

HDM: Hydro Bond Deck Mate

Surface Mateable Electrical Connectors, Metal Keyed

Hydro Group Plc has over three 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.

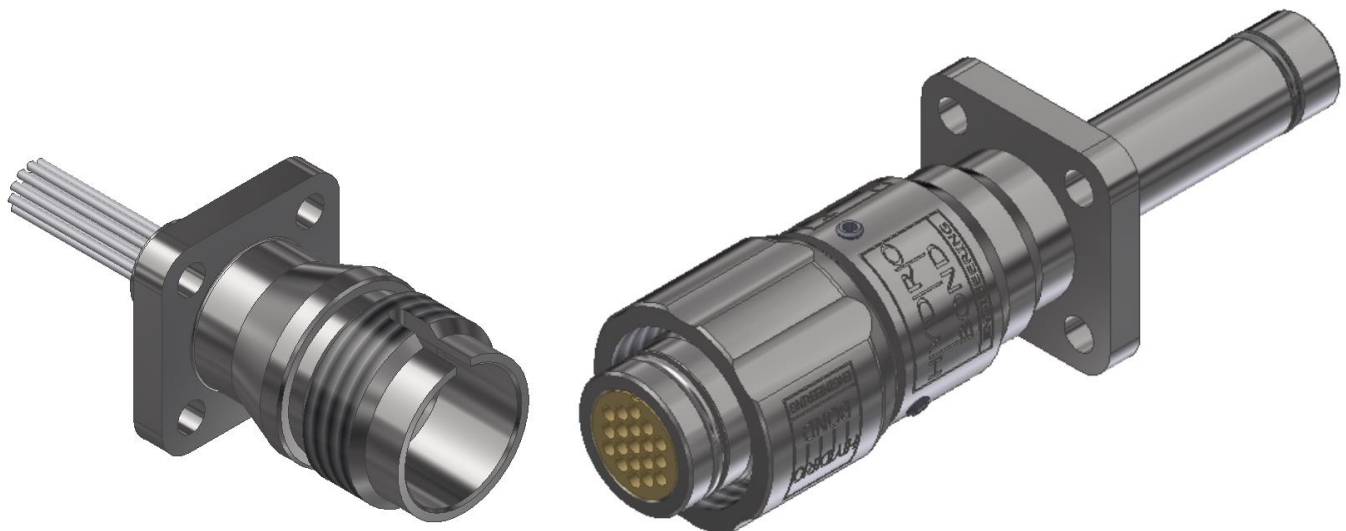
Hydro Bond Engineering, a Hydro Group company, designs and manufactures subsea electrical and optical connectors, electrical pressure hull penetrators, cable terminations and assemblies, with installation and maintenance available.

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 Bond Engineering designs and manufactures surface-mateable Hydro Deck Mate (HDM) connectors 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 Bond Deck Mate Electrical Connectors, Metal Keyed

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

- 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: Hydro Bond 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.

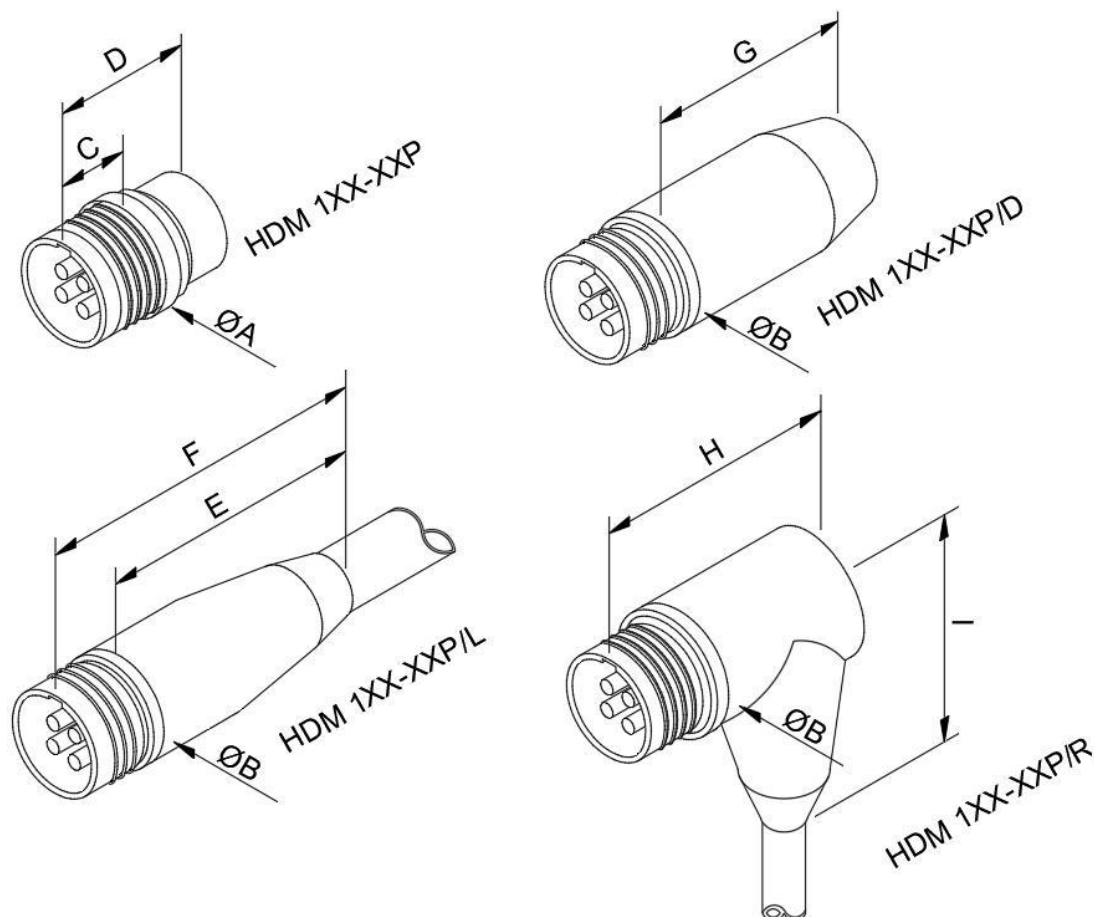
HDM VWW – XXY / ..

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)	Connector moulding options: L = In-line D = Dummy R = Right-angled BS = Barrel Sealed None = No over-moulding

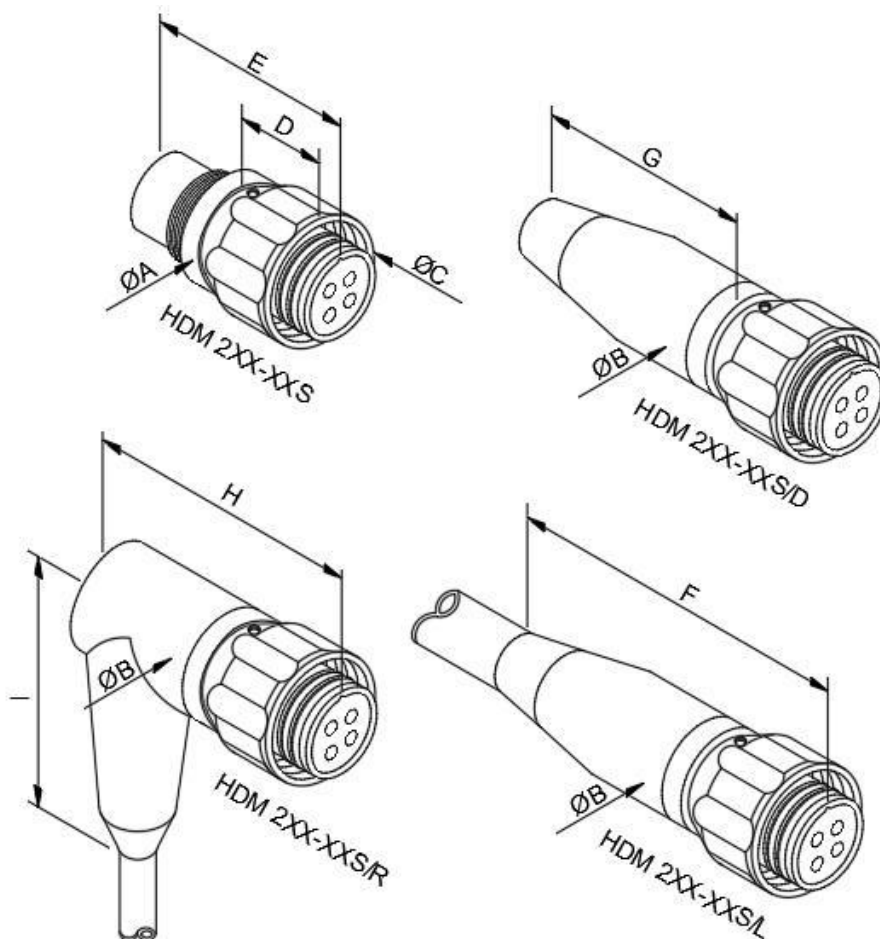
- All dimensions are given in millimetres (mm) unless otherwise stated. Dimensions for XX may differ depending on design and/or cable size.

