

# AS85049/9 and MS3188B 90° Environmental Backshell



AS85049

B

### CONNECTOR DESIGNATOR:

- A**
- AS50151 Series AS34001
  - MIL-DTL-26482 Series II
  - AS81703 Series III
  - MIL-DTL-83723 Series I & III
  - 40M39569, DEF 5326-3, EN 2997
  - EN 3646, ESC 10, ESC 11, LN 29504
  - NFC93422 Series HE302
  - PAN 6432-1, PAN 6432-2, PATT 602

Basic Part Number

Dash Number (Table II)

**M85049/9 - 21 N**

Superseded Part Number

**MS3188B 21 N**

Basic Part No.

Dash No.

### Finish (Material is Aluminum Only)

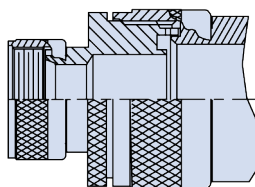
- A = Cadmium Olive Drab over Nickel
- C = Cadmium Olive Drab
- N = Electroless Nickel

### Finish / Material

- B = Black Cadmium / Stainless Steel
- N = Electroless Nickel / Aluminum
- S = Passivated / Stainless Steel
- W = 1,000 Hr. Cadmium Olive Drab over Electroless Nickel / Aluminum
- X = Nickel Fluorocarbon Polymer
- Y = Pure Dense Electrodeposited Aluminum
- Z = Zinc Nickel
- XS = Nickel Fluorocarbon Polymer / Stainless Steel
- YS = Pure Dense Electrodeposited Aluminum / Stainless Steel
- ZS = Zinc Nickel, Black / Stainless Steel

### APPLICATION NOTES

1. For complete dimensions see the applicable Military Specification.
2. Metric dimensions (mm) are in parentheses.
3. When maximum cable entry is exceeded, Style 2 will be supplied.
4. Cable Range is defined as the accommodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
5. Approximate chain lengths: Dash No. 01-12 = 5.0 (127.0); Dash No. 13-29 = 6.0 (152.4).



STYLE 2

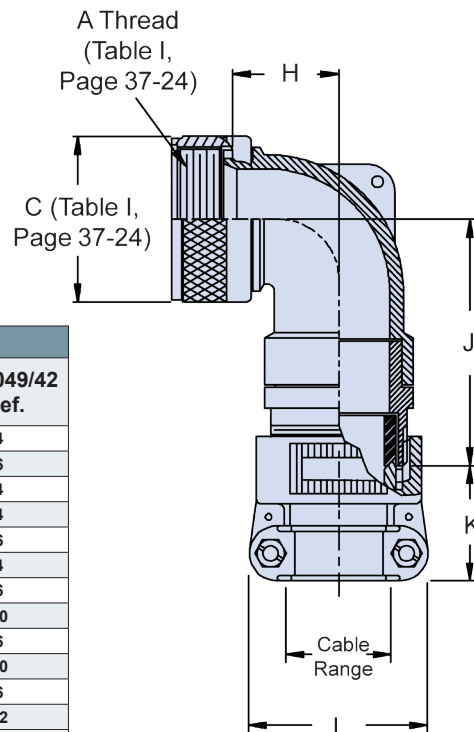


TABLE II: Dash Number and Cable Range (Continued on Page B-26)

