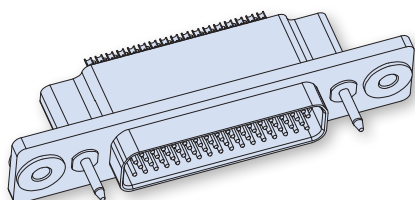


**790-073P**  
**Crimp Terminated Rear Panel**  
**Float Mount Receptacles, Solder Cup Pin Contacts**  
**How To Order**



## 790-073P Rear Panel Float Mount Receptacles

### SOLDER CUP PIN CONTACTS WITH CRIMP TERMINATION



790-073P connectors are equipped with rear-panel float mounting assemblies to provide additional mounting leeway in rack and panel applications. These connectors feature machined aluminum shells and fluorosilicone face seals. Contacts are rear-release snap-in solder cup type. Connectors are supplied with solder cup contacts packaged separately. Size #23 signal pins accept up to #22 AWG wire. Size #16 contacts accept #16-18 AWG wire. Size #12 contacts accept #12-14 AWG wire. Size 12 and 16 cavities also accept coaxial contacts purchased separately. Attach optional shielding adapters (799-016) for EMI protection.

#### HOW TO ORDER

##### Sample Part Number

**790-073P**

**H-66**

**M**

**P**

##### Part Number

**790-073P**  
Rear Panel  
Float Mounted  
Receptacle with  
Solder Cup Pin  
Contacts

##### Shell Size - Insert Arrangements

See Table I for Available Insert Arrangements

To order a connector without size #16 or #12 power pins, substitute "W" instead of "P" in the insert arrangement.

Example:

**36P2** is supplied with 2 power pins.

**36W2** is supplied less the power pins.

See Section B for coaxial contacts purchased separately.

##### Shell Finish

**M**

Electroless Nickel  
*general purpose applications*

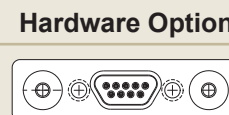
**MT**

Nickel-PTFE  
1000 Hour Grey™  
*maximum corrosion protection and durability*  
*(non-reflective grey)*

**ZNU**

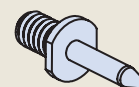
Zinc-Nickel with Black Chromate  
*tactical applications*  
*(non-reflective black)*

Additional shell finishes are listed on page C-9.



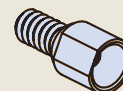
**N**

No Hardware



**G**

Guide Pin



**S**

Female Guide Socket

#### SPECIFICATIONS

|                                 |                                           |
|---------------------------------|-------------------------------------------|
| Current Rating                  | #23 5 AMPS, #16 13 A., #12 23 A.          |
| Dielectric Withstanding Voltage | #23 750 VAC RMS, #12 and #16 1800 VAC RMS |
| Insulation Resistance           | 5000 megohms minimum                      |
| Operating Temperature           | -65° C. to +150° C.                       |
| Shock                           | 300 g.                                    |
| Vibration                       | 20 g.                                     |

#### MATERIALS AND FINISHES

|                 |                                                                |
|-----------------|----------------------------------------------------------------|
| Shell           | Aluminum alloy                                                 |
| Contacts        | Copper alloy, 50 microinches gold plated, stainless steel hood |
| Insulators      | Liquid crystal polymer (LCP)                                   |
| Retention Clips | Beryllium copper alloy                                         |
| Grommet         | Fluorosilicone rubber                                          |
| Hardware        | 300 series stainless steel                                     |

Dimensions in Inches (millimeters) are subject to change without notice.