HDM Series 1: Male in-line connector



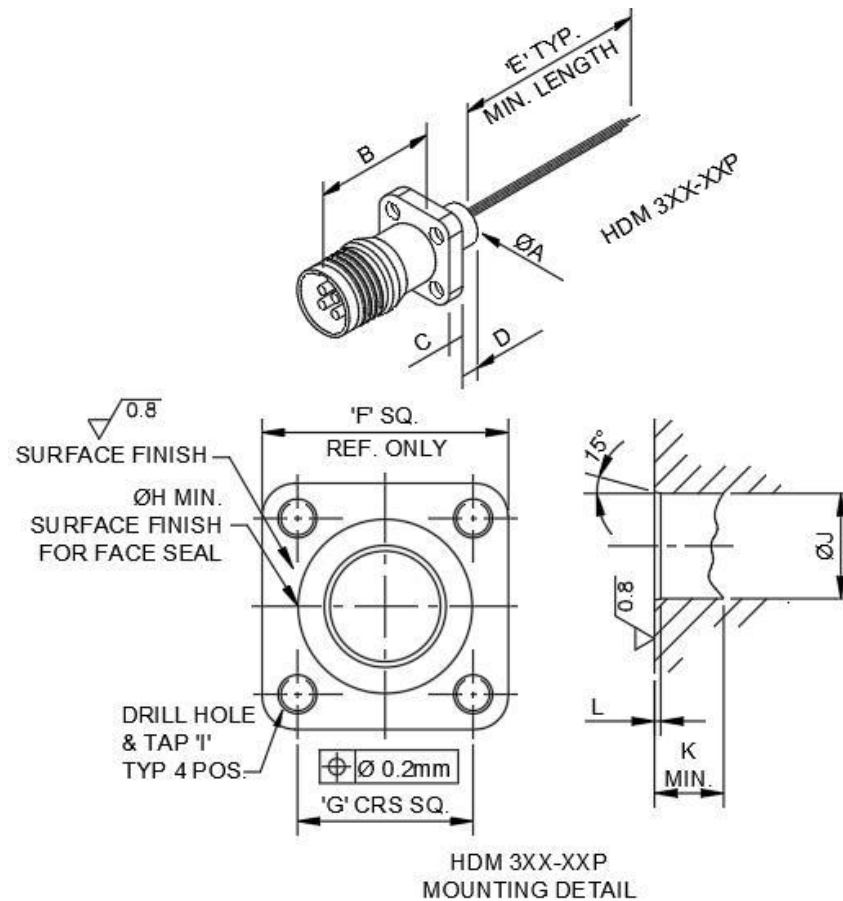
Shell/Dim.	ØA	ØB	C	D	E	F	G	H	I
HDM 102	20	20	11	33	XX*	XX*	XX*	XX*	XX*
HDM 103	23	22	13	41	60	85	XX*	XX*	XX*
HDM 104	32	30	24	52	100	120	95	70	60
HDM 105	40	38	25	53	83	110	65	87	52
HDM 106	46	45	25	55	90	130	90	90	90
HDM 108	60	55	25	70	120	150	120	100	100
HDM 111	90	90	25	95	145	180	XX*	160	90

HDM Series 2: Female in-line connector



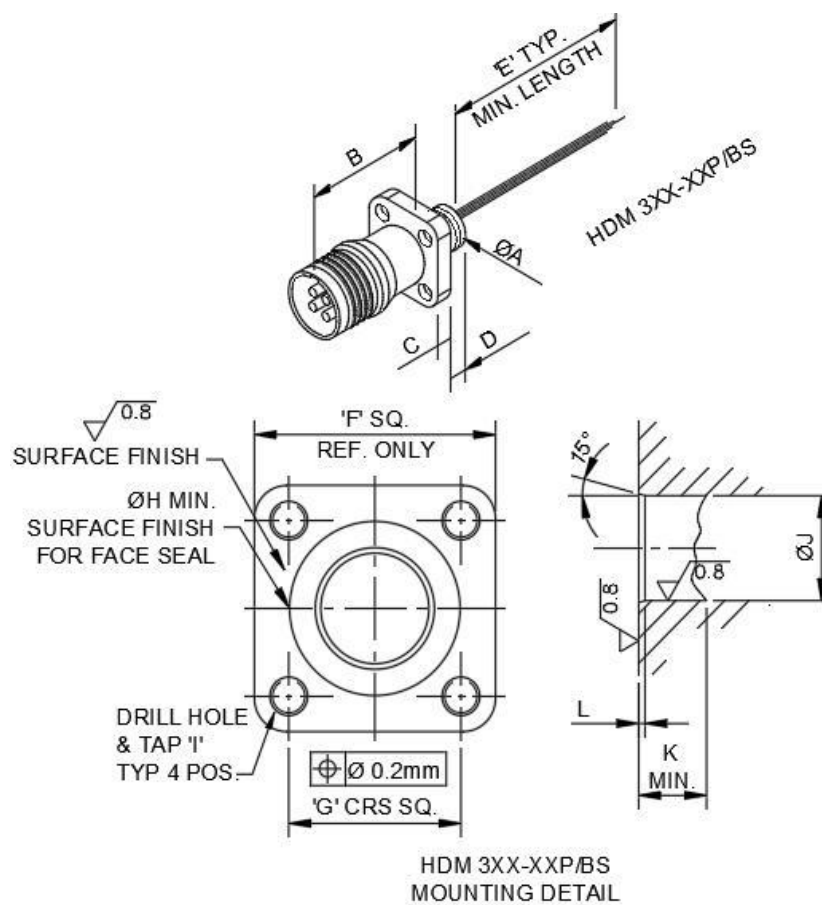
Shell/Dim.	øA	øB	øC	D	E	F	G	H	I
HDM 202	14.5	16	18	16	33	XX*	XX*	XX*	XX*
HDM 203	20	22	25	18.5	41	85	65	70	50
HDM 204	28.5	30	35	28	62	100	95	93	60
HDM 205	34.5	41.2	45	32	65	115	83	100	75
HDM 206	40.5	45	50	31.5	63	130	90	100	90
HDM 208	54	60	64	31.5	76	140	100	120	90
HDM 211	73	80	85	34.5	95	180	180	160	90

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



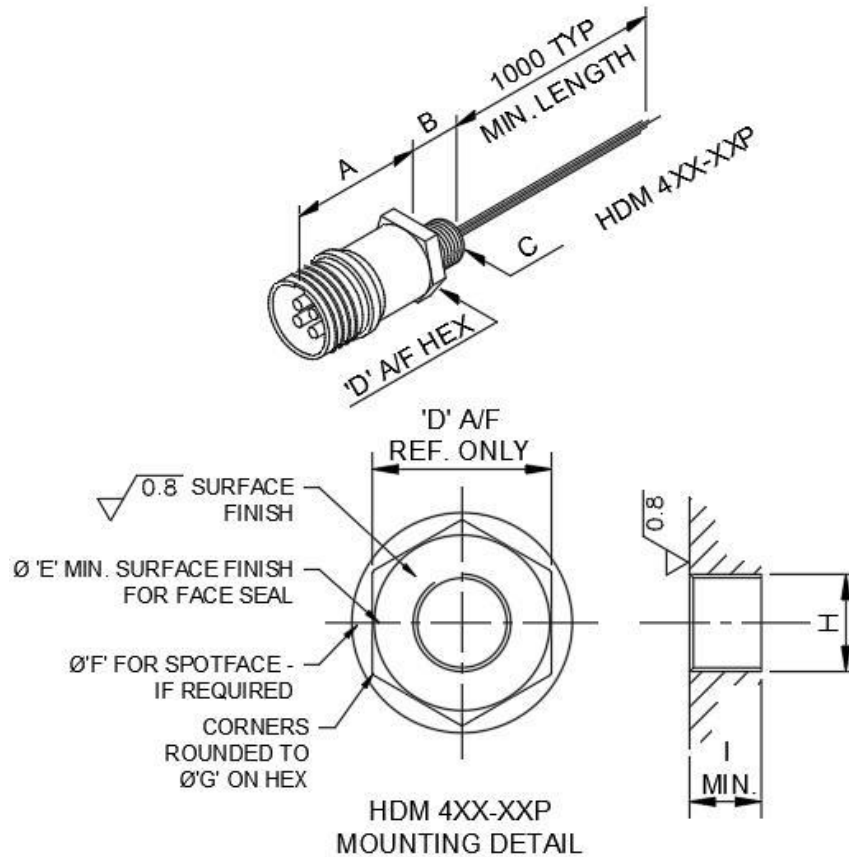
Shell/Dim.	ϕA	B	C	D	E	F	G	ϕH	I	ϕJ	K	L
HDM 302	16	13	6	16	1000	20	15	28	M2.5	16.027 16.000	16.5	1.5
HDM 303	13	33	4	9.5	1000	32	22	24	M4	12.843 12.816	10	1.3 1
HDM 304	16	46	6	12	1000	38	25	29	M5	15.627 15.600	12.5	1.3 1
HDM 305	19	48	6	12	1000	45	32	32	M6	19.033 19.000	12.5	1.3 1
HDM 306	25	48	6	12	1000	51	38	39	M6	25.453 25.420	12.5	1.3 1
HDM 308	38	54	10	16	1000	67	51	51	M8	38.139 38.100	16.5	1.3 1
HDM 311	60	63	14	18	1000	89	70	74	M10	60.371 60.325	18.5	1.3 1

