seal (BS is omitted from part number).
- Standard electrical tails are Spec. 44. Other options available upon request.
- Bespoke mount can be designed upon request.

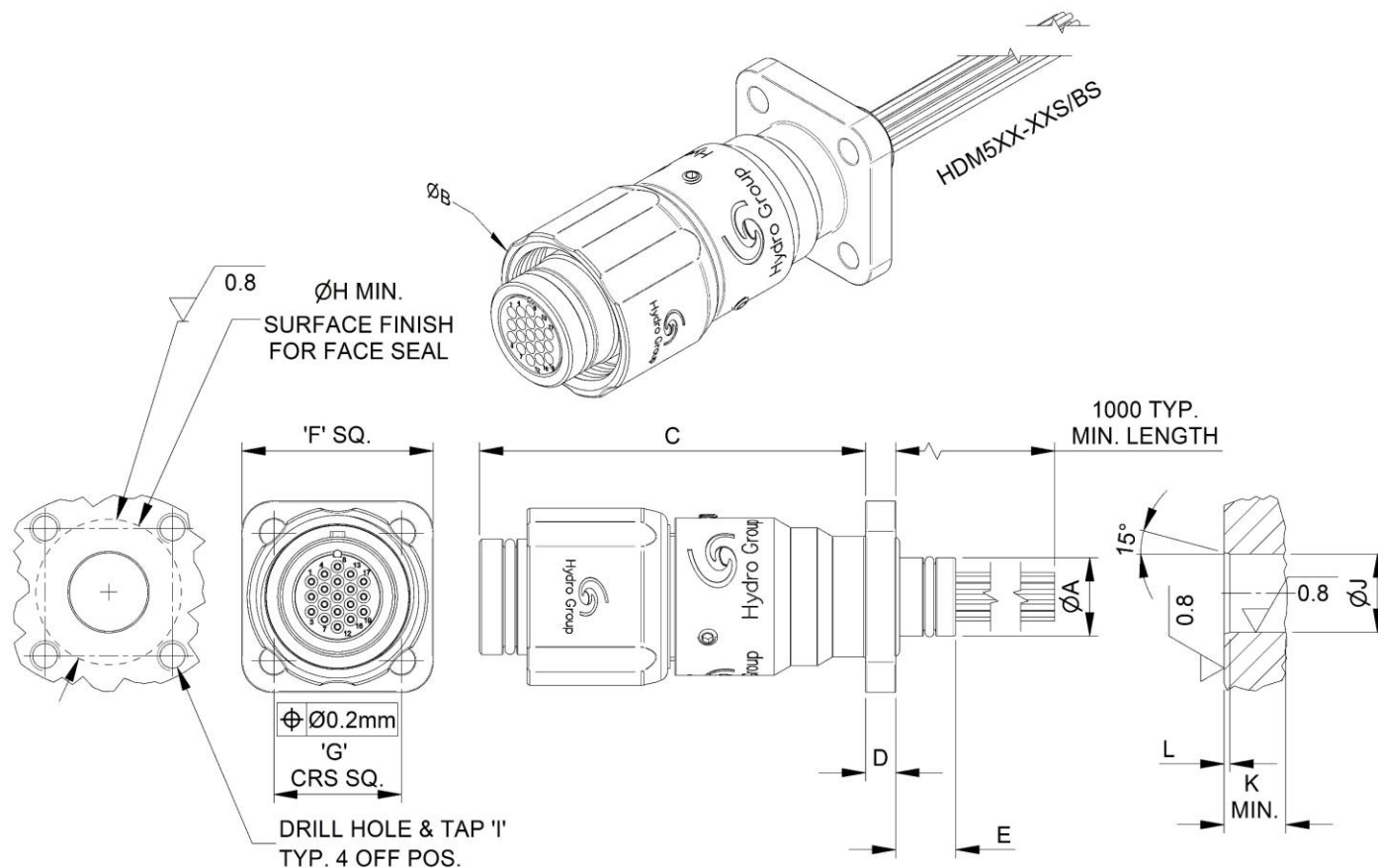
HDM Series 5: Female Panel Mount Connector [Standard: No barrel sealing]



- Data for electrical connectors only.
- Standard electrical tails are Spec. 44. Other options available upon request.
- Bespoke mount can be designed upon request.

Shell/Dim.	ØA	ØB	C	D	E	F	G	ØH (Min.)	I	ØJ	K (Min.)	L
HDM 503	12.8 (Max.)	25	55	4	9.5	31.75	21.8	25	M4	13.000 12.816	10	1.3 1
HDM 504	15.58 (Max.)	36	77	6	12	38.1	25.4	29	M5	15.800 15.600	12.5	1.3 1
HDM 505	18.8 (Max.)	45	85	6	12	44.5	31.75	32	M6	19.200 19.000	12.5	1.3 1
HDM 506	25.4 (Max.)	50	90	6	12	50.8	38.1	39	M6	25.600 25.420	12.5	1.3 1
HDM 508	38 (Max.)	64	92.5	9.5	12	66.7	50.8	51.5	M8	38.300 38.100	12.5	1.3 1
HDM 511	60 (Max.)	85	114	14	18	89	69.85	75.5	M10	60.500 60.325	18.5	1.3 1