| Dash No. | Shell Size | H Max        | J Max        | K Ref.       | L Max        | Cable Range Min | Cable Range Max | M85049/42 Ref. |
|----------|------------|--------------|--------------|--------------|--------------|-----------------|-----------------|----------------|
| 1        | 03         | .761 (19.3)  | 1.862 (47.3) | 1.027 (26.1) | .957 (24.3)  | .125 (3.2)      | .250 (6.4)      | 4              |
| 2        | 03         | 1.511 (38.4) | 1.382 (35.1) | 1.027 (26.1) | 1.145 (29.1) | .250 (6.4)      | .437 (11.1)     | 6              |
| 3        | 08         | .666 (16.9)  | 1.262 (32.1) | 1.027 (26.1) | .957 (24.3)  | .125 (3.2)      | .250 (6.4)      | 4              |
| 4        | 10         | .761 (19.3)  | 1.982 (50.3) | 1.027 (26.1) | .957 (24.3)  | .125 (3.2)      | .312 (7.9)      | 4              |
| 5        | 10         | .761 (19.3)  | 1.382 (35.1) | 1.027 (26.1) | 1.145 (29.1) | .250 (6.4)      | .375 (9.5)      | 6              |
| 6        | 12         | .766 (19.5)  | 2.002 (50.9) | 1.027 (26.1) | .957 (24.3)  | .125 (3.2)      | .312 (7.9)      | 4              |
| 7        | 12         | .766 (19.5)  | 2.002 (50.9) | 1.027 (26.1) | 1.145 (29.1) | .250 (6.4)      | .437 (11.1)     | 6              |
| 8        | 12         | .766 (19.5)  | 1.397 (35.5) | 1.027 (26.1) | 1.332 (33.8) | .350 (8.9)      | .500 (12.7)     | 10             |
| 9        | 14         | .866 (22.0)  | 2.072 (52.6) | 1.027 (26.1) | 1.145 (29.1) | .250 (6.4)      | .437 (11.1)     | 6              |
| 10       | 14         | .866 (22.0)  | 1.717 (43.6) | 1.027 (26.1) | 1.332 (33.8) | .350 (8.9)      | .575 (14.6)     | 10             |
| 11       | 16         | 1.051 (26.7) | 2.162 (54.9) | 1.027 (26.1) | 1.145 (29.1) | .250 (6.4)      | .437 (11.1)     | 6              |
| 12       | 16         | 1.051 (26.7) | 1.807 (45.9) | 1.059 (26.9) | 1.551 (39.4) | .500 (12.7)     | .700 (17.8)     | 12             |
| 13       | 18         | 1.141 (29.0) | 2.332 (59.2) | 1.027 (26.1) | 1.332 (33.8) | .350 (8.9)      | .625 (15.9)     | 10             |
| 14       | 18         | 1.141 (29.0) | 1.982 (50.3) | 1.156 (29.4) | 1.770 (45.0) | .625 (15.9)     | .779 (19.8)     | 16             |
| 15       | 20         | 1.141 (29.0) | 2.332 (59.2) | 1.027 (26.1) | 1.332 (33.8) | .350 (8.9)      | .625 (15.9)     | 10             |
| 16       | 20         | 1.141 (29.0) | 1.982 (50.3) | 1.156 (29.4) | 1.770 (45.0) | .625 (15.9)     | .904 (23.0)     | 16             |
| 17       | 22         | 1.291 (32.8) | 2.442 (62.0) | 1.059 (26.9) | 1.551 (39.4) | .500 (12.7)     | .750 (19.1)     | 12             |
| 18       | 22         | 1.291 (32.8) | 2.087 (53.0) | 1.375 (34.9) | 2.113 (53.7) | .875 (22.2)     | 1.029 (26.1)    | 20             |
| 19       | 24         | 1.291 (32.8) | 2.442 (62.0) | 1.059 (26.9) | 1.551 (39.4) | .500 (12.7)     | .750 (19.1)     | 12             |
| 20       | 24         | 1.291 (32.8) | 2.087 (53.0) | 1.375 (34.9) | 2.113 (53.7) | .875 (22.2)     | 1.144 (29.1)    | 20             |
| 21       | 28         | 1.391 (35.3) | 2.612 (66.3) | 1.156 (33.7) | 1.770 (45.0) | .625 (15.9)     | .937 (23.8)     | 16             |

Table Continued on Page B-26

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

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Mil-Spec Backshells

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## AS85049/9 and MS3188B 90° Environmental Backshell

