

# AS85049/91 and AS85049/92 Composite Strain Reliefs Self-Locking



AS85049

## CONNECTOR DESIGNATOR:

**H** MIL-DTL-38999 Series III & IV,  
EN3645

**Basic Part Number**  
M85049/91 = Straight  
M85049/92 = 90°

**M85049/92**

- = Detented  
N = Non-Detented

## Material and Finish Designator

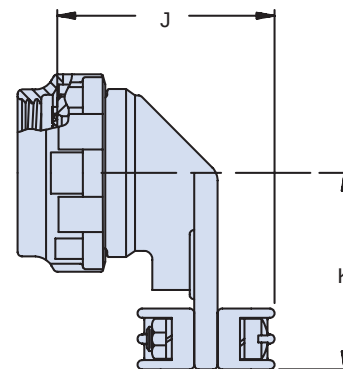
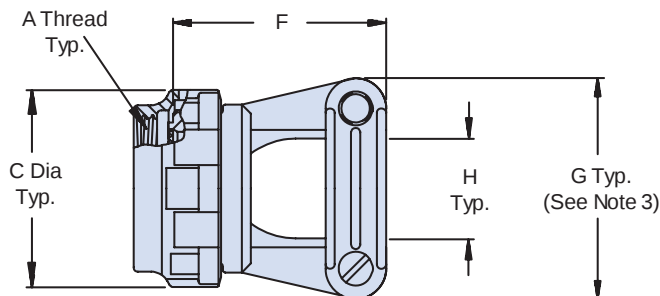
**J** = Composite (Conductive), Cadmium Olive Drab  
over Electroless Nickel  
**M** = Composite (Conductive) Electroless Nickel  
**T** = Composite (Non-Conductive) without Plating  
**XC** = Composite (Conductive) Nickel Fluorocarbon Polymer  
**YC** = Composite (Conductive) Pure Dense Electrodeposited Aluminum  
**ZC** = Composite (Conductive) Zinc-Nickel, Black

**N**

**11**

**T**

**Shell Size**



**TABLE I: Shell Size, Cable Entry and Backshell Dimensions**

| Shell<br>Size | A Thread<br>Class 2B | Ø C<br>Max |        | F<br>Max |        | G<br>Max |        | Ø H<br>+.031 |        | J<br>Max |        | K     |        |
|---------------|----------------------|------------|--------|----------|--------|----------|--------|--------------|--------|----------|--------|-------|--------|
|               |                      |            |        |          |        |          |        |              |        |          |        | ±.062 | (1.6)  |
| <b>09</b>     | M12 X 1 - 6H         | .858       | (21.8) | .840     | (21.3) | .98      | (24.9) | .219         | (5.6)  | 1.06     | (26.9) | .875  | (22.2) |
| <b>11</b>     | M15 X 1 - 6H         | .984       | (25.0) | .960     | (24.4) | 1.05     | (26.7) | .264         | (6.7)  | 1.10     | (27.9) | .937  | (23.8) |
| <b>13</b>     | M18 X 1 - 6H         | 1.157      | (29.4) | 1.100    | (27.9) | 1.20     | (30.5) | .344         | (8.7)  | 1.18     | (30.0) | 1.031 | (26.2) |
| <b>15</b>     | M22 X 1 - 6H         | 1.280      | (32.5) | 1.100    | (27.9) | 1.30     | (33.0) | .460         | (11.7) | 1.30     | (33.0) | 1.125 | (28.6) |
| <b>17</b>     | M25 X 1 - 6H         | 1.406      | (35.7) | 1.230    | (31.2) | 1.42     | (36.1) | .545         | (13.8) | 1.38     | (35.1) | 1.312 | (33.3) |
| <b>19</b>     | M28 X 1 - 6H         | 1.516      | (38.5) | 1.410    | (35.8) | 1.52     | (38.6) | .615         | (15.6) | 1.45     | (36.8) | 1.375 | (34.9) |
| <b>21</b>     | M31 X 1 - 6H         | 1.642      | (41.7) | 1.510    | (38.4) | 1.64     | (41.7) | .698         | (17.7) | 1.54     | (39.1) | 1.500 | (38.1) |
| <b>23</b>     | M34 X 1 - 6H         | 1.768      | (44.9) | 1.660    | (42.2) | 1.77     | (45.0) | .700         | (17.8) | 1.62     | (41.1) | 1.625 | (41.3) |
| <b>25</b>     | M37 X 1 - 6H         | 1.890      | (48.0) | 1.760    | (44.7) | 1.89     | (48.0) | .850         | (21.6) | 1.69     | (42.9) | 1.750 | (44.5) |

## APPLICATION NOTES

1. Assembly to be identified with manufacturer's name and part number, space permitting.
2. Cable Entry is measured with saddle bars closed and bottomed on clamp ears.
3. For complete dimensions, see the applicable Military Specification.
4. Metric dimensions (mm) are in parentheses.

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

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**B**

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