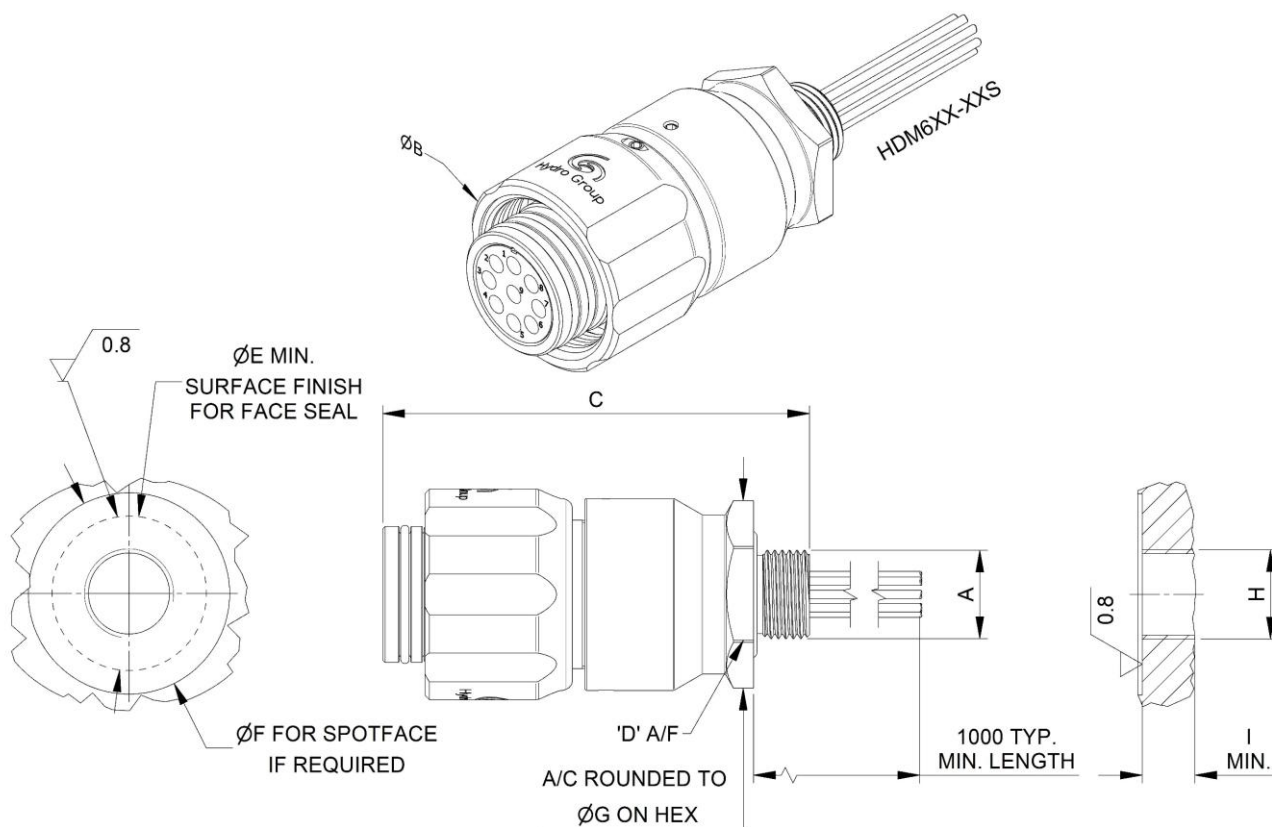
HDM Series 5: Female Panel Mount Connector [BS: With barrel sealing]



Shell/Dim.	øA	øB	C	D	E	F	G	ØH (MIN.)	I	øJ	K (Min.)	L
HDM 502	16 (f7)	18	38.5	3	15	20	15.2	28	M2.5	16.027 16.000	15.5	1.5
HDM 503	12.78 (Max.)	25	55	4	9.5	31.75	21.8	25	M4	12.823 12.796	10	1.3 1
HDM 504	15.6 (f7)	36	77	6	12	38	25.4	29	M5	15.627 15.600	12.5	1.3 1
HDM 505	19 (f7)	45	85	6	12	44.5	31.75	32	M6	19.033 19.00	12.5	1.3 1
HDM 506	25.4 (Max.)	50	90	6	12	50.8	38.1	39	M6	25.453 25.420	12.5	1.3 1
HDM 508	38.1 (f7)	64	92.5	9.5	16	66.7	50.8	51.5	M8	38.139 38.100	16.5	1.3 1
HDM 511	60.295 (Max.)	85	114	14	18	89	69.8	7.5	M10	60.371 60.325	18.5	1.3 1

- HDM502 does not have a face seal.
- Data for electrical connectors only. Standard electrical tails are Spec. 44. Other options available upon request.
- Bespoke mount can be designed upon request.

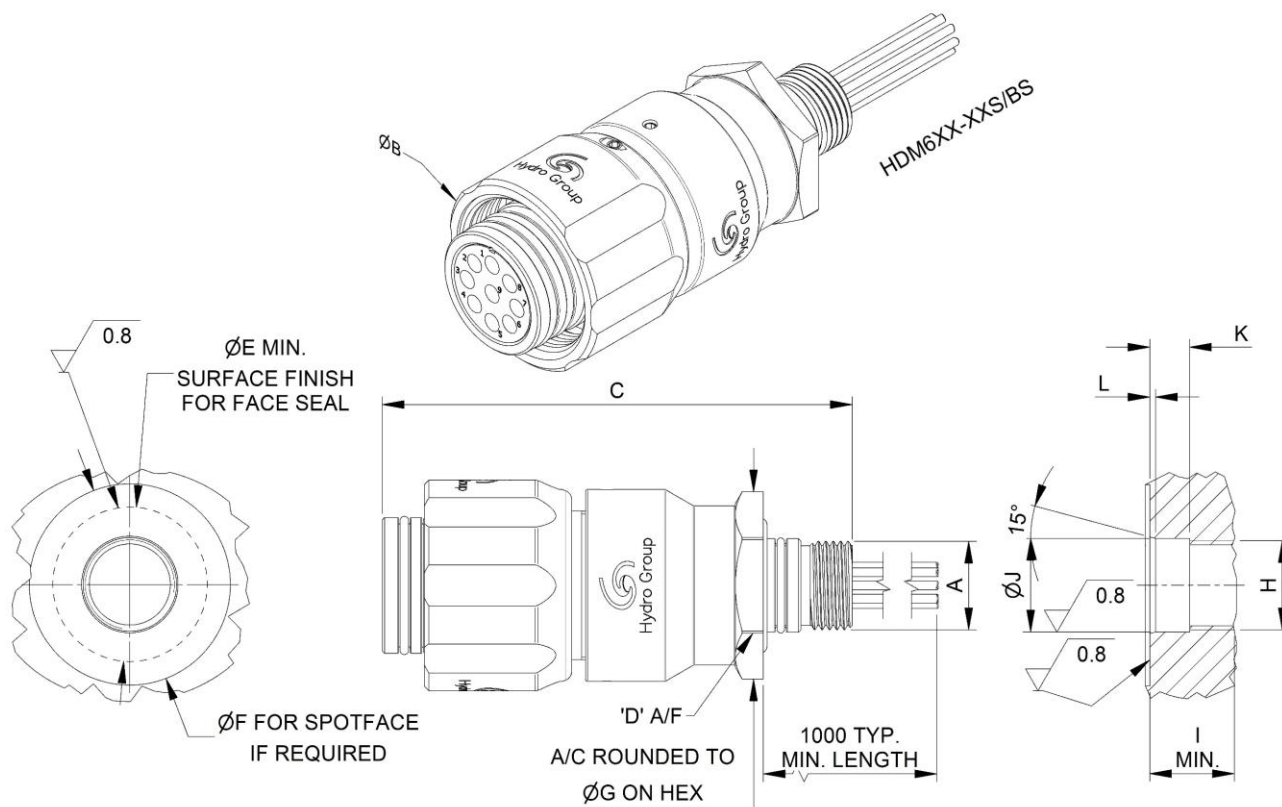
HDM Series 6: Female Bulkhead Connector [Standard: No barrel sealing]



- Data for electrical connectors only.
- Standard electrical tails are Spec. 44. Other options available upon request.
- Bespoke mount can be designed upon request.