# 790-073P

## Crimp Terminated Rear Panel

### Float Mount Receptacles, Solder Cup Pin Contacts

#### How To Order

Table 1 Contact Arrangements

| Layout | Contact Quantity |     |  | Face View |
|--------|------------------|-----|--|-----------|
| #23    | #16              | #12 |  |           |
| A-5    | 5                |     |  |           |
| B-2P2  | 2                |     |  |           |
| B-9    | 9                |     |  |           |
| C-13   | 13               |     |  |           |
| D-15   | 15               |     |  |           |
| D-3P3  | 3                |     |  |           |
| D-7P2  | 5                | 2   |  |           |
| E-11P2 | 9                | 2   |  |           |
| E-19   | 19               |     |  |           |
| E-7P3  | 4                | 3   |  |           |
| F-15P2 | 13               | 2   |  |           |
| F-23   | 23               |     |  |           |
| F-5P5  | 5                |     |  |           |
| G-33   | 33               |     |  |           |
| H-10P4 | 6                | 4   |  |           |
| H-29P7 | 22               | 7   |  |           |
| H-36P2 | 34               | 2   |  |           |
| H-54P2 | 52               | 2   |  |           |
| H-5P5  |                  | 5   |  |           |
| H-66   | 66               |     |  |           |
| J-17P4 | 13               | 4   |  |           |
| J-25P2 | 23               | 2   |  |           |
| J-33   | 33               |     |  |           |
| J-7P7  | 7                |     |  |           |
| K-27P4 | 23               | 4   |  |           |
| K-35P2 | 33               | 2   |  |           |
| K-43   | 43               |     |  |           |
| K-9P9  | 9                |     |  |           |
| L-6P6  |                  | 6   |  |           |
| L-78   | 78               |     |  |           |
| M-102  | 102              |     |  |           |

CROSS-SECTIONAL VIEW OF 790-073P

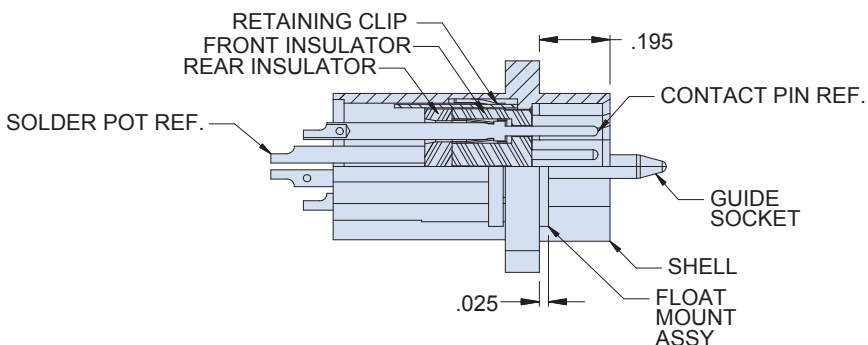
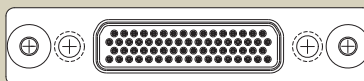
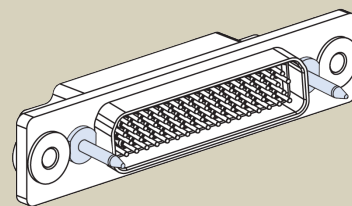


TABLE 2 HARDWARE OPTION

**N****No Mating Hardware**

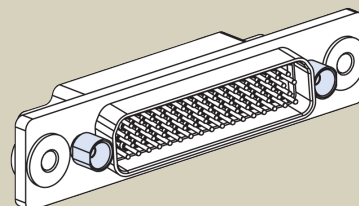
Connector is supplied with threaded holes. Shell size M has #8-32 threads, shell sizes H and L have #6-32 threads, other sizes have #4-40 threads. Thread depth is .150" (3.8).

**G****Guide Pins**

Connector is supplied with stainless steel non-removable guide pins. Mates with type "S" guide sockets on corresponding receptacle connector.

**S****Guide Sockets**

Connector is supplied with stainless steel non-removable bushings. Mates with type "G" guide pins on corresponding receptacle connector.