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



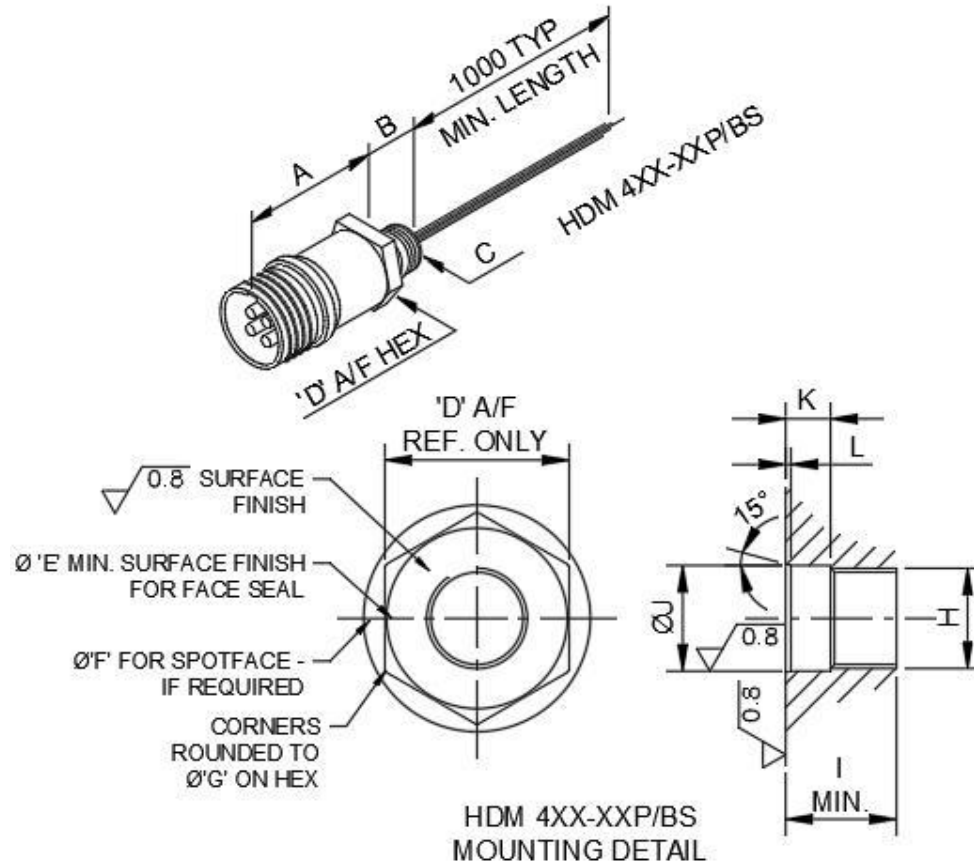
Shell/Dim.	ØA	ØB	C	D	E	F	G	H	I	J	K	L
HDM 302	16	13	6	21.5	1000	20	15.2	28	M2.5	16.027 16.000	28	1.5
HDM 303	12.8	32.5	4	9.5	1000	31.75	21.8	24	M4	12.823 12.796	10	1.3 1
HDM 304	15.5	45.5	6	12	1000	38	25.4	29	M5	15.627 15.600	12.5	1.3 1
HDM 305	19	48	6	12	1000	44.5	31.75	32	M6	19.033 19.000	12.5	1.3 1
HDM 306	25.4	48	6	12	1000	50.8	38.1	38.5	M6	25.453 25.420	12.5	1.3 1
HDM 308	38.1	53.5	9.5	16	1000	66.8	50.8	51	M8	38.139 38.100	16.5	1.3 1
HDM 311	60.3	63	14	18	1000	89	69.85	74	M10	60.371 60.325	18.5	1.3 1

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



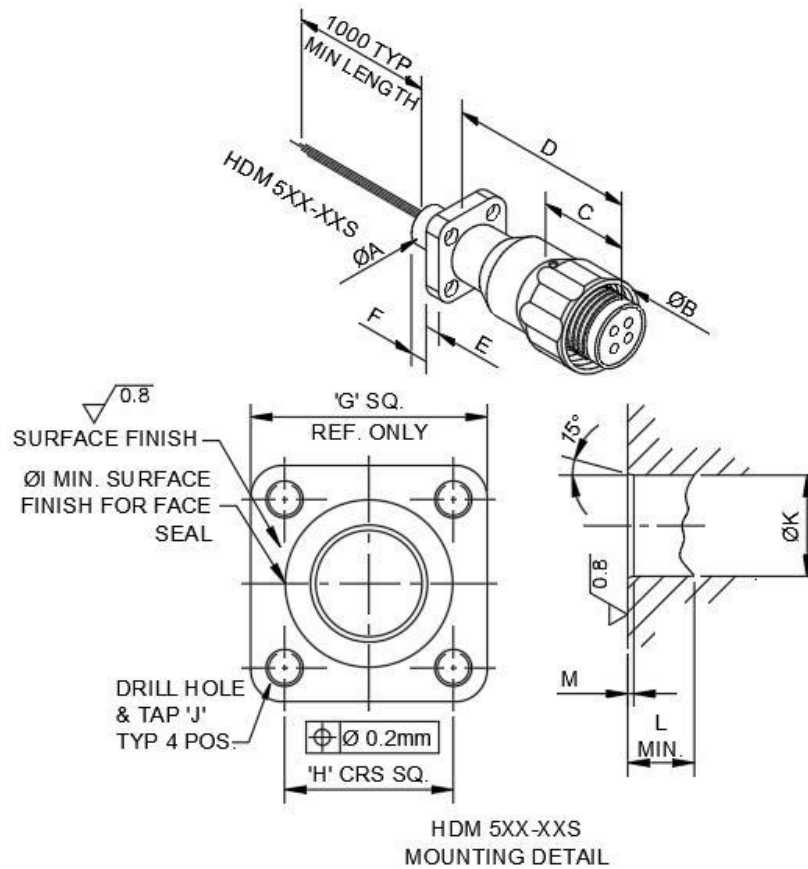
Shell/Dim.	A	B	C	D	øE	øF	øG	H	I
HDM 402	19	16	M16x1-6g	17	29	29	19.2	M16x1-6H	16.5
HDM 403	32.5	10	M14x1-6g	24	26	30	27	M14x1-6H	10.5
HDM 404	51.5	12	5/8"-18UNF-2A	28.45	29.4	34	32.4	5/8"-18UNF-2B	12.5
HDM 405	55	12	¾"-16UNF-2A	1 ¼"	34.3	43	40	¾"-16UNF-2B	12.5
HDM 406	54	12	1"-14UNS-2A	40.6	38.9	50	46.9	1"-14UNS-2B	12.5
HDM 408	63	12	1 ½"-UNF-2A	56	55	68	64.7	1 ½"-UNF-2B	12.5
HDM 411	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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



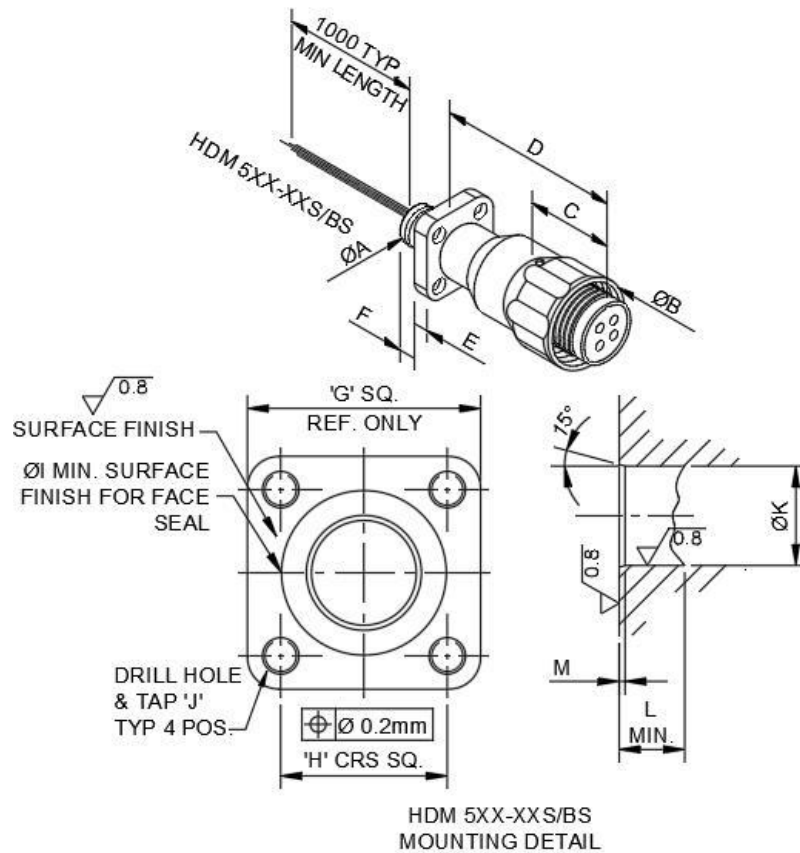
Shell/Dim.	A	B	C	D	ØE	ØF	ØG	H	I	ØJ	K	L
HDM 402	19	16	M16x1-6g	17	29	29	19.2	M16x1-6H	18.5	16.027 16.000	6.5	1.2
HDM 403	32.5	19	M14x1-6g	24	26	30	27	M14x1-6H	19.5	16.027 16.000	10	1.2 1
HDM 404	51.5	18.5	5/8"-18UNF-2A	28.45	29.4	34	32.4	5/8"-18UNF-2B	19	17.027 17.000	7.5	1.2
HDM 405	55	19	¾"-16UNF-2A	1 ¼"	34.3	43	40	¾"-16UNF-2B	19.5	20.033 20.000	8.5	1.2
HDM 406	54	22	1"-14UNS-2A	40.6	38.9	50	46.9	1"-14UNS-2B	22.5	36.039 36.000	10.5	1.2
HDM 408	63	22	1 ½"-UNF-2A	56	55	68	64.7	1 ½"-UNF-2B	22.5	40.064 40.000	10.5	1.2
HDM 411	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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