Shell/Dim.	A	ØB	C	D	ØE (MIN.)	ØF	ØG	H	I (MIN.)
HDM 603	M14x1-6g	25	55.7	24	26	30	27	M14x1-6H	10.5
HDM 605	¾"-16UNF-2A	45	91	1 3/8"	33	43	40	¾"-16UNF-2B	12.5
HDM 606	1"-14UNS-2A	50	93	40.6	39	50	46.9	1"-14UNS-2B	12.5
HDM 608	1 ½"-12UNF-2A	64	104.5	50.8	52	60	58.6	1 ½"-12UNF-2B	12.5

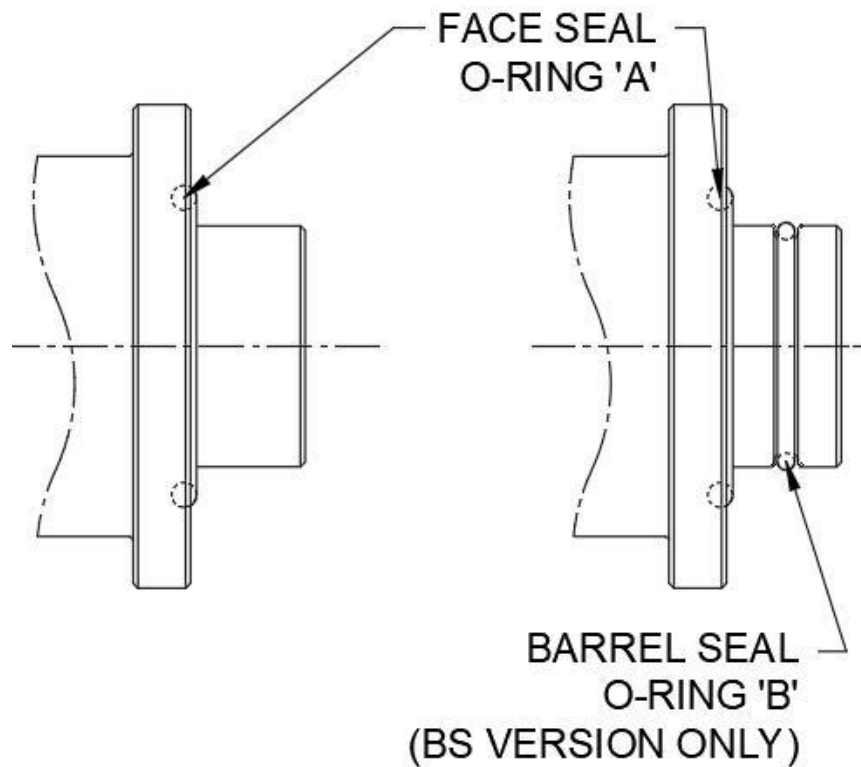
HDM Series 6: Female Bulkhead Connector [BS: With barrel sealing]



- Data for electrical connectors only.
- HDM602 does not have a face seal.
- Standard electrical tails are Spec. 44. Other options available upon request.
- Bespoke mount can be designed upon request.

Shell/Dim.	A	B	C	D	ØE (MIN.)	ØF	ØG	H	I (MIN.)	ØJ	K	L
HDM 602	M15x1-6g	18	64	17	N/A	20	19	M15x1-6H	15.5	16.027 16.000	5.7	0.8 0.5
HDM 603	M14x1-6g	25	65	24	26	30	27	M14x1-6H	19.5	16.027 16.000	10	1.2 1
HDM 605	¾"-16UNF-2A	45	100.5	1 3/8"	34	43	40	¾"-16UNF-2B	19.5	20.033 20.000	9	1.2 1
HDM 608	1 ½"-12UNF-2A	64	114.5	56	55	68	65	1 ½"-12UNF-2B	23	40.064 40.025	11	1.2 1

O-Ring Selection for Panel Mount Connectors [3, 5 and 9 Series – Standard and Barrel Sealed]

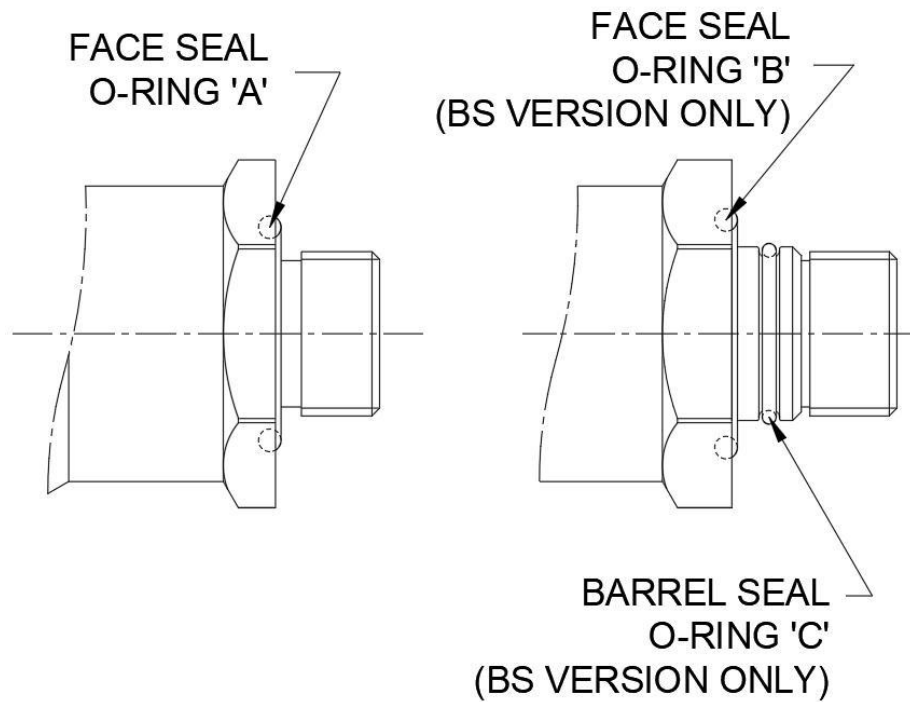


O-Ring Standard Material: Nitrile (70 Shore A). Other materials available on request.