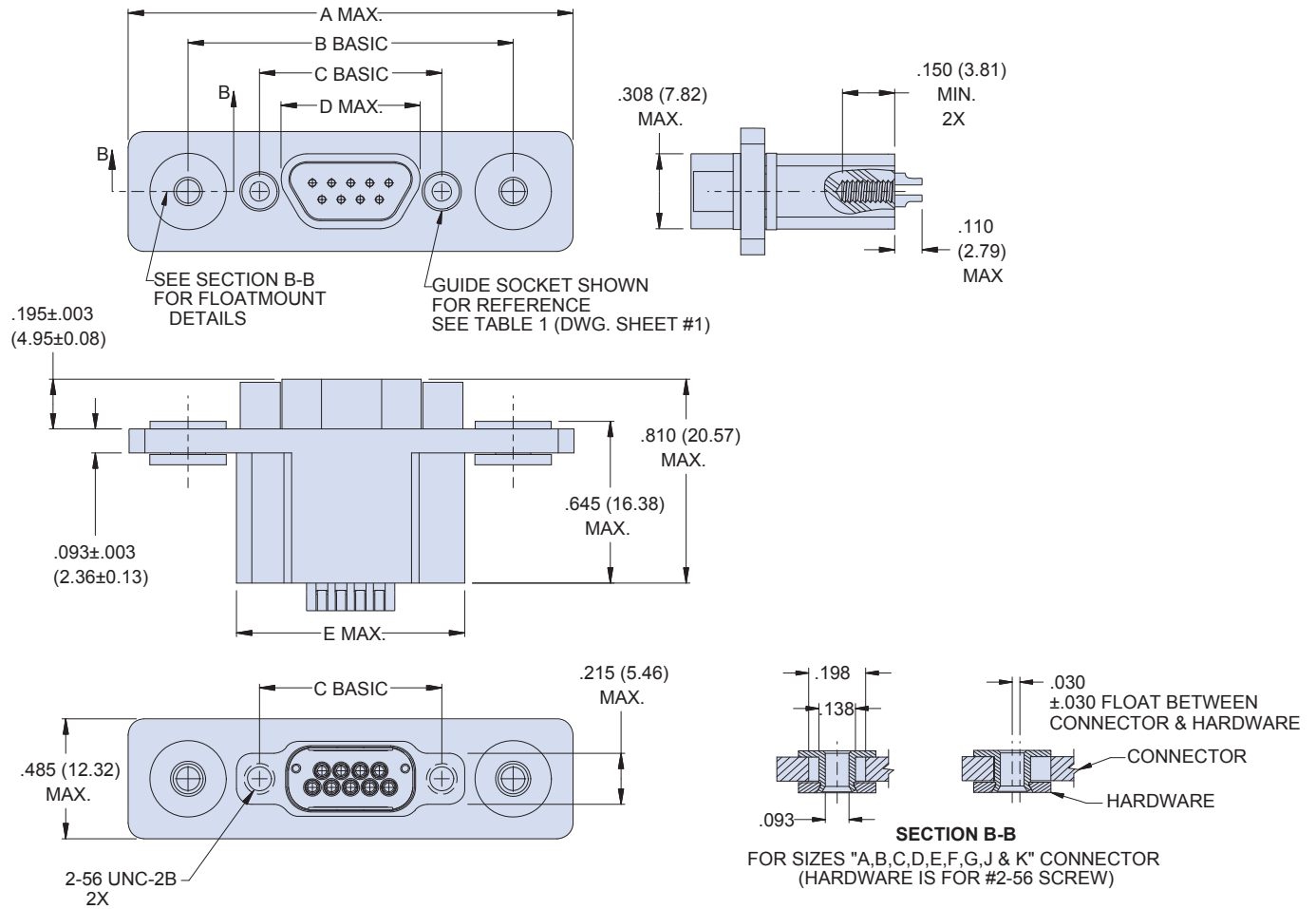


Dimensions in Inches (millimeters) are subject to change without notice.