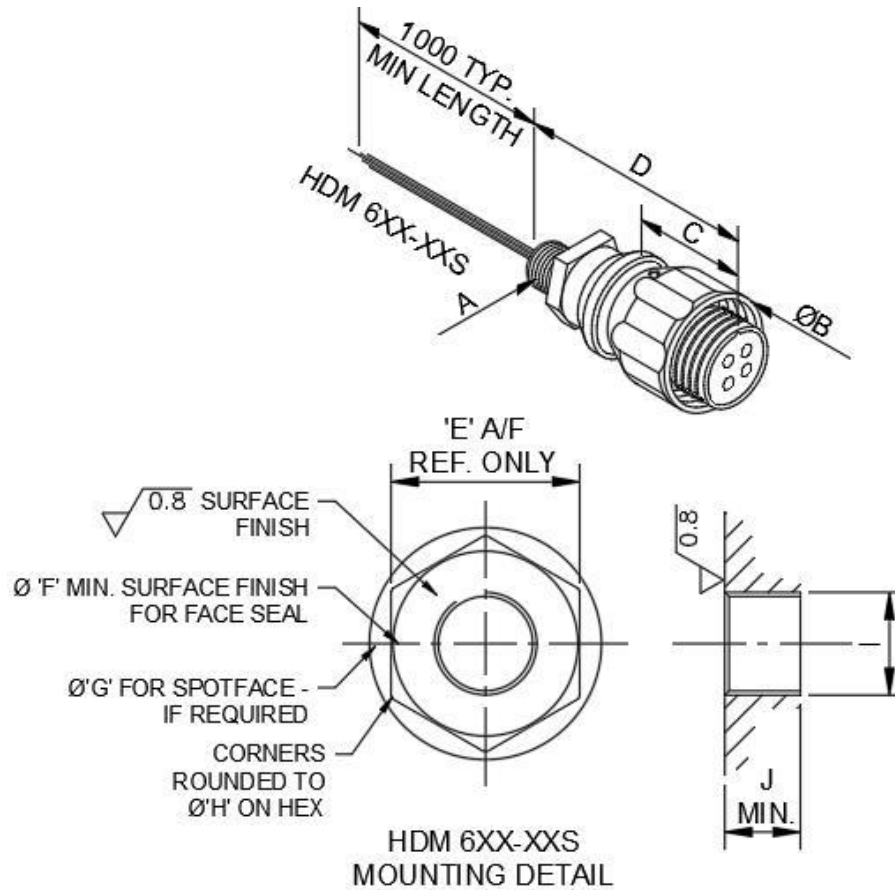
Shell/Dim.	ØA	B	C	D	E	F	G	H	ØI	J	ØK	L	M
HDM 502	16	18	24.5	38.5	6	16	20	15.2	28	M2.5	16.027 16.000	16.5	1.5
HDM 503	13	25	25	65	4	9.5	31.75	21.8	24	M4	12.843 12.816	10	1.3 1
HDM 504	16	35	35	XX*	6	12	38	25.4	29	M5	15.627 15.600	12.5	1.3 1
HDM 505	19	45	40	86	6	12	44.5	31.75	32	M6	19.033 19.000	12.5	1.3 1
HDM 506	25	50	XX*	XX*	6	12	50.8	38.1	38.5	M6	25.453 25.420	12.5	1.3 1
HDM 508	38	64	48	92.5	9.5	16	66.8	50.8	51	M8	38.139 38.100	16.5	1.3 1
HDM 511	60	85	54.5	114	14	18	89	69.85	74	M10	60.371 60.325	18.5	1.3 1

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



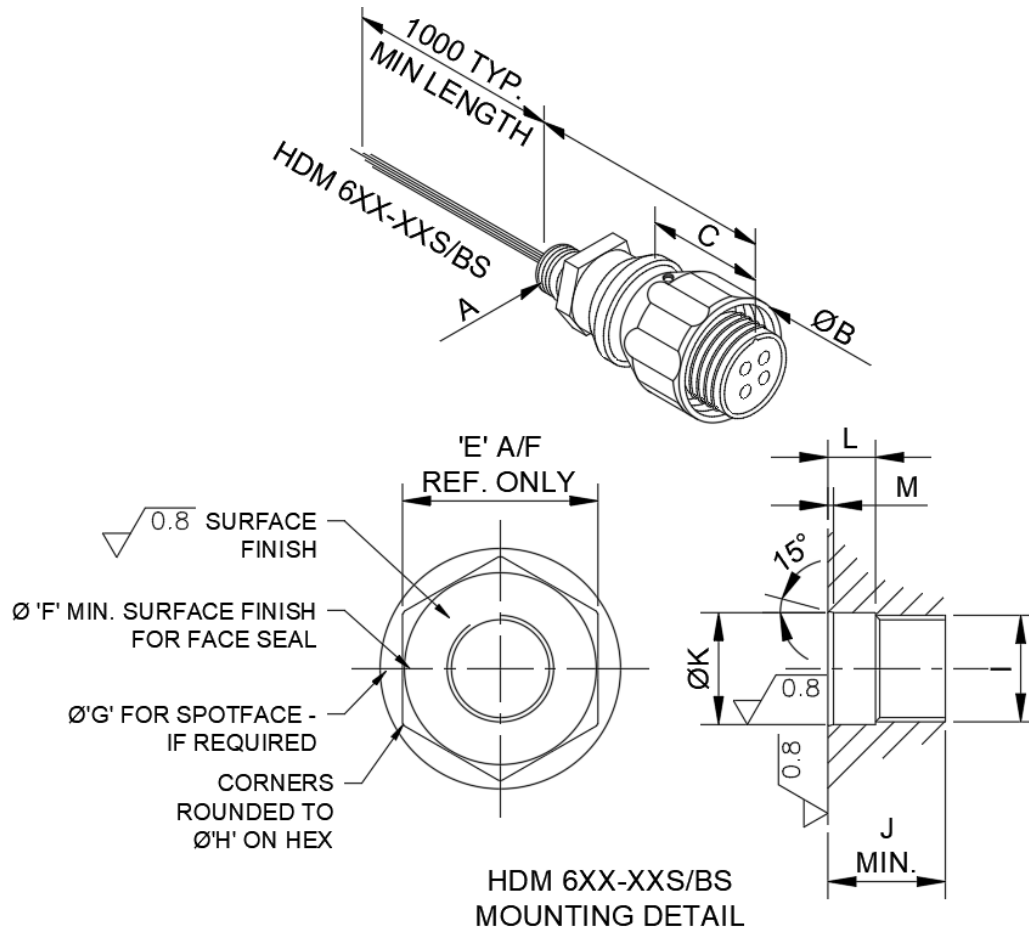
Shell/Dim.	ØA	B	C	D	E	F	G	H	ØI	J	ØK	L	M
HDM 502	16	18	24.5	38.5	6	21.5	20	15.2	28	M2.5	16.027 16.000	28	1.5
HDM 503	13	25	25	65	4	9.5	31.75	21.8	24	M4	12.823 12.796	10	1.3 1
HDM 504	16	35	35	XX*	6	12	38	25.4	29	M5	15.627 15.600	12.5	1.3 1
HDM 505	19	45	40	86	6	12	44.5	31.75	32	M6	19.033 19.00	12.5	1.3 1
HDM 506	25	50	XX*	XX*	6	12	50.8	38.1	38.5	M6	25.453 25.420	12.5	1.3 1
HDM 508	38	64	48	92.5	9.5	16	66.8	50.8	51	M8	38.139 38.100	16.5	1.3 1
HDM 511	60	85	54.5	114	14	18	89	69.85	74	M10	60.371 60.325	18.5	1.3 1

HDM 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	63.5	17	29	29	19.2	M15x1-6H	18.5
HDM 603	M14x1-6g	25	26	XX*	24	26	30	27	M14x1-6H	19.5
HDM 604	5/8"-18UNF-2A	35	38	XX*	28.45	29.4	34	32.4	5/8"-18UNF-2B	19
HDM 605	3/4"-16UNF-2A	45	43	67	1 1/4"	34.3	43	40	3/4"-16UNF-2B	19.5
HDM 606	1"-14UNS-2A	50	40	XX*	40.6	38.9	50	46.9	1"-14UNS-2B	22.5
HDM 608	1 1/2"-UNF-2A	64	50	132	56	55	68	64.7	1 1/2"-UNF-2B	22.5
HDM 611	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

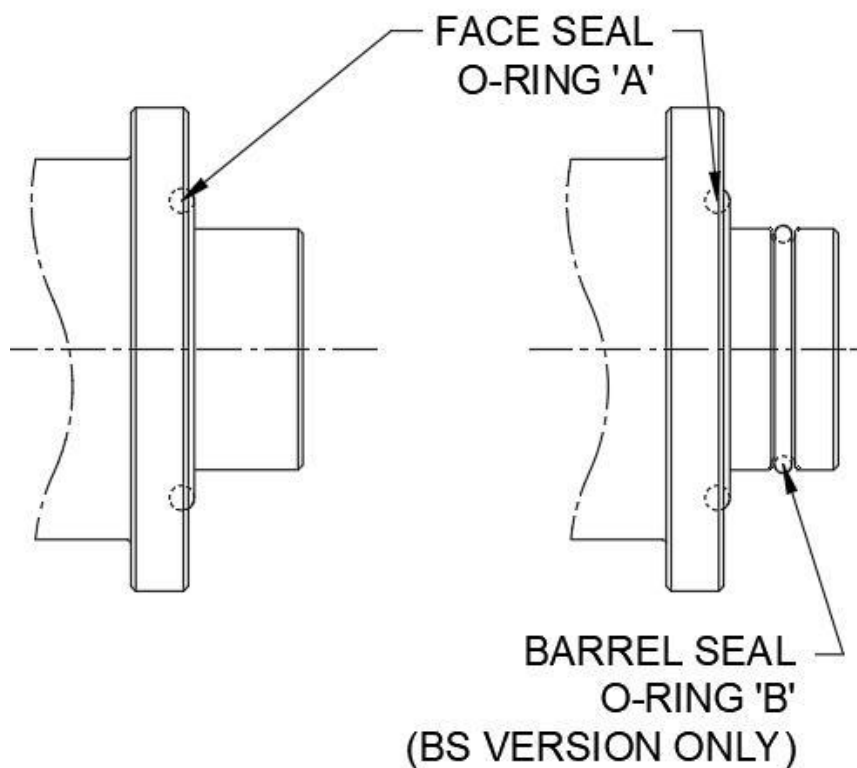
HDM Series 6: Female Bulkhead Connector [BS: With barrel sealing]