**TABLE II: Dash Number and Cable Range (Continued From Page B-25)**

| Dash No. | Shell Size | H            |  | J            |  | K            |  | L            |  | Cable Range  |              | M85049/42 Ref. |
|----------|------------|--------------|--|--------------|--|--------------|--|--------------|--|--------------|--------------|----------------|
|          |            | Max          |  | Max          |  | Ref.         |  | Max          |  | Min          | Max          |                |
| 22       | 28         | 1.391 (35.3) |  | 2.257 (57.3) |  | 1.500 (38.1) |  | 2.363 (60.0) |  | 1.000 (25.4) | 1.375 (34.9) | 24             |
| 23       | 32         | 1.741 (44.2) |  | 2.862 (72.7) |  | 1.156 (29.4) |  | 1.770 (45.0) |  | .625 (15.9)  | .937 (23.8)  | 16             |
| 24       | 32         | 1.741 (44.2) |  | 2.862 (72.7) |  | 1.375 (34.9) |  | 2.113 (53.7) |  | .875 (22.2)  | 1.250 (31.8) | 20             |
| 25       | 32         | 1.741 (44.2) |  | 2.507 (63.7) |  | 1.781 (45.2) |  | 2.770 (70.4) |  | 1.250 (31.8) | 1.625 (41.3) | 28             |
| 26       | 36         | 1.941 (49.3) |  | 2.832 (71.9) |  | 1.156 (29.4) |  | 1.770 (45.0) |  | .625 (15.9)  | .937 (23.8)  | 16             |
| 27       | 36         | 1.941 (49.3) |  | 2.832 (71.9) |  | 1.500 (38.1) |  | 2.363 (60.0) |  | 1.000 (25.4) | 1.375 (34.9) | 24             |
| 28       | 36         | 1.941 (49.3) |  | 2.477 (62.9) |  | 1.830 (46.5) |  | 3.020 (76.7) |  | 1.437 (36.5) | 1.840 (46.7) | 32             |
| 29       | 40         | 2.691 (68.4) |  | 2.832 (71.9) |  | 1.156 (29.4) |  | 1.770 (45.0) |  | .625 (15.9)  | .937 (23.8)  | 16             |
| 30       | 40         | 2.691 (68.4) |  | 2.832 (71.9) |  | 1.500 (38.1) |  | 2.363 (60.0) |  | 1.000 (25.4) | 1.375 (34.9) | 24             |
| 31       | 40         | 2.691 (68.4) |  | 2.477 (62.9) |  | 1.830 (46.5) |  | 3.020 (76.7) |  | 1.437 (36.5) | 1.875 (47.6) | 32             |
| 32       | 44         | 2.691 (68.4) |  | 2.832 (71.9) |  | 1.156 (29.4) |  | 1.770 (45.0) |  | .625 (15.9)  | .937 (23.8)  | 16             |
| 33       | 44         | 2.691 (68.4) |  | 2.832 (71.9) |  | 1.500 (38.1) |  | 2.363 (60.0) |  | 1.000 (25.4) | 1.375 (34.9) | 24             |
| 34       | 44         | 2.691 (68.4) |  | 2.477 (62.9) |  | 1.830 (46.5) |  | 3.020 (76.7) |  | 1.437 (36.5) | 1.875 (47.6) | 32             |
| 35       | 48         | 2.691 (68.4) |  | 2.832 (71.9) |  | 1.156 (29.4) |  | 1.770 (45.0) |  | .625 (15.9)  | .937 (23.8)  | 16             |
| 36       | 48         | 2.691 (68.4) |  | 2.832 (71.9) |  | 1.500 (38.1) |  | 2.363 (60.0) |  | 1.000 (25.4) | 1.375 (34.9) | 24             |
| 37       | 48         | 2.691 (68.4) |  | 2.477 (62.9) |  | 1.830 (46.5) |  | 3.020 (76.7) |  | 1.437 (36.5) | 1.875 (47.6) | 32             |