Shell/Dim.	FACE SEAL 'O'-RING 'A'	BARREL SEAL 'O'-RING 'B'
HDM X02	N/A	EUROPEAN GERMAN RANGE - 206-013
HDM X03	BS1806: 200-016	BS1806: 200-012
HDM X04	BS1806: 200-116	BS1806: 200-014
HDM X05	BS1806: 200-118	BS1806: 200-016
HDM X06	BS1806: 200-122	BS1806: 200-020
HDM X08	BS1806: 200-130	BS1806: 200-028
HDM X11	BS1806: 200-145	BS1806: 200-139

O-Ring Selection for Bulkhead Connectors

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



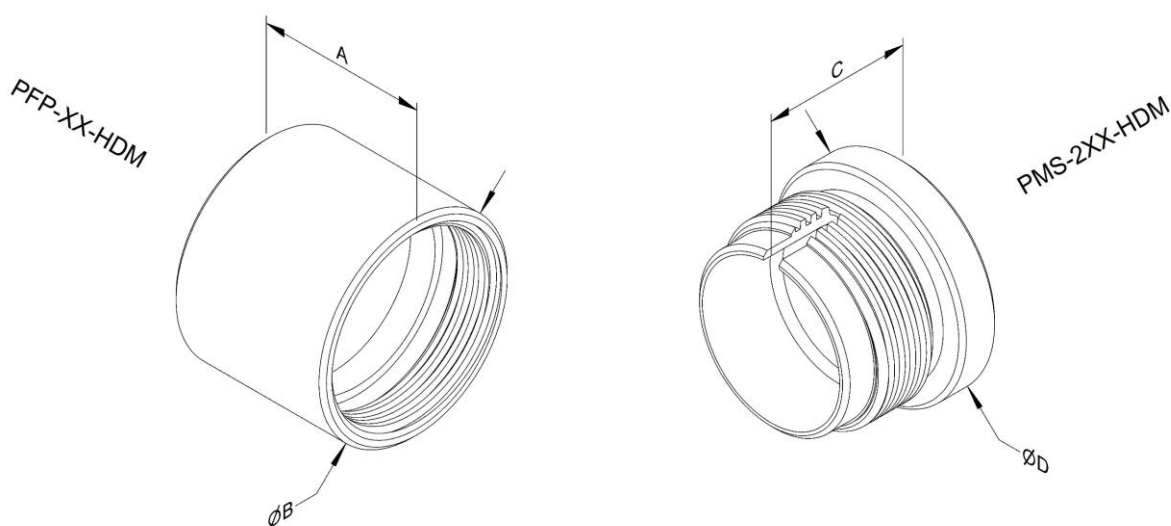
O-Ring Standard Material: Nitrile (70 Shore A). Other materials available on request.

Shell/Dim.	FACE SEAL 'O'-RING 'A' STANDARD VERSION	FACE SEAL 'O'-RING 'B' BS VERSION	BARREL SEAL 'O'-RING 'C'
HDM X02	N/A	N/A	206-013
HDM X03	BS1806: 200-017	BS1806: 200-017	BS1806: 200-014 + Anti-Extrusion Ring
HDM X04	BS1806: 200-116	BS1806: 200-116	BS4518: 0141-16
HDM X05	BS1806: 200-118	BS1806: 200-119	BS4518: 0171-16
HDM X06	BS1806: 200-122	BS1806: 200-029	BS4518: 0316-24
HDM X08	BS1806: 200-130	BS1806: 200-132	BS1806: 200-126

Dust Cap Selection for HDM Series Connectors

[PFP – For connectors without Coupling Ring – 1, 3, 4, 7, 9, 10 & 14 Series]

[PMS – For connectors with Coupling Ring – 2, 5, 6 & 8 Series]



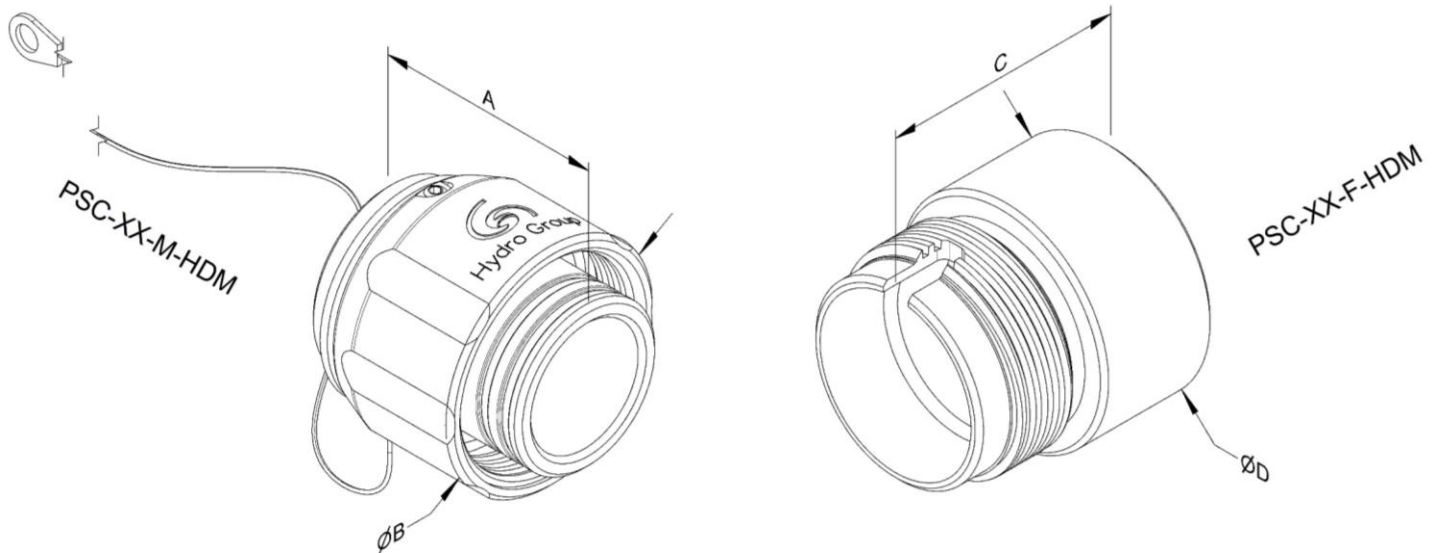
Dust Cap Standard Material: Acetal Co-Polymer (Colour: Black)

Shell/Dim.	PFP		PMS	
	A	ØB	C	ØD
HDM 02	16	20	30	18
HDM 03	20.2	24.9	25	25
HDM 04	35	38.1	43	36
HDM 05	40	45	50	45
HDM 06	40	50	45	50.8
HDM 08	40	64	50	64
HDM 11	40	85	58	85

Pressure Sealing Cap Selection for HDM Series Connectors

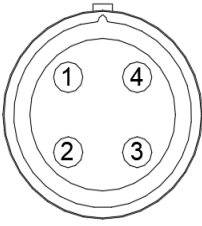
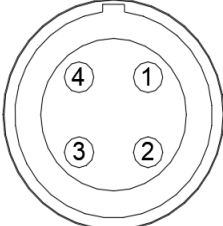
[PSC-XX-M – For connectors without Coupling Ring – 1, 3, 4, 7, 9, 10 & 14 Series]

[PSC-XX-F – For connectors with Coupling Ring – 2, 5, 6 & 8 Series]