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	6.5	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*	28.5	29	34	32	5/8"-18UNF-2B	19	17.027 17.000	7.5	1.2 1
HDM 605	¾"-16UNF-2A	45	43	67	1 ¼"	34	43	40	¾"-16UNF-2B	20	20.033 20.000	8.5	1.2 1
HDM 606	1"-14UNS-2A	50	40	XX*	40.6	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
HDM 611	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

O-Ring Selection for Panel Mount Connectors

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

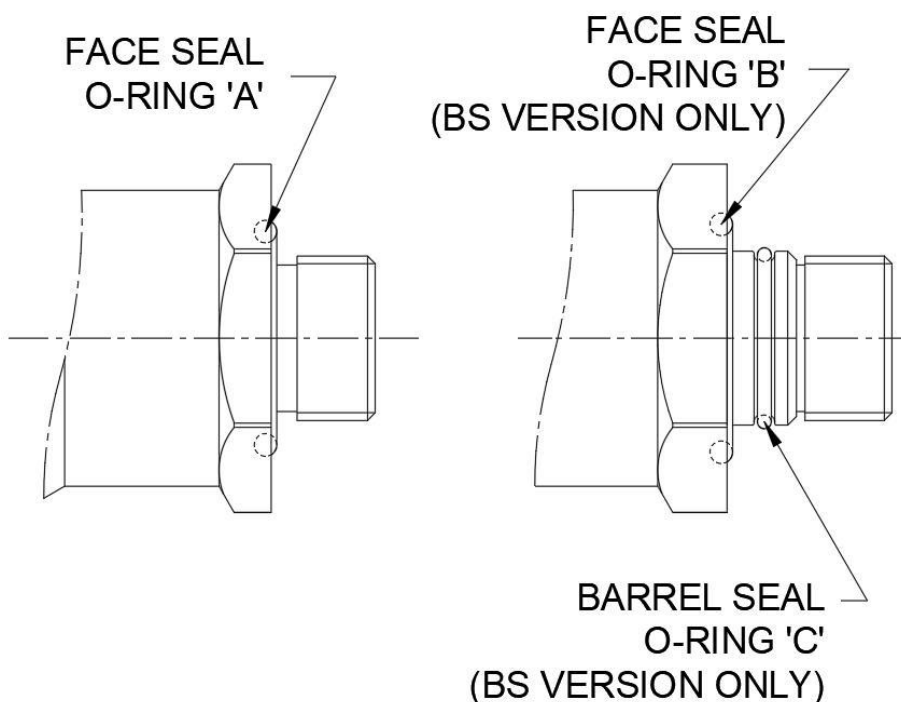


O-Ring Standard Material: Nitrile (70 Shore A). Other materials available on request.

Shell/Dim.	FACE SEAL 'O'-RING 'A'	BARREL SEAL 'O'-RING 'B'
HDM X02	N/A	BS4518: 0116-24 (202-638) – 2 off
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]



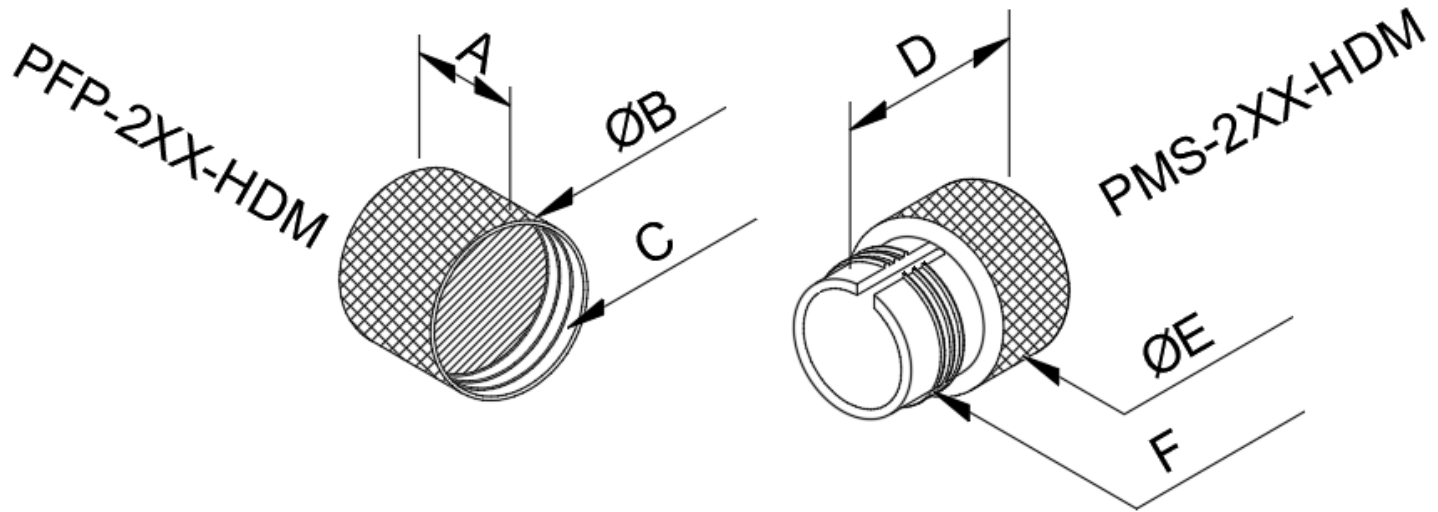
O-Ring Standard Material: Nitrile (70 Shore A). Other materials available on request.

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
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
HDM X11	N/A	N/A	N/A

Dust Cap Selection for HDM Series Connectors

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

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



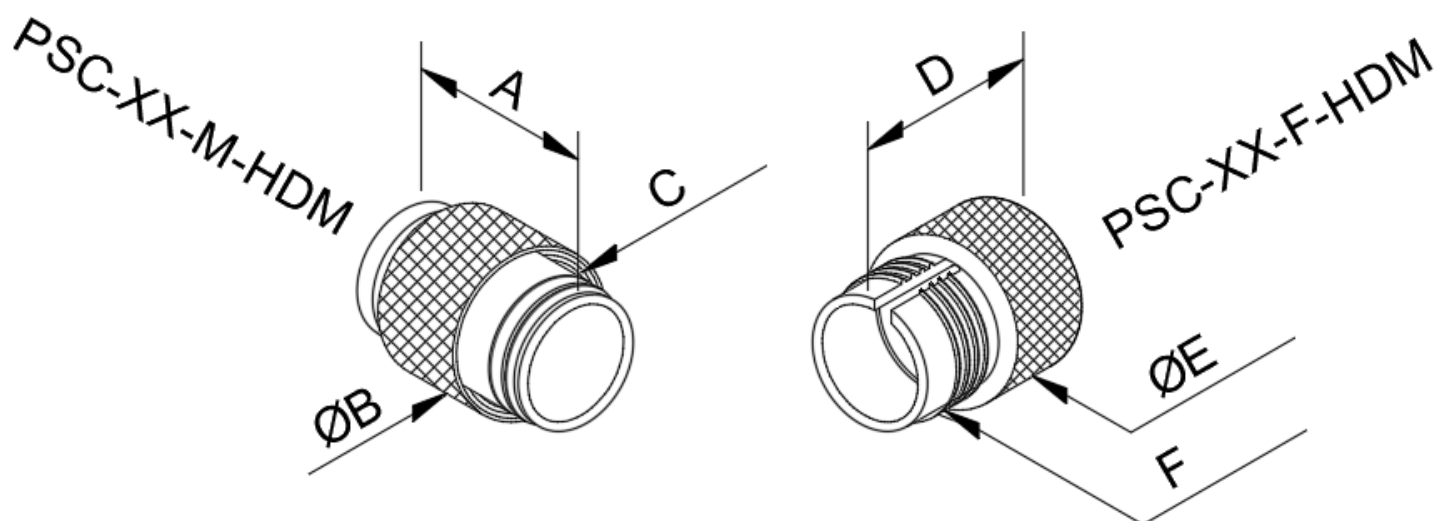
Dust Cap Standard Material: Acetal Co-Polymer (Colour: Black)

Shell/Dim.	PFP			PMS		
	A	ØB	C	D	ØE	F
HDM 02	16	20	M16x1-6H	30	18	M16x1-6g
HDM 03	20.2	24.9	7/8"-14UNF-2B	25	25	7/8"-14UNF-2A
HDM 04	35	38.1	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	50.8	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 for HDM Series Connectors

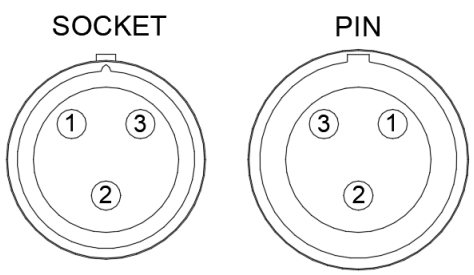
[PSC-XX-M – to fit connectors without Coupling Ring – 1, 3, 4, 7, 9, 10 & 14 Series]

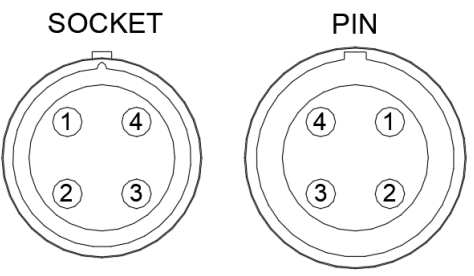
[PSC-XX-F – to fit connectors with Coupling Ring – 2, 5, 6 & 8 Series]