**790-073P**  
**Crimp Terminated Rear Panel**  
**Float Mount Receptacles, Solder Cup Pin Contacts**  
**Dimensions**



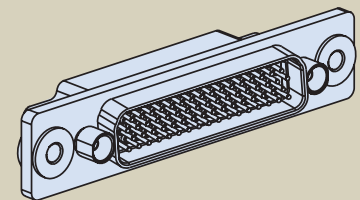
## 790-073P Shell Sizes A, B, C, D, E, F, J and K Dimensions



**790-073P SIZES A, B, C, D, E, F, G, J & K DIMENSIONS**

| Shell Size | A Max. |       | B Basic |       | C Basic |       | D Max. |       | E Max. |       |
|------------|--------|-------|---------|-------|---------|-------|--------|-------|--------|-------|
|            | In.    | mm.   | In.     | mm.   | In.     | mm.   | In.    | mm.   | In.    | mm.   |
| A          | 1.600  | 40.64 | 1.125   | 28.58 | .565    | 14.35 | .401   | 10.19 | .760   | 19.30 |
| B          | 1.700  | 43.18 | 1.275   | 32.38 | .715    | 18.16 | .551   | 14.00 | .910   | 21.11 |
| C          | 1.900  | 48.26 | 1.425   | 36.20 | .865    | 21.97 | .701   | 17.81 | 1.060  | 26.92 |
| D          | 2.000  | 50.80 | 1.525   | 38.74 | .965    | 25.51 | .801   | 20.35 | 1.160  | 29.46 |
| E          | 2.150  | 54.61 | 1.675   | 42.55 | 1.115   | 28.32 | .951   | 24.16 | 1.310  | 33.27 |
| F          | 2.300  | 58.42 | 1.825   | 46.36 | 1.265   | 32.13 | 1.101  | 27.96 | 1.460  | 37.08 |
| J          | 2.650  | 67.31 | 2.175   | 55.25 | 1.615   | 41.02 | 1.456  | 36.98 | 1.810  | 45.97 |
| K          | 3.050  | 77.47 | 2.575   | 65.41 | 2.015   | 51.18 | 1.860  | 47.24 | 2.210  | 56.13 |