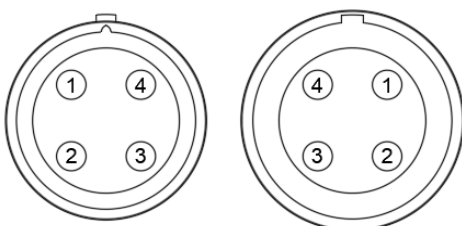


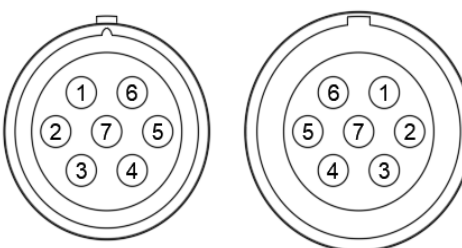
Shell/Dim.	PSC-XX-M-HDM		PSC-XX-F-HDM	
	A	ØB	C	ØD
HDM X02	28	18	30	18
HDM X03	31	25	29	25
HDM X04	45	35	43	36
HDM X05	48.5	45	50	45
HDM X06	48.5	50	52	50
HDM X08	54	64	55	63.5
HDM X11	62.7	85	58	85

Hydro Group Deck Mate (HDM) Shell Size 02 Specifications

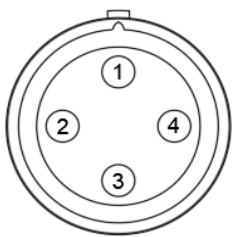
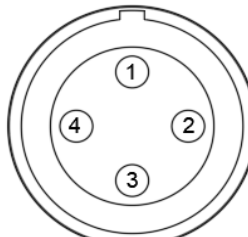
Electrical and Environmental		Standard Material Spec.		Face Views
Pin Current Rating:	7 Amps	Body	316 Stainless Steel	HDM X02 – 04 SOCKET  PIN 
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Nickel Bronze	
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au	
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au	
Mated Depth Rating:	3,450 MSW	Insert	PEEK / Epoxy	
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70	
Conductor Tail Size	18 AWG/ 0.75 sq. mm			

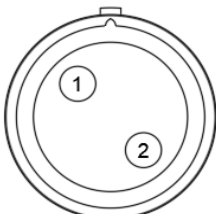
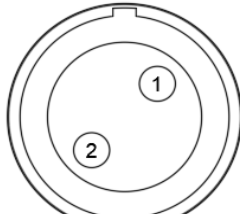
Hydro Group Deck Mate (HDM) Shell Size 03 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views
Pin Current Rating:	7 Amps	Body	316 Stainless Steel	HDM X03 – 04 SOCKET PIN 
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Nickel Bronze	
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au	
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au	
Mated Depth Rating:	3,450 MSW	Insert	PEEK	
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70	
Conductor Tail Size	18 AWG/ 0.75 sq. mm			

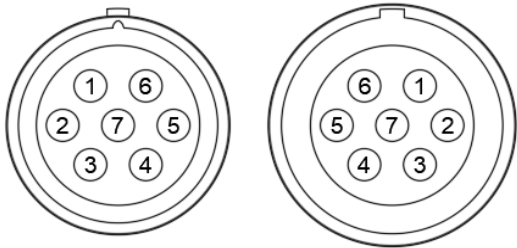
Electrical and Environmental		Standard Material Spec.		Face Views
Pin Current Rating:	3.5 Amps	Body	316 Stainless Steel	HDM X03 – 07 SOCKET PIN 
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Nickel Bronze	
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au	
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au	
Mated Depth Rating:	3,450 MSW	Insert	PEEK	
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70	
Conductor Tail Size	20 AWG / 0.5 sq. mm			

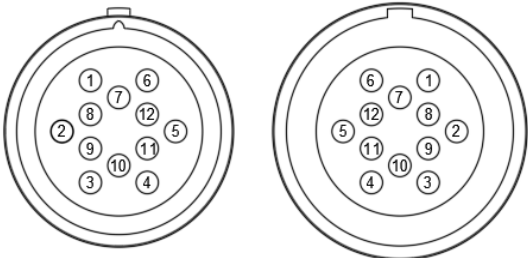
Hydro Group Deck Mate (HDM) Shell Size 04 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Current Rating:	10 Amps	Body	316 Stainless Steel	HDM X04 – 04 SOCKET  PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Nickel Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Insert	PEEK		
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70		
Conductor Tail Size	16 AWG / 1.5 sq. mm				

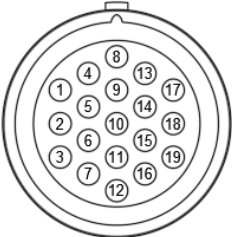
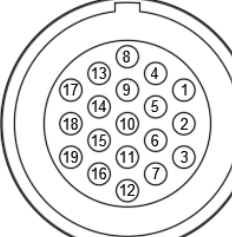
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Current Rating:	35 Amps	Body	316 Stainless Steel	HDM X04 – 02 SOCKET  PIN 	
Pin Voltage Rating:	1,500 V RMS	Fix Ring	Aluminium Nickel Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Insert	PEEK		
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70		
Conductor Tail Size	10 AWG / 4.0 sq. mm				

Hydro Group Deck Mate (HDM) Shell Size 04 Specifications

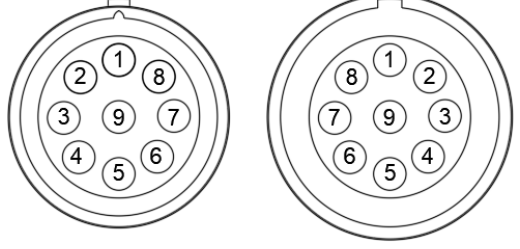
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Current Rating:	8 Amps	Body	316 Stainless Steel	HDM X04 – 07 SOCKET PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Nickel Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Insert	PEEK		
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70		
Conductor Tail Size	16 AWG / 1.5 sq. mm				

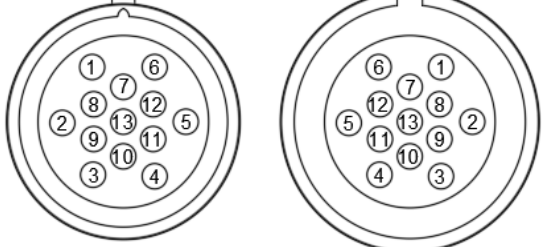
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Current Rating:	3.5 Amps	Body	316 Stainless Steel	HDM X04 – 12 SOCKET PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Nickel Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Insert	PEEK		
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70		
Conductor Tail Size	20 AWG / 0.5 sq. mm				

Hydro Group Deck Mate (HDM) Shell Size 04 Specifications

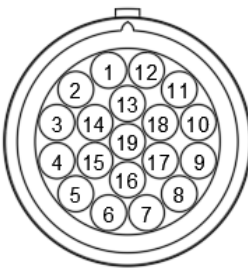
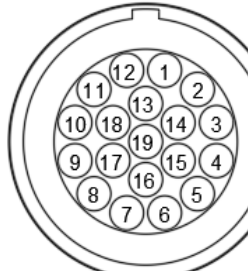
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Current Rating:	3 Amps	Body	316 Stainless Steel	HDM X04 – 19 SOCKET  PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Nickel Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Insert	PEEK		
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70		
Conductor Tail Size	20 AWG / 0.5 sq. mm				

