

# AS85049/78

## 45° EMI/RFI Environmental Backshell

### CONNECTOR DESIGNATOR:

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

### Finish

**N** = Electroless Nickel

**W** = 1,000 Hr. Cadmium Olive Drab  
over Electroless Nickel

**X** = Aluminum, Nickel Fluorocarbon Polymer

**Z** = Aluminum, Zinc-Nickel, Black

**M85049/78**

**- 10**

**W**

**01**

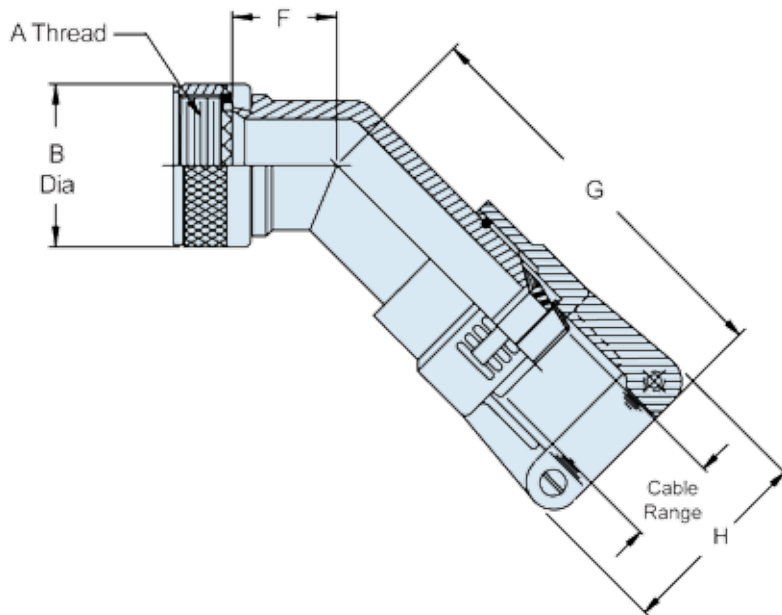
Basic  
Part Number

Shell Size  
(Tables I & II)

Clamp Size  
(Tables II & III)

**TABLE I: Shell Size,  
Thread and Dimensions**

| Shell Size | A Thread<br>Class 2B | B Dia<br>Max |
|------------|----------------------|--------------|
| 09         | M12 X 1 - 6H         | .750 (19.1)  |
| 11         | M15 X 1 - 6H         | .850 (21.6)  |
| 13         | M18 X 1 - 6H         | 1.000 (25.4) |
| 15         | M22 X 1 - 6H         | 1.150 (29.2) |
| 17         | M25 X 1 - 6H         | 1.250 (31.8) |
| 19         | M28 X 1 - 6H         | 1.400 (35.6) |
| 21         | M31 X 1 - 6H         | 1.550 (39.4) |
| 23         | M34 X 1 - 6H         | 1.650 (41.9) |
| 25         | M37 X 1 - 6H         | 1.850 (47.0) |



**TABLE II: Shell Size,  
Clamp Size and Dimensions**

| Shell Size | Clamp Size |     | F<br>±.062 (1.6) | G<br>±.062 (1.6) |
|------------|------------|-----|------------------|------------------|
|            | Min        | Max |                  |                  |
| 09         | 01         | 02  | .398 (10.1)      | 3.088 (78.4)     |
| 11         | 01         | 03  | .458 (11.6)      | 3.148 (80.0)     |
| 13         | 02         | 04  | .518 (13.2)      | 3.208 (81.5)     |
| 15         | 02         | 05  | .588 (14.9)      | 3.298 (83.8)     |
| 17         | 02         | 06  | .678 (17.2)      | 3.408 (86.6)     |
| 19         | 03         | 07  | .868 (22.0)      | 3.598 (91.4)     |
| 21         | 03         | 08  | .868 (22.0)      | 3.598 (91.4)     |
| 23         | 03         | 09  | .958 (24.3)      | 3.748 (95.2)     |
| 25         | 04         | 10  | .958 (24.3)      | 3.748 (95.2)     |

### APPLICATION NOTES

- For complete dimensions see the applicable Military Specification.
- Metric dimensions (mm) are in parentheses.
- Cable Range is defined as the accommodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.

**TABLE III: Clamp Size,  
Cable Range and Dimensions**

| Clamp Size | Cable Range  |              | H<br>Max     |
|------------|--------------|--------------|--------------|
|            | Min          | Max          |              |
| 01         | .062 (1.6)   | .125 (3.2)   | .800 (20.3)  |
| 02         | .125 (3.2)   | .250 (6.4)   | 1.000 (25.4) |
| 03         | .250 (6.4)   | .375 (9.5)   | 1.100 (27.9) |
| 04         | .375 (9.5)   | .500 (12.7)  | 1.200 (30.5) |
| 05         | .500 (12.7)  | .625 (15.9)  | 1.250 (31.8) |
| 06         | .625 (15.9)  | .750 (19.1)  | 1.400 (35.6) |
| 07         | .750 (19.1)  | .875 (22.2)  | 1.500 (38.1) |
| 08         | .875 (22.2)  | 1.000 (25.4) | 1.650 (41.9) |
| 09         | 1.000 (25.4) | 1.125 (28.6) | 1.750 (44.5) |
| 10         | 1.125 (28.6) | 1.250 (31.8) | 1.900 (48.3) |