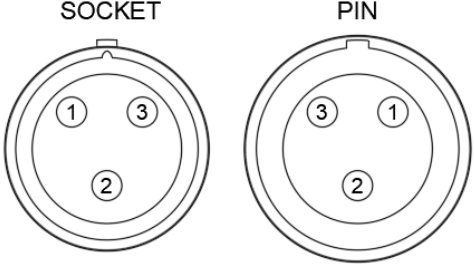
Shell/Dim.	PSC-XX-M-HDM			PSC-XX-F-HDM		
	A	ØB	C	D	ØE	F
HDM X02	28	18	M16x1-6H	30	18	M16x1-6g
HDM X03	31	25	7/8"-14UNF-2B	29	25	7/8"-14UNF-2A
HDM X04	45	35	1-1/4"-9TPI-2B	43	36	1-1/4"-9TPI-2A
HDM X05	48.5	45	1-1/2"-9TPI-2B	50	45	1-1/2"-9TPI-2A
HDM X06	48.5	50	1-3/4"-9TPI-2B	52	50	1-3/4"-9TPI-2A
HDM X08	54	64	2-1/4"-9TPI-2B	55	63.5	2-1/4"-9TPI-2A
HDM X11	62.7	85	3"-9TPI-2B	58	85	3"-9TPI-2A

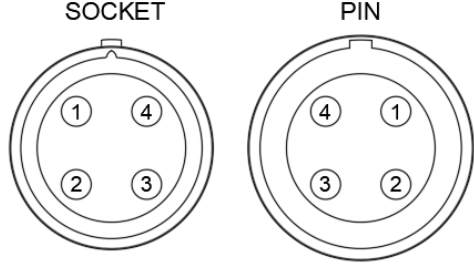
Hydro Bond Deck Mate (HDM) Shell Size 02 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views HDM X02 – 03 
Pin Size/ Current Rating:	Ø3.0 mm 9 Amps	Body	316 Stainless Steel	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Silicone Bronze	
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A	
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au	
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au	
Temperature Rating	-20°C to +60°C	Insert	PEEK	
Conductor Tail Size	19 AWG/ 0.75 sq. mm	Conductor Tails	SPEC44 (1 m)	
Solder Bucket Size	Ø1.4 mm	'O'-Rings	Nitrile 70	

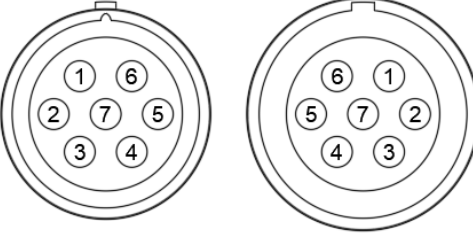
Electrical and Environmental		Standard Material Spec.		Face Views HDM X02 – 04 
Pin Size/ Current Rating:	Ø3.0 mm 7 Amps	Body	316 Stainless Steel	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Silicone Bronze	
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A	
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au	
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au	
Temperature Rating	-20°C to +60°C	Insert	PEEK	
Conductor Tail Size	19 AWG/ 0.75 sq. mm	Conductor Tails	SPEC44 (1 m)	
Solder Bucket Size	Ø1.4 mm	'O'-Rings	Nitrile 70	

Hydro Bond Deck Mate (HDM) Shell Size 03 Specifications

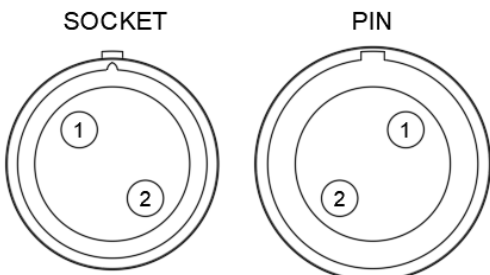
Electrical and Environmental		Standard Material Spec.		Face Views HDM X03 – 03 
Pin Size/ Current Rating:	Ø3.0 mm 9 Amps	Body	316 Stainless Steel	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Silicone Bronze	
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A	
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au	
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au	
Temperature Rating	-20°C to +60°C	Insert	PEEK	
Conductor Tail Size	19 AWG/ 0.75 sq. mm	Conductor Tails	SPEC44 (1 m)	
Solder Bucket Size	Ø1.4 mm	'O'-Rings	Nitrile 70	

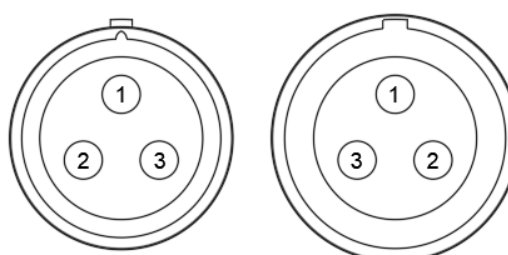
Electrical and Environmental		Standard Material Spec.		Face Views HDM X03 – 04 
Pin Size/ Current Rating:	Ø3.0 mm 7 Amps	Body	316 Stainless Steel	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Silicone Bronze	
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A	
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au	
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au	
Temperature Rating	-20°C to +60°C	Insert	PEEK	
Conductor Tail Size	19 AWG/ 0.75 sq. mm	Conductor Tails	SPEC44 (1 m)	
Solder Bucket Size	Ø1.4 mm	'O'-Rings	Nitrile 70	

Hydro Bond Deck Mate (HDM) Shell Size 03 Specifications

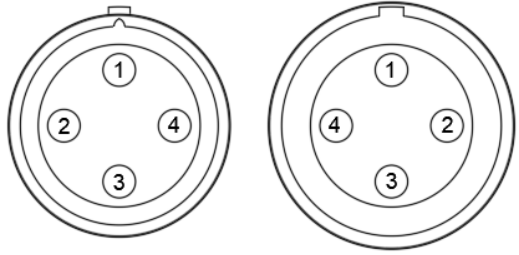
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø1.0 mm 3.5 Amps	Body	316 Stainless Steel	<u>HDM X03 – 07</u> SOCKET PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	20 AWG / 0.5 sq. mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø1.2 mm	'O'-Rings	Nitrile 70		

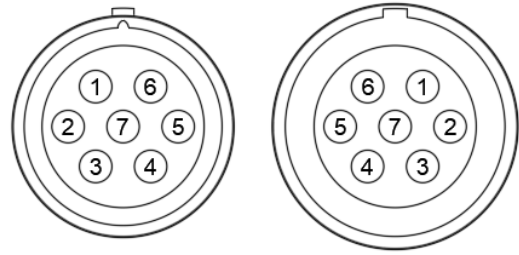
Hydro Bond Deck Mate (HDM) Shell Size 04 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø3.0 mm 35 Amps	Body	316 Stainless Steel	HDM X04 – 02 SOCKET PIN 	
Pin Voltage Rating:	1,500 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	10 AWG / 4.0 sq. mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø3.2 mm	'O'-Rings	Nitrile 70		

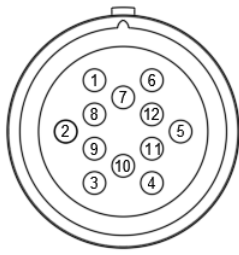
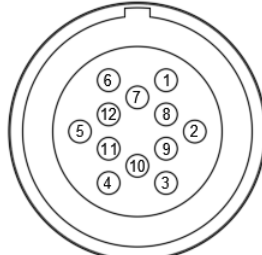
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø1.6 mm 9 Amps	Body	316 Stainless Steel	HDM X04 – 03 SOCKET PIN 	
Pin Voltage Rating:	1,500 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	19 AWG/ 0.75 sq. mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø1.4 mm	'O'-Rings	Nitrile 70		

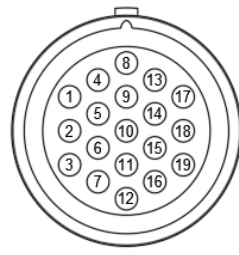
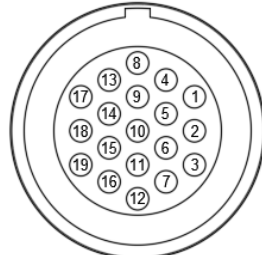
Hydro Bond Deck Mate (HDM) Shell Size 04 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø1.6 mm 10 Amps	Body	316 Stainless Steel	HDM X04 – 04 SOCKET PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	18 AWG / 1.0 sq. mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø1.6 mm	'O'-Rings	Nitrile 70		

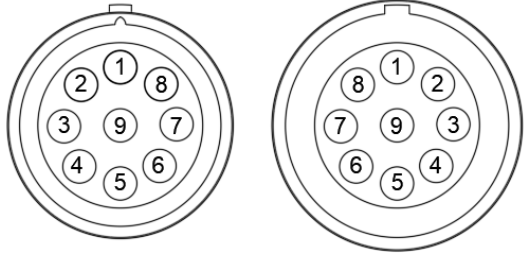
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø1.6 mm 8 Amps	Body	316 Stainless Steel	HDM X04 – 07 SOCKET PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	18 AWG / 1.0 sq. mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø1.6 mm	'O'-Rings	Nitrile 70		

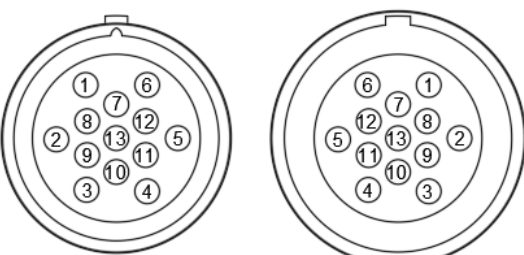
Hydro Bond Deck Mate (HDM) Shell Size 04 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø1.0 mm 3.5 Amps	Body	316 Stainless Steel	HDM X04 – 12 SOCKET  PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	20AWG / 0.5 sq. mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø1.2 mm	'O'-Rings	Nitrile 70		