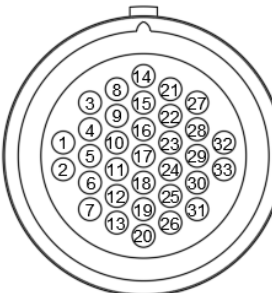
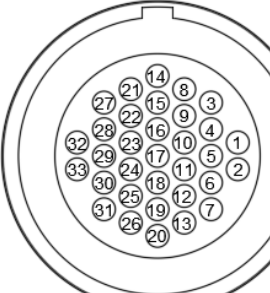
Hydro Group Deck Mate (HDM) Shell Size 05 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views
Pin Current Rating:	7 Amps	Body	316 Stainless Steel	HDM X05 – 09 SOCKET PIN 
Pin Voltage Rating:	1,500 V RMS	Fix Ring	Aluminium Nickel Bronze	
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au	
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au	
Mated Depth Rating:	3,450 MSW	Insert	PEEK	
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70	
Conductor Tail Size	18 AWG / 1.0 sq. mm			

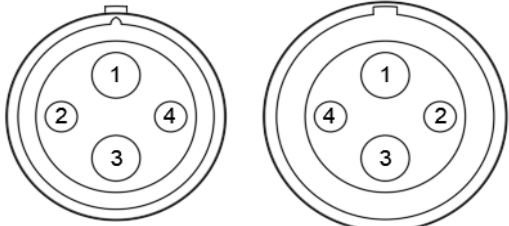
Electrical and Environmental		Standard Material Spec.		Face Views
Pin Current Rating:	5 Amps	Body	316 Stainless Steel	HDM X05 – 13 SOCKET PIN 
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Nickel Bronze	
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au	
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au	
Mated Depth Rating:	3,450 MSW	Insert	PEEK	
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70	
Conductor Tail Size	18 AWG / 1.0 sq. mm			

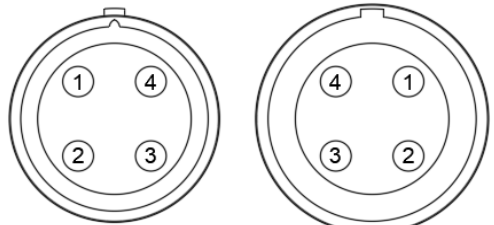
Hydro Group Deck Mate (HDM) Shell Size 05 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Current Rating:	3.5 Amps	Body	316 Stainless Steel	HDM X05 – 19 SOCKET  PIN 	
Pin Voltage Rating:	1,500 V RMS	Fix Ring	Aluminium Nickel Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Insert	PEEK		
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70		
Conductor Tail Size	18 AWG / 1.0 sq. mm				

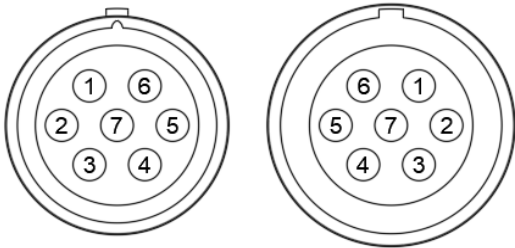
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Current Rating:	2 Amps	Body	316 Stainless Steel	HDM X05 – 33 SOCKET  PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Nickel Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Insert	PEEK		
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70		
Conductor Tail Size	20 AWG / 0.5 sq. mm				

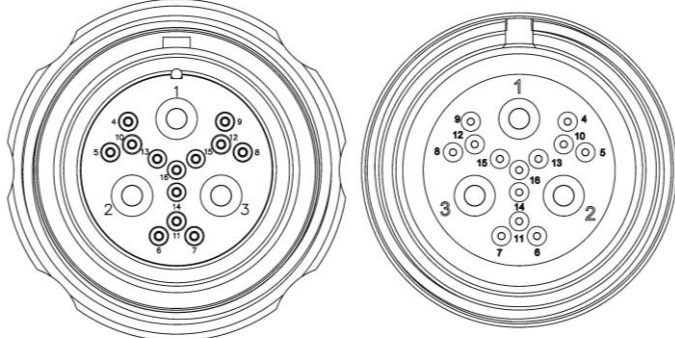
Hydro Group Deck Mate (HDM) Shell Size 06 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views
Pin Current Rating:	95 / 20 Amps	Body	316 Stainless Steel	HDM X06 – 02-02 SOCKET PIN 
Pin Voltage Rating:	1,500 V RMS	Fix Ring	Aluminium Nickel Bronze	
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au	
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au	
Mated Depth Rating:	3,450 MSW	Insert	PEEK	
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70	
Conductor Tail Size	16.0 / 4.0 sq. mm			

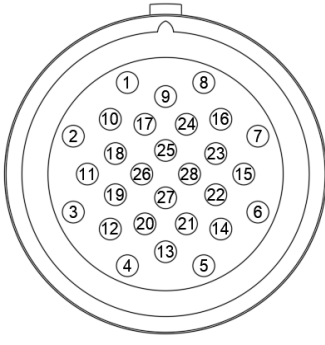
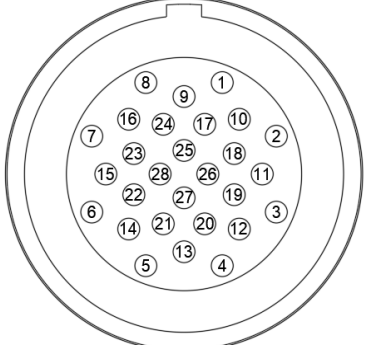
Electrical and Environmental		Standard Material Spec.		Face Views
Pin Current Rating:	20 Amps	Body	316 Stainless Steel	HDM X06 – 04 SOCKET PIN 
Pin Voltage Rating:	3,000 V RMS	Fix Ring	Aluminium Nickel Bronze	
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au	
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au	
Mated Depth Rating:	3,450 MSW	Insert	PEEK	
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70	
Conductor Tail Size	12 AWG / 2.5 sq. mm			