| 38       | 61         | 1.291 (32.8) |  | 2.442 (62.0) |  | 1.059 (26.9) |  | 1.551 (39.4) |  | .500 (12.7)  | .750 (19.1)  | 12             |
| 39       | 61         | 1.291 (32.8) |  | 2.087 (53.0) |  | 1.375 (34.9) |  | 2.113 (53.7) |  | .875 (22.2)  | 1.184 (30.1) | 20             |
| 40       | 16         | 1.051 (26.7) |  | 2.162 (54.9) |  | 1.027 (26.1) |  | 1.332 (33.8) |  | .350 (8.9)   | .625 (15.9)  | 10             |
| 41       | 18         | 1.141 (29.0) |  | 2.332 (59.2) |  | 1.027 (26.1) |  | .957 (24.3)  |  | .125 (3.2)   | .312 (7.9)   | 4              |
| 42       | 18         | 1.141 (29.0) |  | 2.332 (59.2) |  | 1.027 (26.1) |  | 1.145 (29.1) |  | .250 (6.4)   | .437 (11.1)  | 6              |
| 43       | 20         | 1.141 (29.0) |  | 2.332 (59.2) |  | 1.027 (26.1) |  | 1.145 (29.1) |  | .250 (6.4)   | .437 (11.1)  | 6              |
| 44       | 22         | 1.291 (32.8) |  | 2.442 (62.0) |  | 1.027 (26.1) |  | .957 (24.3)  |  | .125 (3.2)   | .312 (7.9)   | 4              |
| 45       | 22         | 1.291 (32.8) |  | 2.442 (62.0) |  | 1.027 (26.1) |  | 1.145 (29.1) |  | .250 (6.4)   | .437 (11.1)  | 6              |
| 46       | 24         | 1.291 (32.8) |  | 2.442 (62.0) |  | 1.027 (26.1) |  | 1.332 (33.8) |  | .350 (8.9)   | .625 (15.9)  | 10             |
| 47       | 36         | 1.941 (49.3) |  | 2.832 (71.9) |  | 1.059 (26.9) |  | 1.551 (39.4) |  | .500 (12.7)  | .750 (19.1)  | 12             |
| 48       | 40         | 1.941 (49.3) |  | 2.832 (71.9) |  | 1.059 (26.9) |  | 1.551 (39.4) |  | .500 (12.7)  | .750 (19.1)  | 12             |
| 49*      | 10         | 1.516 (38.5) |  | 2.002 (50.9) |  | 1.027 (26.1) |  | 1.145 (29.1) |  | .250 (6.4)   | .437 (11.1)  | 6              |
| 50*      | 14         | 1.891 (48.0) |  | 2.332 (59.2) |  | 1.059 (26.9) |  | 1.551 (39.4) |  | .500 (12.7)  | .750 (19.1)  | 12             |
| 51*      | 16         | 2.041 (51.8) |  | 2.442 (62.0) |  | 1.156 (29.4) |  | 1.770 (45.0) |  | .625 (15.9)  | .937 (23.8)  | 16             |
| 52       | 18         | 1.141 (29.0) |  | 2.332 (59.2) |  | 1.059 (26.9) |  | 1.551 (39.4) |  | .500 (12.7)  | .750 (19.1)  | 12             |
| 53       | 61         | 1.291 (32.8) |  | 2.087 (53.0) |  | 1.156 (29.4) |  | 1.770 (45.0) |  | .625 (15.9)  | .937 (23.8)  | 16             |
| 54       | 20         | 1.141 (29.0) |  | 2.332 (59.2) |  | 1.059 (26.9) |  | 1.551 (39.4) |  | .500 (12.7)  | .750 (19.1)  | 12             |
| 55*      | 20         | 2.141 (54.4) |  | 2.612 (66.3) |  | 1.375 (34.9) |  | 2.113 (53.7) |  | .875 (22.2)  | 1.250 (31.8) | 20             |
| 56       | 22         | 1.291 (32.8) |  | 2.442 (62.0) |  | 1.027 (26.1) |  | 1.332 (33.8) |  | .350 (8.9)   | .625 (15.9)  | 10             |