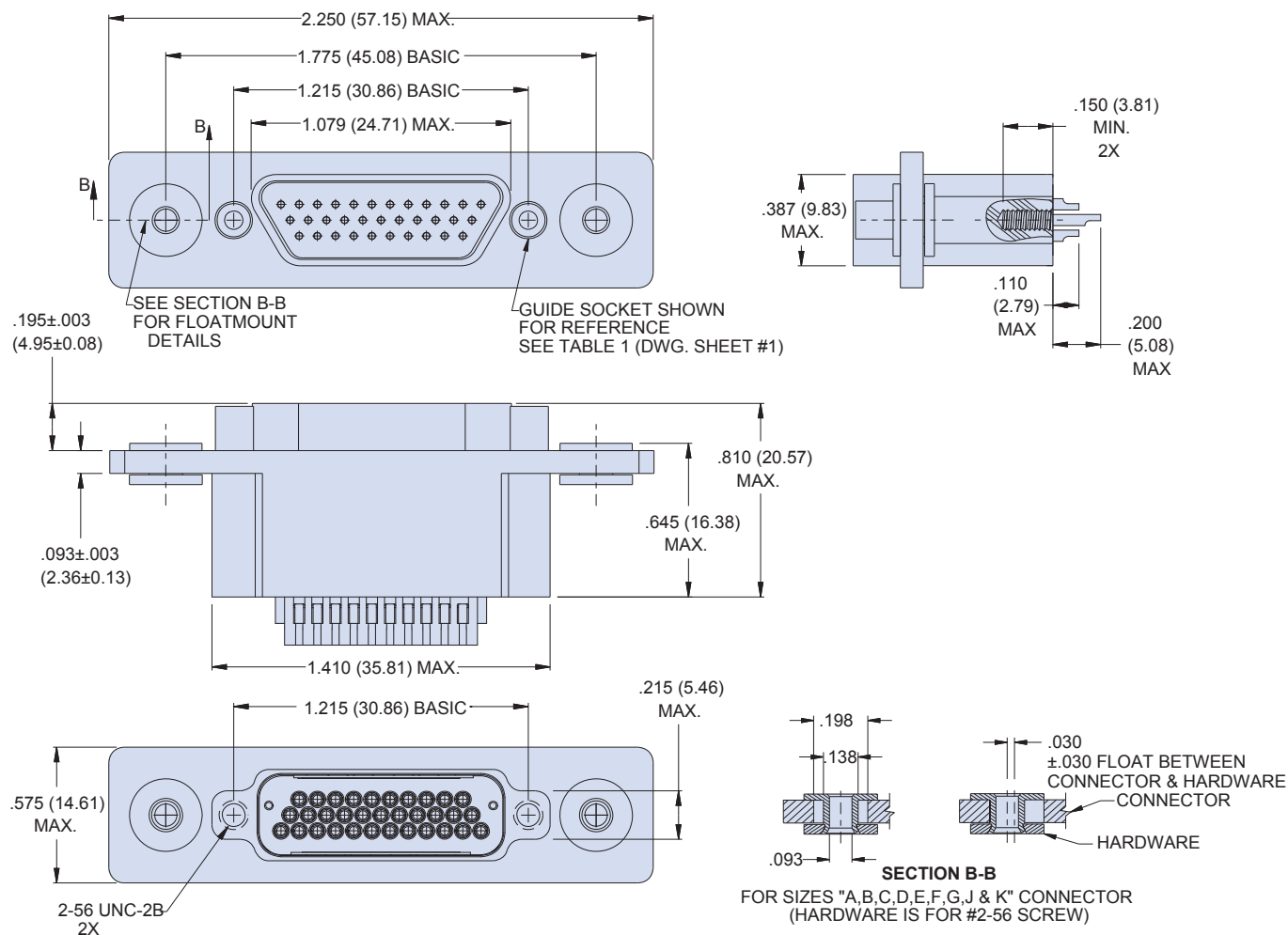
### BLIND MATE



SHELL SIZES A, B, C, D, E, F, G, J, K  
±.030 (0.76) ALLOWABLE  
MISALIGNMENT FROM CENTERLINE

Dimensions in Inches (millimeters) are subject to change without notice.

