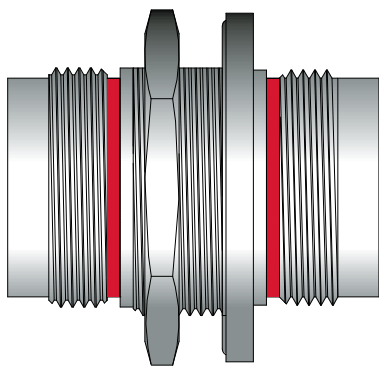


SERIES 802, 3500 PSI SUBMERSIBLE AquaMouse Connectors and Cables



Hermetic Jam Nut Mount Bulkhead Feedthrough with Pin-Pin, Pin-Socket, or Socket-Socket



NOTES

1. For pin-pin or socket-socket feedthru, power applied to one contact will result in power to the contact directly opposite, regardless of contact identifications
2. Mates with 802 series plugs
3. Electrical safety limits and maximum usage pressure to be determined by the customer
4. Overall lengths will increase by approximately .50 (12.7) for #8 contact arrangements
5. Standard arrangements with signal/power contacts only. Consult factory for special contacts (Co-Ax, Quadax, Thermocouples, etc)

TEST REQUIREMENTS

- Hermeticity: 1×10^{-7} ccHe/sec at 1 atm
- DWV:
 - » #23 contacts: 750 VAC pin-to-pin and pin-to-shell without breakdown
 - » #20 contacts: 1000 VAC pin-to-pin and pin-to-shell without breakdown
 - » #16, #12, #8 contacts: 1800 VAC pin-to-pin and pin-to-shell without breakdown
- Insulation resistance: 5,000 megohms minimum at 500 VDC
- Hydrostatic pressure rating: 1000 PSI open face, 3500 PSI fully mated and properly molded

Series 802 Hermetic Bulkhead Feedthrough Connectors provide a separable hermetic connection on both sides of a mounting panel. 100% tested to meet 1×10^{-7} ccHe/sec @ 1 atm helium leak rate. Gold plated iron alloy contacts and compression glass dielectric material. The passivated, stainless steel connector shell offers excellent corrosion protection. Available with pin-to-pin, pin-to-skt, or vskt-to-skt contacts. Power applied to a given contact on one end will result in power to contact directly opposite, regardless of contact identification letter.

How To Order									
Sample Part Number		802-055	07	Z1	15-85	P	S	A	-01
Series	802-055 = Bulkhead Feed-Thru								
Shell Style	02 = Box Mount with Accessory Thread 07 = Jam Nut with Accessory Thread								
Material and Finish	Z1 = 316 Stainless Steel / Passivated ZL = Electrodeposited Nickel								
Insert Arrangement	See Contact Arrangements pages M-8 thru M-32								
Contact Style	Jam Nut Side	P = Pin Face		S = Socket Face					
	Opposite Side	P = Pin Face		S = Socket Face					
Polarization (See Table II)		A = Normal D = Pos. D	B = Pos. B E = Pos. E	C = Pos. C F = Pos. F					
Panel Accommodation		See Table III							

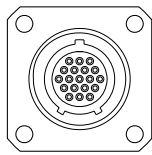
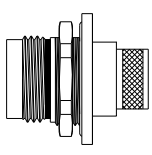
Table I: Shell Style	
	
-02 Square Flange	-07 Jam-Nut for Rear Panel Mounting

Table II: Keyway Positions		
Key Position	Key Rotation	
	A°	B°
A Normal	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°

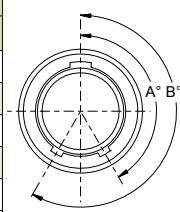
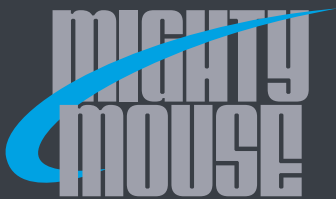


Table III: Panel Accommodation Thickness			
Code	K Panel Thickness	L Dim, OAL	M Dim, OAL
-01	.125 (3.18) .062 (1.57)	1.250 (31.75)	1.375 (34.93)
-02	.250 (6.35) .062 (1.57)	1.375 (34.93)	1.500 (38.10)
-03	.500 (12.70) .062 (1.57)	1.625 (41.28)	1.750 (44.45)

DWV Rating	
Contact Sizes	Test Voltage
23	750 VAC
20 HD	1000 VAC
20, 16, 12, 8	1800 VAC