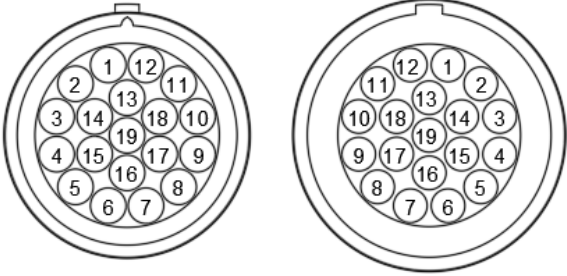
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø1.0 mm 3 Amps	Body	316 Stainless Steel	HDM X04 – 19 SOCKET  PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	20AWG / 0.5 sq. mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø1.2 mm	'O'-Rings	Nitrile 70		

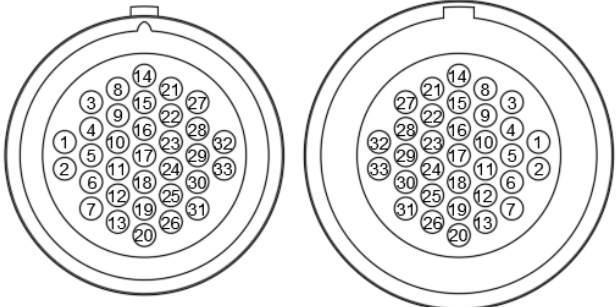
Hydro Bond Deck Mate (HDM) Shell Size 05 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø1.6 mm 7 Amps	Body	316 Stainless Steel	HDM X05 – 09 SOCKET PIN 	
Pin Voltage Rating:	1,500 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	18 AWG / 1.0 sq. mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø1.6 mm	'O'-Rings	Nitrile 70		

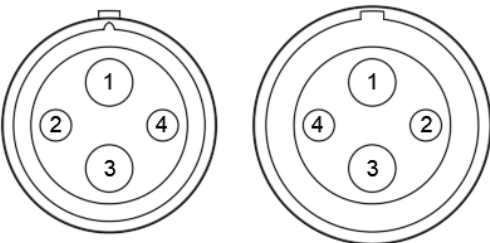
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø1.6 mm 5 Amps	Body	316 Stainless Steel	HDM X05 – 13 SOCKET PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	18 AWG / 1.0 sq. mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø1.6 mm	'O'-Rings	Nitrile 70		

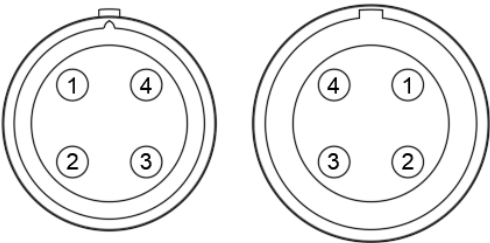
Hydro Bond Deck Mate (HDM) Shell Size 05 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø1.6 mm 3.5 Amps	Body	316 Stainless Steel	HDM X05 – 19 SOCKET PIN 	
Pin Voltage Rating:	1,500 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	18AWG / 1.0 sq. mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø1.6 mm	'O'-Rings	Nitrile 70		

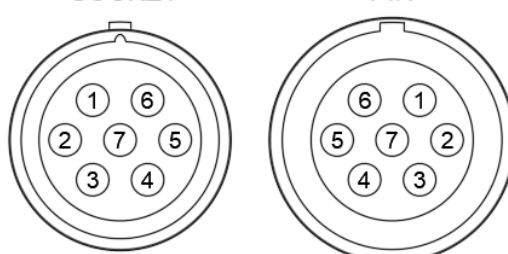
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø1.0 mm 2 Amps	Body	316 Stainless Steel	HDM X05 – 33 SOCKET PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	20AWG / 0.5 sq. mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø1.2 mm	'O'-Rings	Nitrile 70		

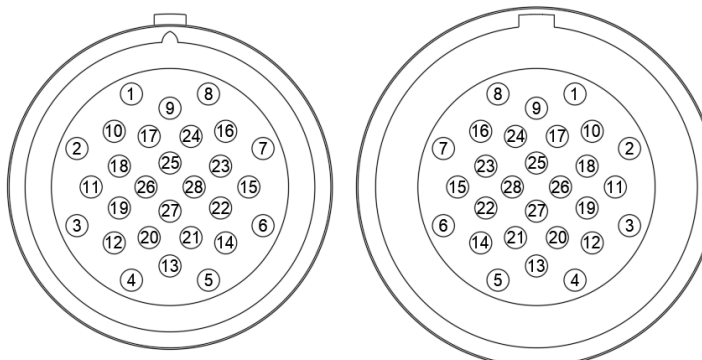
Hydro Bond Deck Mate (HDM) Shell Size 06 Specifications

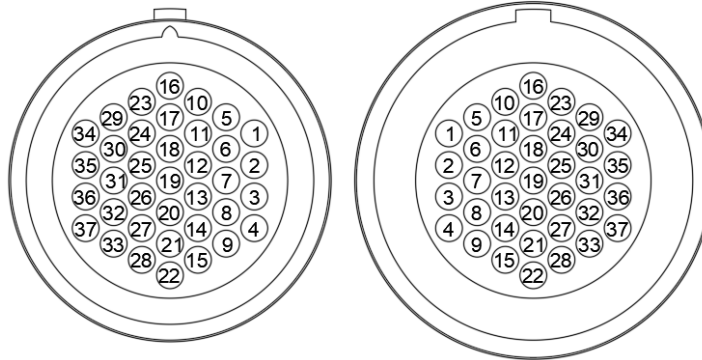
Electrical and Environmental		Standard Material Spec.		Face Views
Pin Size/ Current Rating:	Ø6.0 mm / Ø3.0 mm 95 / 20 Amps	Body	316 Stainless Steel	HDM X06 – 02-02 SOCKET PIN 
Pin Voltage Rating:	1,500 V RMS	Fix Ring	Aluminium Silicone Bronze	
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A	
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au	
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au	
Temperature Rating	-20°C to +60°C	Insert	PEEK	
Conductor Tail Size	25.0 / 4.0 sq. mm	Conductor Tails	SPEC44 (1 m)	
Solder Bucket Size	Ø5.85 mm / Ø2.5 mm	'O'-Rings	Nitrile 70	

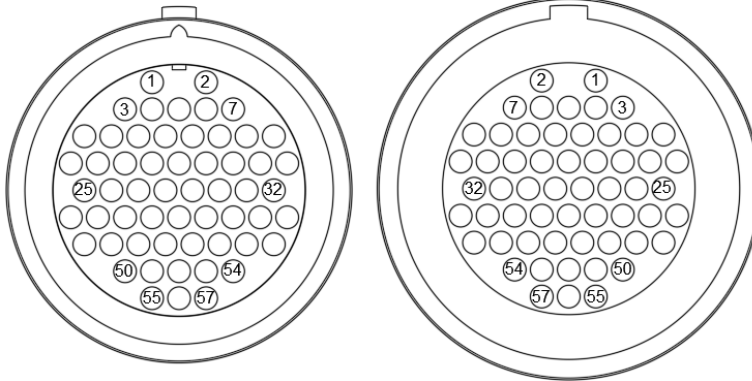
Electrical and Environmental		Standard Material Spec.		Face Views
Pin Size/ Current Rating:	Ø3.0 mm 20 Amps	Body	316 Stainless Steel	HDM X06 – 04 SOCKET PIN 
Pin Voltage Rating:	3,000 V RMS	Fix Ring	Aluminium Silicone Bronze	
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A	
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au	
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au	
Temperature Rating	-20°C to +60°C	Insert	PEEK	
Conductor Tail Size	12 AWG / 2.5 sq. mm	Conductor Tails	SPEC44 (1 m)	
Solder Bucket Size	Ø2.5 mm	'O'-Rings	Nitrile 70	

Hydro Bond Deck Mate (HDM) Shell Size 06 Specifications

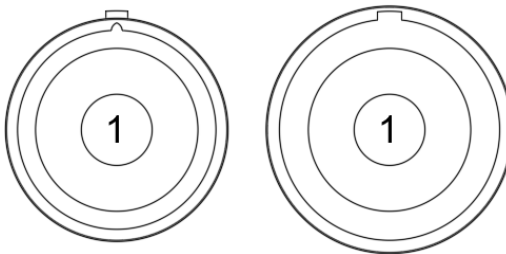
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø3.0 mm 16 Amps	Body	316 Stainless Steel	HDM X06 – 07 SOCKET PIN 	
Pin Voltage Rating:	1,500 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	12 AWG/2.5 sq.mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø2.5 mm	'O'-Rings	Nitrile 70		

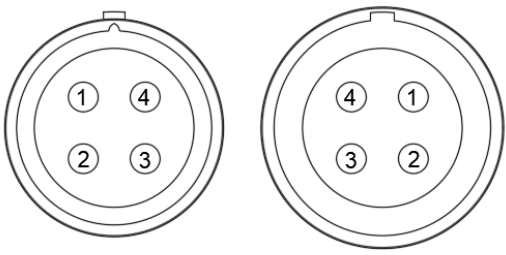
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø1.0 mm 3 Amps	Body	316 Stainless Steel	HDM X06 – 28 SOCKET PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	20 AWG / 0.5 sq. mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø1.2 mm	'O'-Rings	Nitrile 70		

Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø1.0 mm 2.5 Amps	Body	316 Stainless Steel	HDM X06 – 37 SOCKET PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	20 AWG / 0.5 sq. mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø1.2 mm	'O'-Rings	Nitrile 70		

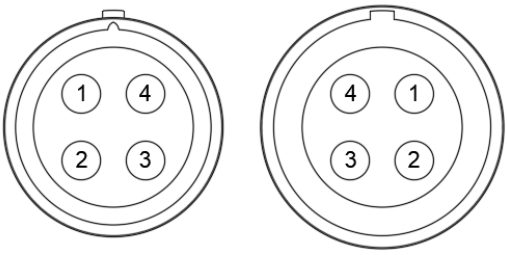
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø1.0 mm 2 Amps	Body	316 Stainless Steel	HDM X06 – 57 SOCKET PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	20 AWG / 0.5 sq. mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø1.2 mm	'O'-Rings	Nitrile 70		