## 790-073P Shell Size G Dimensions

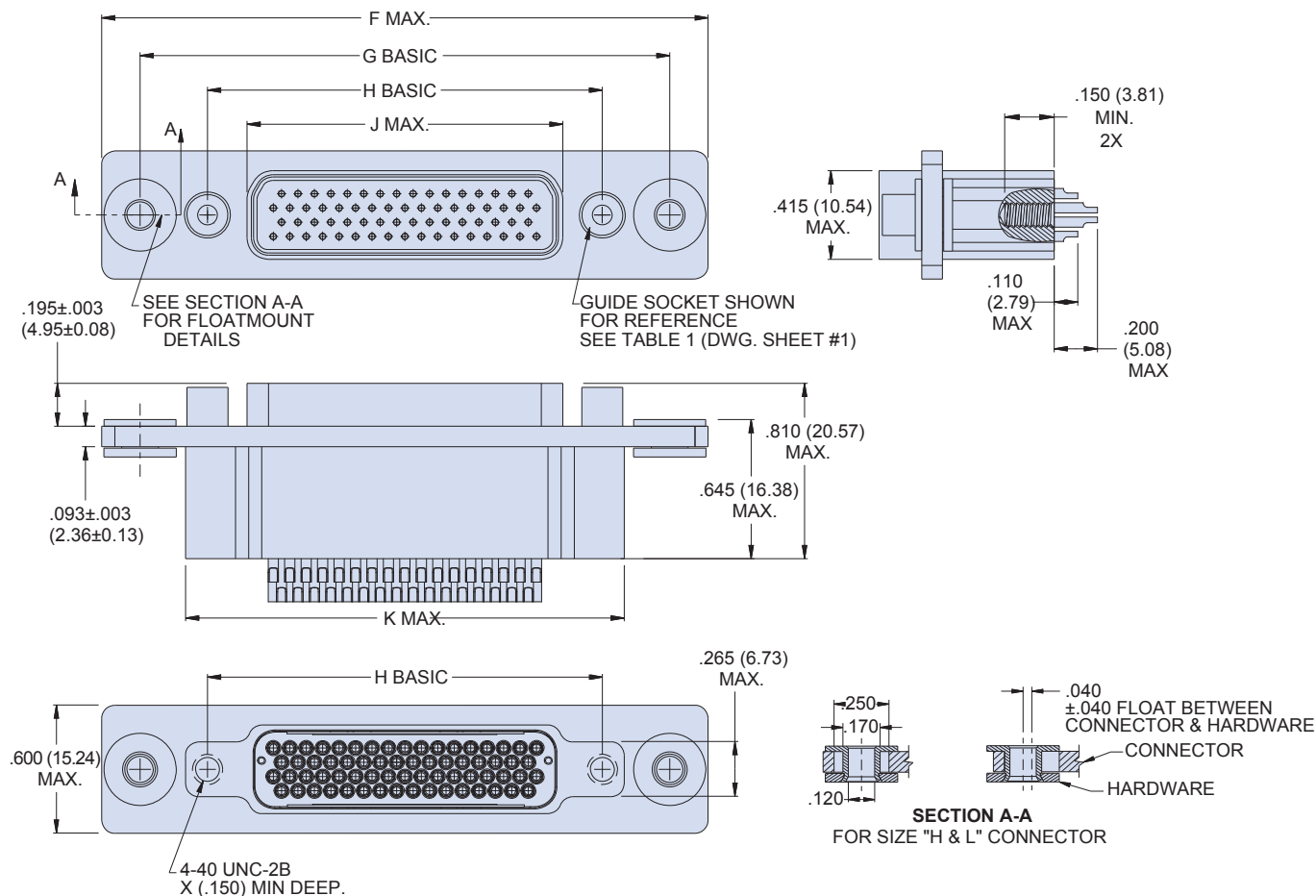


Dimensions in Inches (millimeters) are subject to change without notice.

**790-073P**  
**Crimp Terminated Rear Panel**  
**Float Mount Receptacles, Solder Cup Pin Contacts**  
**Dimensions**



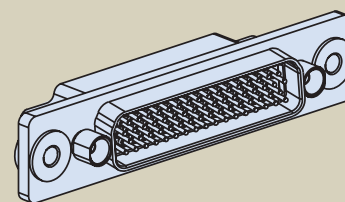
**790-073P Shell Sizes H and L Dimensions**



**790-073P SIZES H & L DIMENSIONS**

| Shell Size | A Max. |       | B Basic |       | C Basic |       | D Max. |       | E Max. |       |
|------------|--------|-------|---------|-------|---------|-------|--------|-------|--------|-------|
|            | In.    | mm.   | In.     | mm.   | In.     | mm.   | In.    | mm.   | In.    | mm.   |
| H          | 2.780  | 70.61 | 2.415   | 61.34 | 1.800   | 45.72 | 1.450  | 36.83 | 2.045  | 51.94 |
| L          | 3.016  | 76.61 | 2.651   | 67.34 | 2.036   | 51.71 | 1.686  | 42.82 | 2.281  | 57.94 |