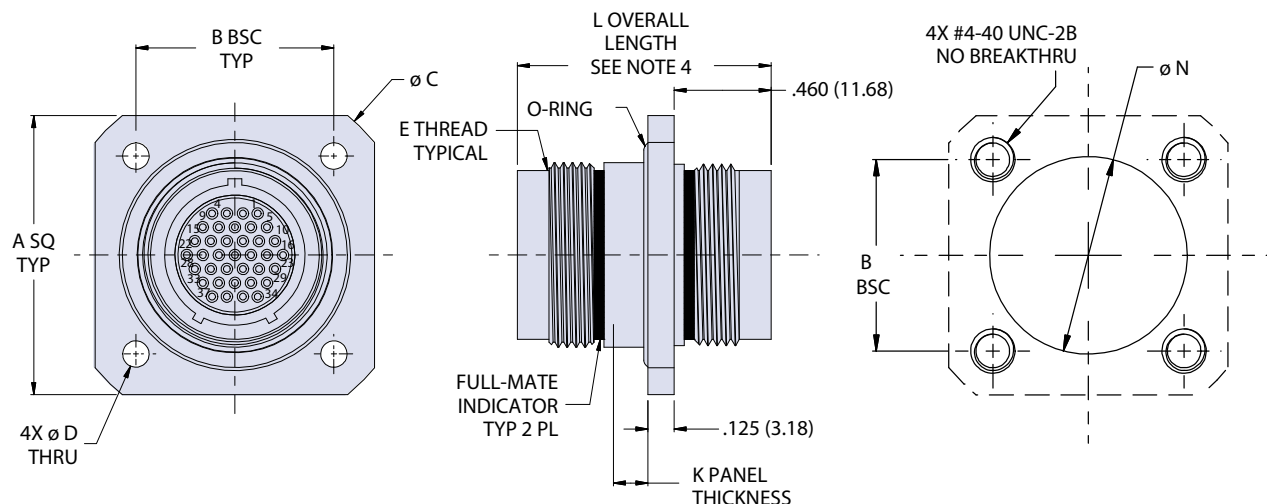


SERIES 802, 3500 PSI SUBMERSIBLE AquaMouse Connectors and Cables



Hermetic Jam Nut Mount Bulkhead Feedthrough with Pin-Pin, Pin-Socket, or Socket-Socket

BOX MOUNT, BULKHEAD FEEDTHRU - SHELL STYLE 02



Dimensions						
Shell Size	A Sq.	B Bsc	Ø C	Ø D Thru Holes	E Thread	Ø N
5	0.885 (22.48)	0.600 (15.24)	1.150 (29.21)	.130 (3.30) .120 (3.05)	.4375-28 UNEF-2A	.445 (11.30) .440 (11.18)
6	1.031 (26.19)	0.700 (17.78)	1.300 (33.02)	.130 (3.30) .120 (3.05)	.5625-20 UN-2A	.570 (14.48) .565 (14.35)
7	1.072 (27.23)	0.750 (19.05)	1.375 (34.93)	.130 (3.30) .120 (3.05)	.6250-20 UN-2A	.632 (16.05) .627 (15.93)
8	1.135 (28.83)	0.800 (20.32)	1.450 (36.83)	.130 (3.30) .120 (3.05)	.6875-20 UN-2A	.695 (17.65) .690 (17.53)
9	1.195 (30.35)	0.825 (20.96)	1.500 (38.10)	.130 (3.30) .120 (3.05)	.7500-20 UNEF-2A	.757 (19.23) .752 (19.10)
10	1.260 (32.00)	0.875 (22.23)	1.625 (41.28)	.130 (3.30) .120 (3.05)	.8125-20 UNEF-2A	.820 (20.83) .815 (20.70)
12	1.323 (33.60)	0.938 (23.83)	1.700 (43.18)	.130 (3.30) .120 (3.05)	.8750-20 UNEF-2A	.882 (22.40) .887 (22.53)
14	1.510 (38.35)	1.125 (28.58)	1.900 (48.26)	.130 (3.30) .120 (3.05)	1.0625-20 UN-2A	1.070 (27.18) 1.065 (27.05)
15	1.573 (39.95)	1.188 (30.18)	2.063 (52.40)	.130 (3.30) .120 (3.05)	1.1875-20 UN-2A	1.195 (30.35) 1.190 (30.23)
21	1.750 (44.45)	1.375 (34.93)	2.250 (57.15)	.130 (3.30) .120 (3.05)	1.4375-20 UN-2A	1.445 (36.70) 1.440 (36.58)

