



# AS85049/53, AS85049/54 and AS85049/55

## Straight, 45° and 90° Qwik-Ty Strain Reliefs

### Optional Self-Locking • Optional Ground Lug

#### CONNECTOR DESIGNATOR:

A

AS50151 Series AS34001  
MIL-DTL-26482 Series II  
AS81703 Series III  
MIL-DTL-83723 Series I and III  
40M39569, DEF 5326-3, EN2997  
EN3646, ESC 10, ESC 11, LN 29504  
NFC93422 Series HE302  
PAN 6432-1, PAN 6432-2, PATT 602

#### Configuration

— = Non-Self-Locking  
G = Non-Self-Locking with Ground Lug\*  
S = Detented, Self-Locking\*  
T = Detented, Self-Locking with Ground Lug  
N = Non-Detented, Self-Locking  
H = Non-Detented, Self-Locking with Ground Lug  
\*Configuration Options G and S are available only with AS85049/55

#### Finish

A = Anodize, Black  
N = Electroless Nickel  
W = 1,000 Hour Cadmium Olive Drab over Electroless Nickel  
X = Nickel Fluorocarbon Polymer  
Y = Pure Dense Electrodeposited Aluminum  
Z = Zinc-Nickel, Black

Shell Size

M85049/55

G

22

N

#### OPTIONAL SELF-LOCKING COUPLING

#### Basic Part Number

M85049/53 = Straight  
M85049/54 = 45°  
M85049/55 = 90°

FOR NEW DESIGN APPLICATIONS USE  
M85049/43 (45°), M85049/51 (90°) and M85049/52 (Straight)

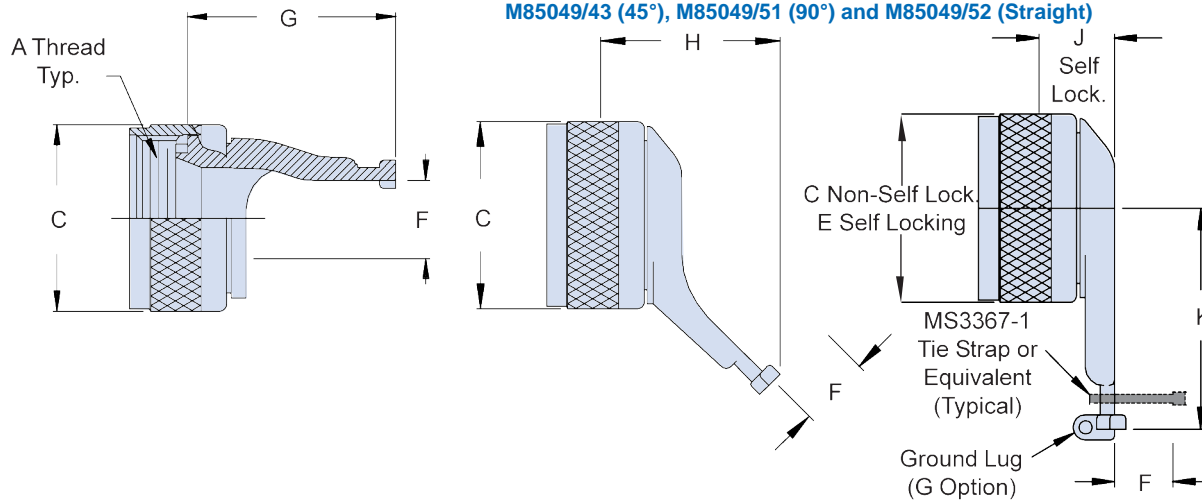


TABLE I: Shell Size, Thread, Cable Entry and Backshell Dimensions

| Shell Size | A Thread Class 2B | C Dia Max    | E Dia Max    | F Cable Entry | G Max        | H Max        | J Max       | K Max        |
|------------|-------------------|--------------|--------------|---------------|--------------|--------------|-------------|--------------|
| 03         | 562 - 24 UNEF     | .780 (19.8)  | 1.010 (25.7) | .260 (6.6)    | .954 (24.0)  | 1.232 (31.3) | .730 (18.5) | 1.290 (32.8) |
| 08         | .500 - 20 UNF     | .660 (16.8)  | .890 (22.6)  | .260 (6.6)    | .954 (24.0)  | 1.232 (31.3) | .730 (18.5) | 1.290 (31.0) |
| 10         | .625 - 24 UNEF    | .780 (19.8)  | 1.010 (25.7) | .365 (9.3)    | .954 (24.0)  | 1.232 (31.3) | .730 (18.5) | 1.290 (32.8) |
| 12         | .750 - 20 UNEF    | .940 (23.9)  | 1.140 (29.0) | .501 (12.7)   | .954 (24.0)  | 1.232 (31.3) | .730 (18.5) | 1.620 (41.1) |
| 14         | .875 - 20 UNEF    | 1.050 (26.7) | 1.260 (32.0) | .575 (14.6)   | 1.204 (30.6) | 1.232 (31.3) | .730 (18.5) | 1.660 (42.2) |
| 16         | 1.000 - 20 UNEF   | 1.240 (31.5) | 1.390 (35.3) | .700 (17.8)   | 1.204 (30.6) | 1.232 (31.3) | .730 (18.5) | 1.720 (43.7) |
| 18         | 1.062 - 18 UNEF   | 1.380 (35.1) | 1.510 (38.4) | .779 (19.8)   | 1.204 (30.6) | 1.232 (31.3) | .730 (18.5) | 1.720 (43.7) |
| 20         | 1.188 - 18 UNEF   | 1.500 (38.1) | 1.640 (41.7) | .904 (23.0)   | 1.310 (33.3) | 1.482 (37.6) | .750 (19.1) | 1.790 (45.5) |
| 22         | 1.313 - 18 UNEF   | 1.630 (41.4) | 1.760 (44.7) | 1.029 (26.1)  | 1.430 (36.3) | 1.482 (37.6) | .750 (19.1) | 1.850 (47.0) |
| 24         | 1.438 - 18 UNEF   | 1.750 (44.5) | 1.890 (48.0) | 1.144 (29.1)  | 1.560 (39.6) | 1.482 (37.6) | .750 (19.1) | 1.910 (48.5) |
| 28         | 1.750 - 18 UNS    | 1.970 (50.0) | 2.140 (54.4) | 1.379 (35.0)  | 1.560 (39.6) | 1.469 (37.3) | .750 (19.1) | 2.060 (52.3) |

#### APPLICATION NOTES

1. Assembly identified with manufacturer's name and part number, space permitting.
2. For complete dimensions, see the applicable Military Specification.
3. Cable entry is defined as the accommodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Metric dimensions (mm) are in parentheses.

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