| 57       | 22         | 1.291 (32.8) |  | 2.442 (62.0) |  | 1.156 (29.4) |  | 1.770 (45.0) |  | .625 (15.9)  | .937 (23.8)  | 16             |
| 58*      | 22         | 2.141 (54.4) |  | 2.612 (66.3) |  | 1.375 (34.9) |  | 2.113 (53.7) |  | .875 (22.2)  | 1.250 (31.8) | 20             |
| 59       | 24         | 1.291 (32.8) |  | 2.442 (62.0) |  | 1.156 (29.4) |  | 1.770 (45.0) |  | .625 (15.9)  | .937 (23.8)  | 16             |
| 60       | 28         | 1.391 (35.3) |  | 2.612 (66.3) |  | 1.059 (26.9) |  | 1.551 (39.4) |  | .500 (12.7)  | .750 (19.1)  | 12             |
| 61       | 28         | 1.391 (35.3) |  | 2.612 (66.3) |  | 1.375 (34.9) |  | 2.113 (53.7) |  | .875 (22.2)  | 1.250 (31.8) | 20             |
| 62       | 32         | 1.741 (44.2) |  | 2.862 (72.7) |  | 1.500 (38.1) |  | 2.363 (60.0) |  | 1.000 (25.4) | 1.375 (34.9) | 24             |
| 63       | 36         | 1.941 (49.3) |  | 2.832 (71.9) |  | 1.375 (34.9) |  | 2.113 (53.7) |  | .875 (22.2)  | 1.250 (31.8) | 20             |
| 64       | 36         | 1.941 (49.3) |  | 2.832 (71.9) |  | 1.781 (45.2) |  | 2.770 (70.4) |  | 1.250 (31.8) | 1.625 (41.3) | 28             |
| 65       | 40         | 2.691 (68.4) |  | 2.832 (71.9) |  | 1.375 (34.9) |  | 2.113 (53.7) |  | .875 (22.2)  | 1.250 (31.8) | 20             |
| 66       | 40         | 2.691 (68.4) |  | 2.832 (71.9) |  | 1.781 (45.2) |  | 2.770 (70.4) |  | 1.250 (31.8) | 1.625 (41.3) | 28             |
| 67       | 44         | 2.691 (68.4) |  | 2.832 (71.9) |  | 1.375 (34.9) |  | 2.113 (53.7) |  | .875 (22.2)  | 1.250 (31.8) | 20             |
| 68       | 44         | 2.691 (68.4) |  | 2.832 (71.9) |  | 1.781 (45.2) |  | 2.770 (70.4) |  | 1.250 (31.8) | 1.625 (41.3) | 28             |
| 69       | 48         | 2.691 (68.4) |  | 2.832 (71.9) |  | 1.375 (34.9) |  | 2.113 (53.7) |  | .875 (22.2)  | 1.250 (31.8) | 20             |
| 70       | 48         | 2.691 (68.4) |  | 2.832 (71.9) |  | 1.781 (45.2) |  | 2.770 (70.4) |  | 1.250 (31.8) | 1.625 (41.3) | 28             |
| 71*      | 12         | 1.811 (46.0) |  | 2.162 (54.9) |  | 1.027 (26.1) |  | 1.332 (33.8) |  | .350 (8.9)   | .625 (15.9)  | 10             |
| 72*      | 18         | 2.051 (52.1) |  | 2.442 (62.0) |  | 1.156 (29.4) |  | 1.770 (45.0) |  | .625 (15.9)  | .937 (23.8)  | 16             |
| 73*      | 24         | 2.151 (54.6) |  | 2.612 (66.3) |  | 1.375 (34.9) |  | 2.116 (53.7) |  | .875 (22.2)  | 1.250 (31.8) | 20             |
| 74       | 14         | .866 (22.0)  |  | 2.072 (52.6) |  | 1.027 (26.1) |  | .957 (24.3)  |  | .125 (3.2)   | .312 (7.9)   | 4              |
| 75       | 16         | 1.051 (26.7) |  | 2.162 (54.9) |  | 1.027 (26.1) |  | .957 (24.3)  |  | .125 (3.2)   | .312 (7.9)   | 4              |

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