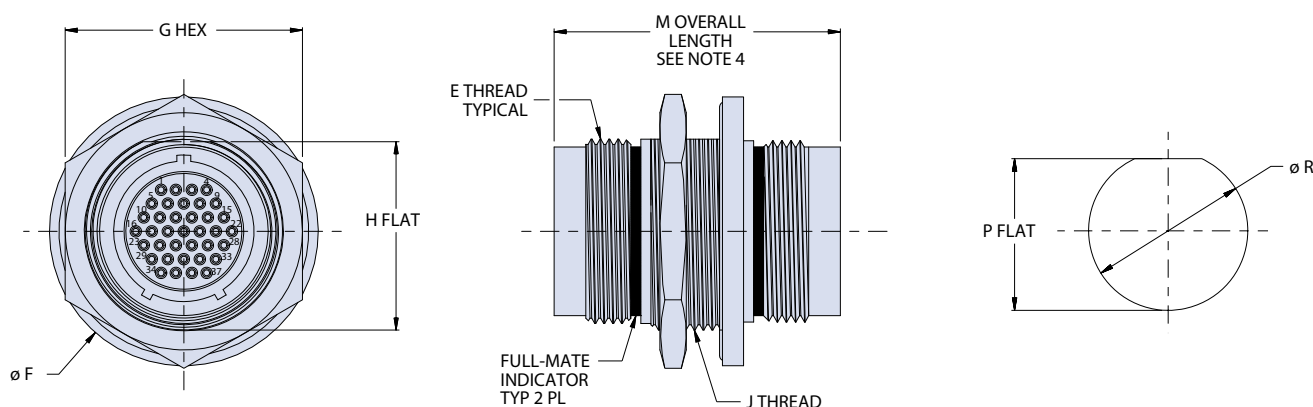


SERIES 802, 3500 PSI SUBMERSIBLE AquaMouse Connectors and Cables



Hermetic Jam Nut Mount Bulkhead Feedthrough with Pin-Pin, Pin-Socket, or Socket-Socket

JAM NUT MOUNT, BULKHEAD FEEDTHRU - SHELL STYLE 07



Dimensions							
Shell Size	E Thread	Ø F	G Hex	H Flat	J Thread	P Flat	Ø R
5	.4375-28 UNEF-2A	0.885 (22.48)	0.688 (17.48)	.469 (11.91) .463 (11.76)	.5000-32 UN-2A	0.475 (12.07) 0.471 (11.96)	0.510 (12.95) 0.505 (12.83)
6	.5625-20 UN-2A	1.010 (25.65)	0.812 (20.62)	.594 (15.09) .588 (14.94)	.6250-20 UN-2A	0.605 (15.37) 0.601 (15.27)	0.635 (16.13) 0.630 (16.00)
7	.6250-20 UN-2A	1.072 (27.23)	0.875 (22.23)	.656 (16.66) .650 (16.51)	.6875-28 UN-2A	0.664 (16.87) 0.660 (16.76)	0.698 (17.73) 0.693 (17.60)
8	.6875-20 UN-2A	1.135 (28.83)	0.938 (23.83)	.729 (18.52) .725 (18.42)	.7500-28 UN-2A	0.716 (18.19) 0.712 (18.08)	0.760 (19.30) 0.755 (19.18)
9	.7500-20 UNEF-2A	1.195 (30.35)	1.000 (25.40)	.781 (19.84) .775 (19.69)	.8125-28 UN-2A	0.787 (19.99) 0.783 (19.89)	0.822 (20.88) 0.817 (20.75)
10	.8125-20 UNEF-2A	1.260 (32.00)	1.000 (25.40)	.830 (21.08) .824 (20.93)	.8750-28 UN-2A	0.837 (21.26) 0.833 (21.16)	0.885 (22.48) 0.880 (22.35)
12	.8750-20 UNEF-2A	1.322 (33.58)	1.125 (28.58)	.893 (22.68) .887 (22.53)	.9375-28 UN-2A	0.901 (22.89) 0.897 (22.78)	0.948 (24.08) 0.943 (23.95)
14	1.0625-20 UN-2A	1.510 (38.35)	1.312 (33.32)	1.080 (27.43) 1.074 (27.28)	1.1250-28 UN-2A	1.087 (27.61) 1.083 (27.51)	1.135 (28.83) 1.130 (28.70)
15	1.1875-20 UN-2A	1.572 (39.93)	1.375 (34.93)	1.143 (29.03) 1.137 (28.88)	1.1875-28 UN-2A	1.157 (29.39) 1.153 (29.29)	1.198 (30.43) 1.193 (30.30)
21	1.4375-20 UN-2A	1.940 (49.28)	1.700 (43.18)	1.467 (37.26) 1.463 (37.16)	1.5000-28 UN-2A	1.480 (37.59) 1.476 (37.49)	1.510 (38.35) 1.505 (38.23)