**BLIND MATE**



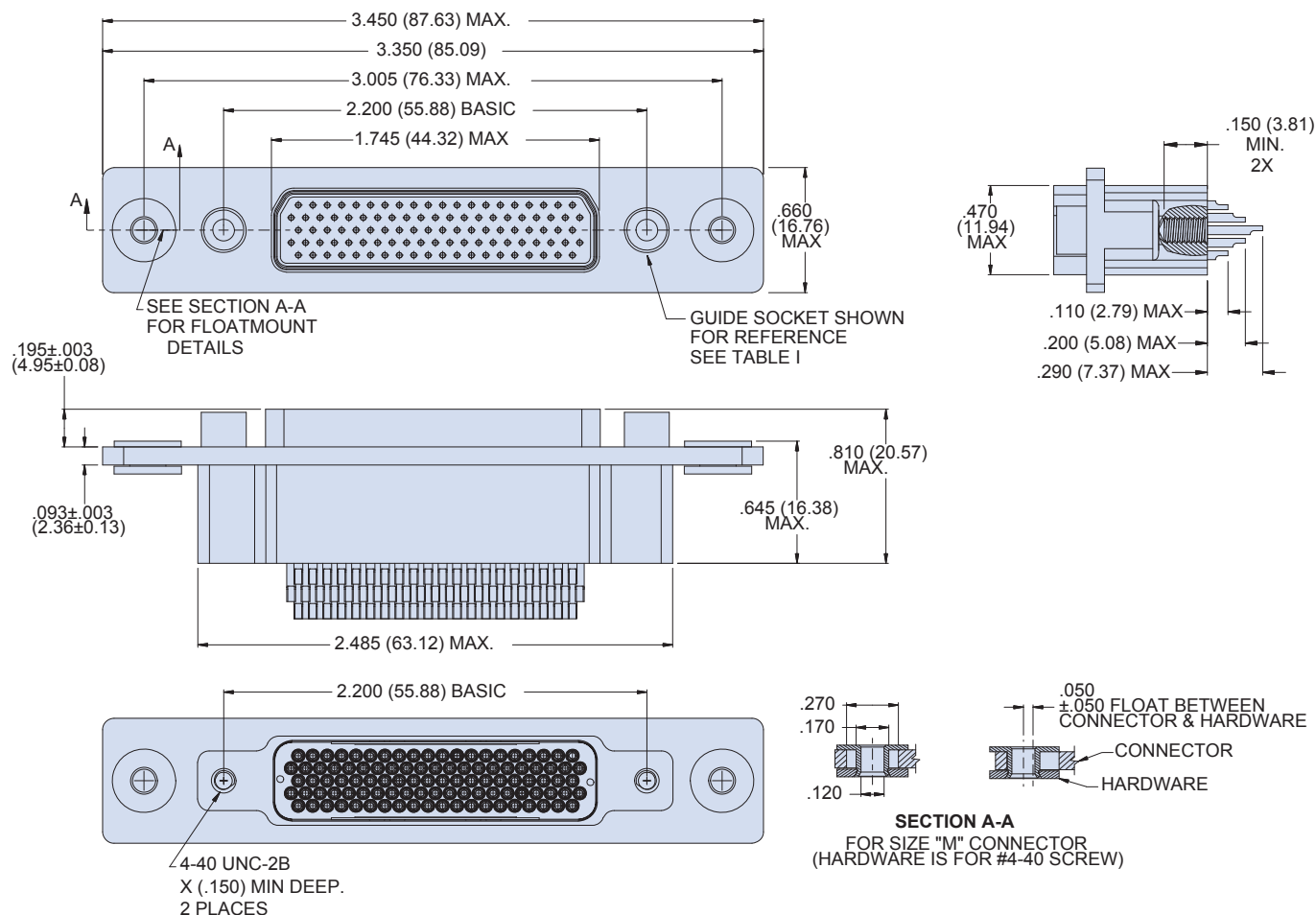
SHELL SIZES H, L  
±.040 (1.02) ALLOWABLE  
MISALIGNMENT FROM CENTERLINE

Dimensions in Inches (millimeters) are subject to change without notice.

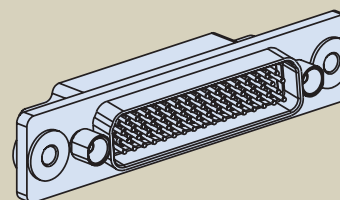


# 790-073P Crimp Terminated Rear Panel Float Mount Receptacles, Solder Cup Pin Contacts Dimensions

## 790-073P Shell Size M Dimensions



### BLIND MATE



**SHELL SIZE M**  
±.050 (1.27) ALLOWABLE  
MISALIGNMENT FROM CENTERLINE

Dimensions in Inches (millimeters) are subject to change without notice.