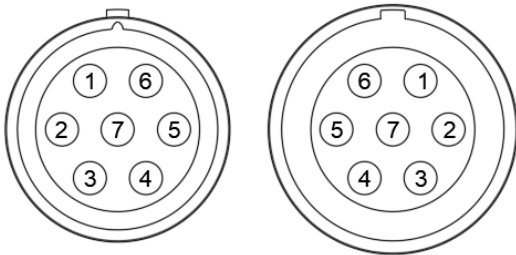
Hydro Bond Deck Mate (HDM) Shell Size 08 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø3.0 mm 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 Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	14 AWG	Conductor Tails	HV cable (1 m)		
Solder Bucket Size	Ø2.0 mm	'O'-Rings	Nitrile 70		

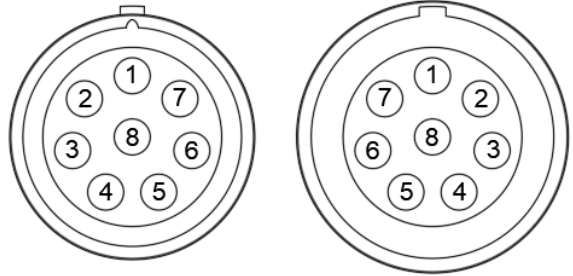
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø3.0 mm 20 Amps	Body	316 Stainless Steel	<u>HDM X08 – 04/HV</u> SOCKET PIN 	
Pin Voltage Rating:	3,300 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	14 AWG / 1.5 sq. mm	Conductor Tails	HV cable (1 m)		
Solder Bucket Size	Ø2.0 mm	'O'-Rings	Nitrile 70		

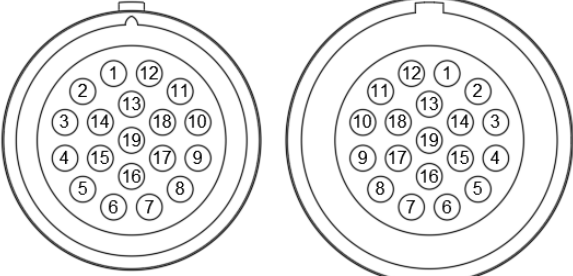
Hydro Bond Deck Mate (HDM) Shell Size 08 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø6.0 mm 60 Amps	Body	316 Stainless Steel	HDM X08 – 04 SOCKET PIN 	
Pin Voltage Rating:	1,500 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	25.0 sq. mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø5.85 mm	'O'-Rings	Nitrile 70		

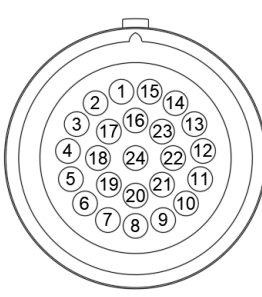
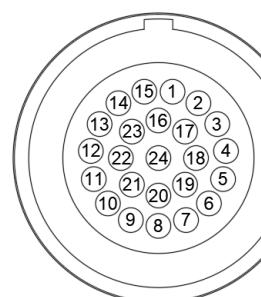
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø3.0 mm 16 Amps	Body	316 Stainless Steel	HDM X08 – 07 SOCKET PIN 	
Pin Voltage Rating:	1,500 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	14 AWG / 1.5 sq. mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø2.0 mm	'O'-Rings	Nitrile 70		

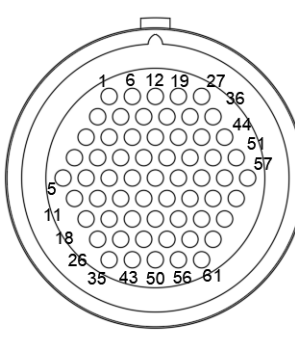
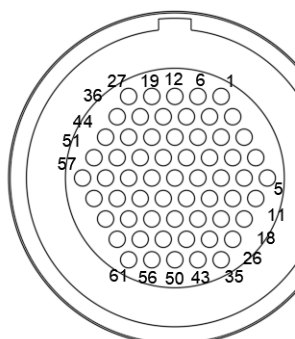
Hydro Bond Deck Mate (HDM) Shell Size 08 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø3.0 mm 15 Amps	Body	316 Stainless Steel	HDM X08 – 08 SOCKET PIN 	
Pin Voltage Rating:	1,500 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	12 AWG / 2.5 sq. mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø2.5 mm	'O'-Rings	Nitrile 70		

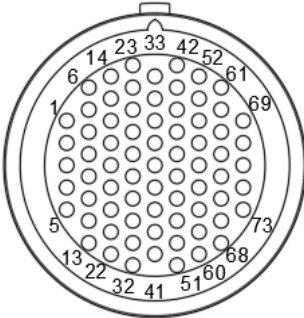
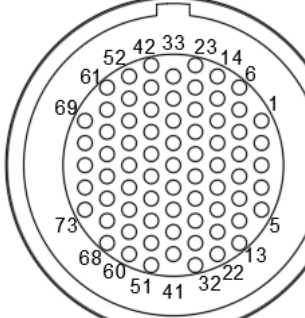
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø1.6 mm 5 Amps	Body	316 Stainless Steel	HDM X08 – 19 SOCKET PIN 	
Pin Voltage Rating:	1,500 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	18AWG / 1.0 sq. mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø1.6 mm	'O'-Rings	Nitrile 70		

Hydro Bond Deck Mate (HDM) Shell Size 08 Specifications

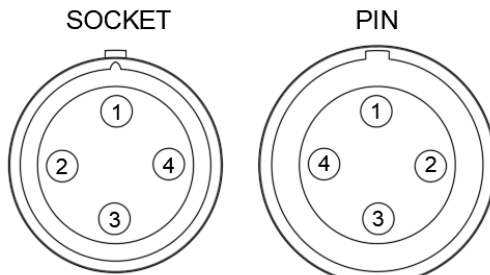
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø1.6 mm 4 Amps	Body	316 Stainless Steel	HDM X08 – 24 SOCKET  PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	18AWG / 1.0 sq. mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø1.6 mm	'O'-Rings	Nitrile 70		

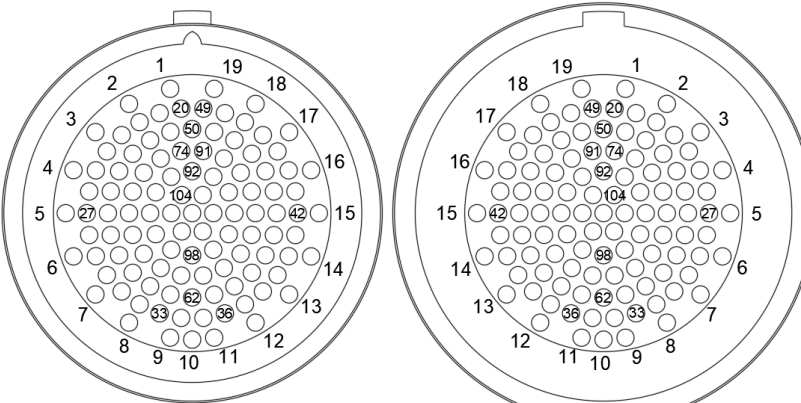
Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø1.0 mm 2 Amps	Body	316 Stainless Steel	HDM X08 – 61 SOCKET  PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	20 AWG / 0.5 sq. mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø1.2 mm	'O'-Rings	Nitrile 70		

Hydro Bond Deck Mate (HDM) Shell Size 08 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views	
Pin Size/ Current Rating:	Ø1.0 mm 2 Amps	Body	316 Stainless Steel	HDM X08 – 73 SOCKET  PIN 	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Silicone Bronze		
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A		
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au		
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au		
Temperature Rating	-20°C to +60°C	Insert	PEEK		
Conductor Tail Size	20 AWG / 0.5 sq. mm	Conductor Tails	SPEC44 (1 m)		
Solder Bucket Size	Ø1.2 mm	'O'-Rings	Nitrile 70		

Hydro Bond Deck Mate (HDM) Shell Size 11 Specifications

Electrical and Environmental		Standard Material Spec.		Face Views HDM X11 – 04/HV SOCKET PIN 
Pin Size/ Current Rating:	Ø3.0 mm 8 Amps	Body	316 Stainless Steel	
Pin Voltage Rating:	4,500 V RMS	Fix Ring	Aluminium Silicone Bronze	
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A	
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au	
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au	
Temperature Rating	-20°C to +60°C	Insert	PEEK	
Conductor Tail Size	10 AWG / 4.0 sq. mm	Conductor Tails	HV Cable (1m)	
Solder Bucket Size	Ø3.2 mm	'O'-Rings	Nitrile 70	

Electrical and Environmental		Standard Material Spec.		Face Views HDM X11 – 110 SOCKET PIN 
Pin Size/ Current Rating:	Ø1.0 mm 1 Amp	Body	316 Stainless Steel	
Pin Voltage Rating:	1,000 V RMS	Fix Ring	Aluminium Silicone Bronze	
Contact to Contact IR:	>1 GOhm @1kVDC	Back Shell	N/A	
Contact to Body IR:	>1 GOhm @1kVDC	Contact Pin	CZ121/Au	
Mated Depth Rating:	3,450 MSW	Socket	CZ121/Au	
Temperature Rating	-20°C to +60°C	Insert	PEEK	
Conductor Tail Size	20AWG/ 0.5 sq. mm	Conductor Tails	SPEC44 (1 m)	
Solder Bucket Size	Ø1.2 mm	'O'-Rings	Nitrile 70	