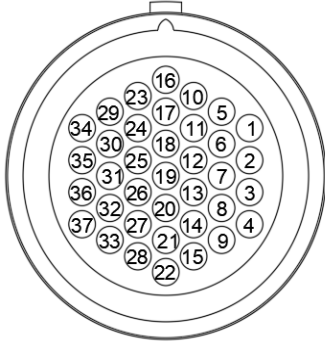
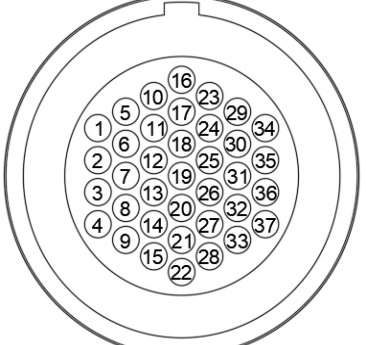
Hydro Group Deck Mate (HDM) Shell Size 06 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views
Pin Current Rating:	16 Amps	Body	316 Stainless Steel	HDM X06 – 07 SOCKET PIN 
Pin Voltage Rating:	1,500 V RMS	Fix Ring	Aluminium Nickel Bronze	
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au	
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au	
Mated Depth Rating:	3,450 MSW	Insert	PEEK	
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70	
Conductor Tail Size	12 AWG/2.5 sq.mm			

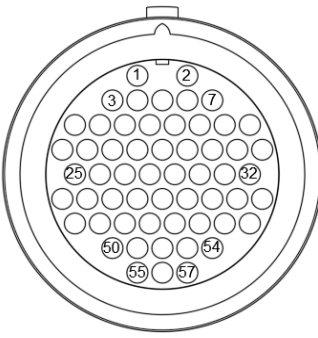
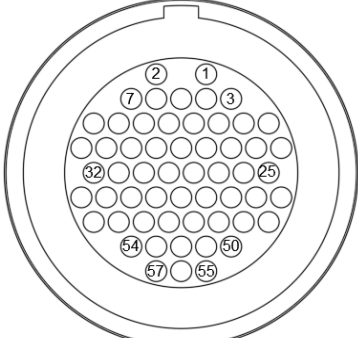
Electrical and Environmental		Standard Material Spec.		Face Views
Pin Current Rating:	26 / 4 Amps	Body	316 Stainless Steel	HDM X06 – 03-4.0/13-0.75 SOCKET PIN 
Pin Voltage Rating:	1,500 V RMS	Fix Ring	Aluminium Nickel Bronze	
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au	
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au	
Mated Depth Rating:	3,450 MSW	Insert	PEEK	
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70	
Conductor Tail Size	4.0 / 0.75 sq.mm			

Hydro Group Deck Mate (HDM) Shell Size 06 Specifications

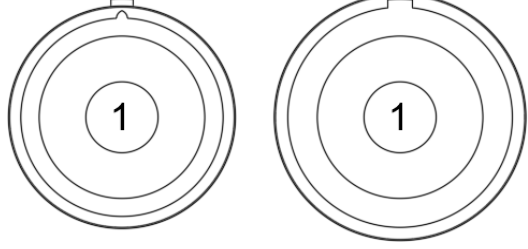
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Current Rating:	3 Amps	Body	316 Stainless Steel	HDM X06 – 28 SOCKET  PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Nickel Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Insert	PEEK		
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70		
Conductor Tail Size	20 AWG / 0.5 sq. mm				

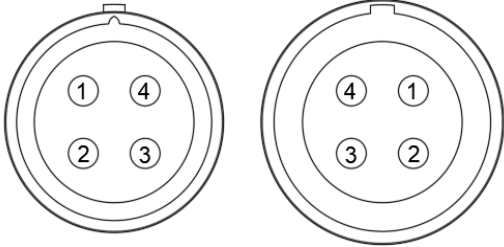
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Current Rating:	2.5 Amps	Body	316 Stainless Steel	HDM X06 – 37 SOCKET  PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Nickel Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Insert	PEEK		
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70		
Conductor Tail Size	20 AWG / 0.5 sq. mm				

Hydro Group Deck Mate (HDM) Shell Size 06 Specifications

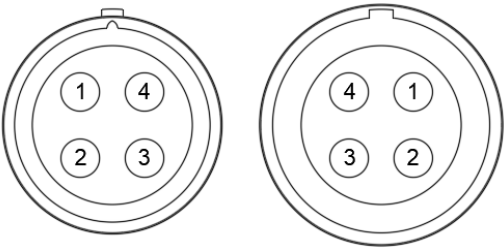
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Current Rating:	2 Amps	Body	316 Stainless Steel	HDM X06 – 57 SOCKET  PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Nickel Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Insert	PEEK		
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70		
Conductor Tail Size	20 AWG / 0.5 sq. mm				

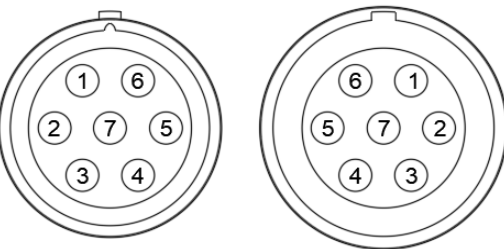
Hydro Group Deck Mate (HDM) Shell Size 08 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Current Rating:	20 Amps	Body	316 Stainless Steel	<u>HDM X08 – 01/HV-10kVDC</u> SOCKET PIN 	
Pin Voltage Rating:	10,000 V RMS DC	Fix Ring	Aluminium Nickel Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Insert	PEEK		
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70		
Conductor Tail Size	14 AWG				

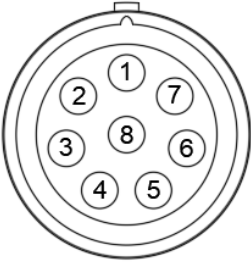
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Current Rating:	20 Amps	Body	316 Stainless Steel	<u>HDM X08 – 04/HV</u> SOCKET PIN 	
Pin Voltage Rating:	3,300 V RMS	Fix Ring	Aluminium Nickel Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Insert	PEEK		
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70		
Conductor Tail Size	14 AWG / 1.5 sq. mm				

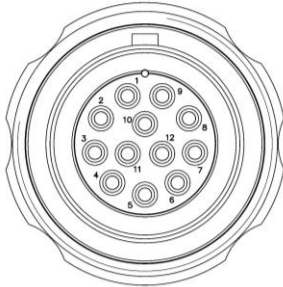
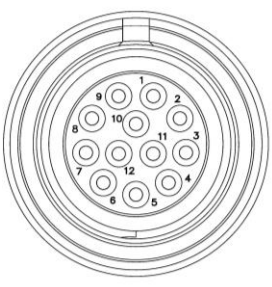
Hydro Group Deck Mate (HDM) Shell Size 08 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views
Pin Current Rating:	60 Amps	Body	316 Stainless Steel	HDM X08 – 04 SOCKET PIN 
Pin Voltage Rating:	1,500 V RMS	Fix Ring	Aluminium Nickel Bronze	
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au	
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au	
Mated Depth Rating:	3,450 MSW	Insert	PEEK	
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70	
Conductor Tail Size	25.0 sq. mm			

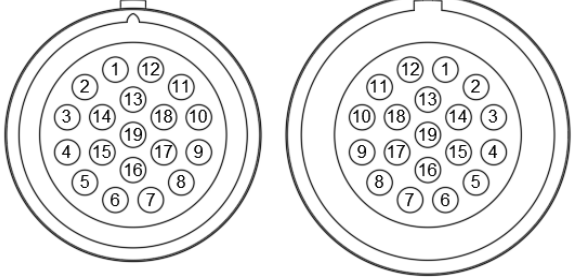
Electrical and Environmental		Standard Material Spec.		Face Views
Pin Current Rating:	16 Amps	Body	316 Stainless Steel	HDM X08 – 07 SOCKET PIN 
Pin Voltage Rating:	1,500 V RMS	Fix Ring	Aluminium Nickel Bronze	
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au	
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au	
Mated Depth Rating:	3,450 MSW	Insert	PEEK	
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70	
Conductor Tail Size	14 AWG / 1.5 sq. mm			

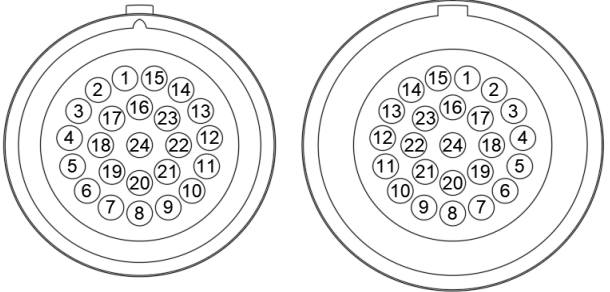
Hydro Group Deck Mate (HDM) Shell Size 08 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Current Rating:	15 Amps	Body	316 Stainless Steel	HDM X08 – 08 SOCKET  PIN 	
Pin Voltage Rating:	1,500 V RMS	Fix Ring	Aluminium Nickel Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Insert	PEEK		
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70		
Conductor Tail Size	12 AWG / 2.5 sq. mm				

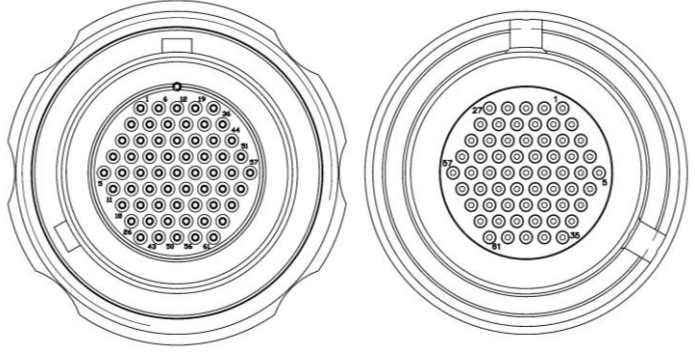
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Current Rating:	22 Amps	Body	316 Stainless Steel	HDM X08 – 12 SOCKET  PIN 	
Pin Voltage Rating:	1,500 V RMS	Fix Ring	Aluminium Nickel Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Insert	PEEK		
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70		
Conductor Tail Size	10 AWG / 6.0 sq. mm				

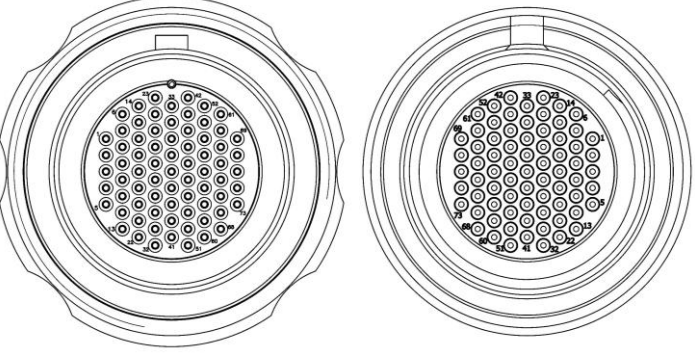
Hydro Group Deck Mate (HDM) Shell Size 08 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Current Rating:	5 Amps	Body	316 Stainless Steel	HDM X08 – 19 SOCKET PIN 	
Pin Voltage Rating:	1,500 V RMS	Fix Ring	Aluminium Nickel Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Insert	PEEK		
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70		
Conductor Tail Size	18 AWG / 1.0 sq. mm				

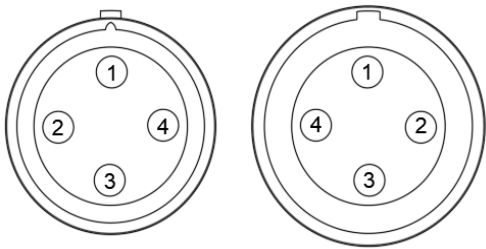
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Current Rating:	4 Amps	Body	316 Stainless Steel	HDM X08 – 24 SOCKET PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Nickel Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Insert	PEEK		
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70		
Conductor Tail Size	18 AWG / 1.0 sq. mm				

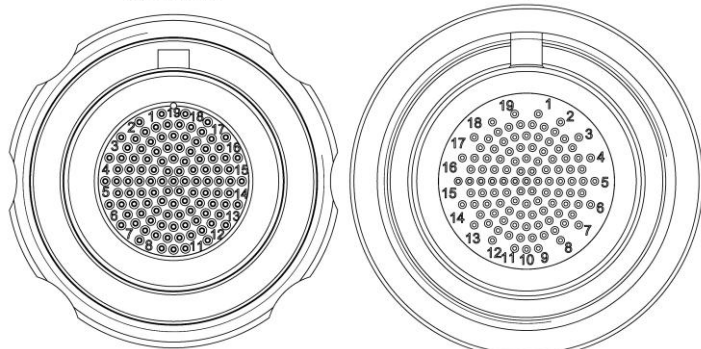
Hydro Group Deck Mate (HDM) Shell Size 08 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Current Rating:	2 Amps	Body	316 Stainless Steel	HDM X08 – 61 SOCKET PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Nickel Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Insert	PEEK		
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70		
Conductor Tail Size	20 AWG / 0.5 sq. mm				

Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Current Rating:	2 Amps	Body	316 Stainless Steel	HDM X08 – 73 SOCKET PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Nickel Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Insert	PEEK		
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70		
Conductor Tail Size	20 AWG / 0.5 sq. mm				

Hydro Group Deck Mate (HDM) Shell Size 11 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Current Rating:	8 Amps	Body	316 Stainless Steel	HDM X11 – 04/HV SOCKET PIN 	
Pin Voltage Rating:	4,500 V RMS	Fix Ring	Aluminium Nickel Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Insert	PEEK		
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70		
Conductor Tail Size	10 AWG / 4.0 sq. mm				

Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Current Rating:	1 Amp	Body	316 Stainless Steel	HDM X11 – 110 SOCKET PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Nickel Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Contact to Body IR:	>1 GOhm @1kVDC	Socket	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Insert	PEEK		
Temperature Rating	-20°C to +60°C	'O'-Rings	Nitrile 70		
Conductor Tail Size	20AWG/ 0.5 sq. mm				