

# AS85049/6 and MS3189A 45° EMI/RFI Environmental Backshell



AS85049

B

| CONNECTOR DESIGNATOR: |   |
|-----------------------|---|
| <b>A</b>              | AS50151 Series 34001                                      |
|                       | 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<br>PAN 6432-1, PAN 6432-2, PATT 602 |



**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** = Aluminum, Nickel Fluorocarbon Polymer  
**Z** = Aluminum, Zinc-Nickel, Black  
**XS** = Stainless Steel, Nickel Fluorocarbon Polymer  
**ZS** = Stainless Steel, Zinc-Nickel, Black



| TABLE I: Dash Number, Cable Range and Dimensions |            |              |              |              |              |             |              |                |  |
|--|------------|--------------|--------------|--------------|--------------|-------------|--------------|----------------|--|
| Dash No.   | Shell Size | F Max        | G Max        | K Ref.       | L Max        | Cable Range |              | M85049/42 Ref. |  |
|  |            |              |              |              |              | Min         | Max          |                |  |
| 1  | 3          | .686 (17.4)  | 2.034 (51.7) | 1.544 (39.2) | .957 (24.3)  | .125 (3.2)  | .250 (6.4)   | 4              |  |
| 2  | 3          | 1.500 (38.1) | 1.306 (33.2) | 1.544 (39.2) | 1.145 (29.1) | .250 (6.4)  | .437 (11.1)  | 6              |  |
| 3  | 8          | .625 (15.9)  | 1.974 (50.1) | 1.544 (39.2) | .957 (24.3)  | .125 (3.2)  | .250 (6.4)   | 4              |  |
| 4  | 10         | .686 (17.4)  | 1.369 (34.8) | 1.544 (39.2) | .957 (24.3)  | .125 (3.2)  | .312 (7.9)   | 4              |  |
| 5  | 10         | .686 (17.4)  | 2.034 (51.7) | 1.544 (39.2) | 1.145 (29.1) | .250 (6.4)  | .375 (9.5)   | 6              |  |
| 6  | 12         | .750 (19.1)  | 2.034 (51.7) | 1.544 (39.2) | .957 (24.3)  | .125 (3.2)  | .312 (7.9)   | 4              |  |
| 7  | 12         | .750 (19.1)  | 2.034 (51.7) | 1.544 (39.2) | 1.145 (29.1) | .250 (6.4)  | .437 (11.1)  | 6              |  |
| 8  | 12         | .750 (19.1)  | 2.124 (53.9) | 1.844 (46.8) | 1.332 (33.8) | .350 (8.9)  | .500 (12.7)  | 10             |  |
| 9  | 14         | .813 (20.7)  | 1.779 (45.2) | 1.544 (39.2) | 1.145 (29.1) | .250 (6.4)  | .437 (11.1)  | 6              |  |
| 10   | 14         | .813 (20.7)  | 2.234 (56.7) | 1.844 (46.8) | 1.332 (33.8) | .350 (8.9)  | .575 (14.6)  | 10             |  |
| 11   | 16         | .906 (23.0)  | 1.874 (47.6) | 1.544 (39.2) | 1.145 (29.1) | .250 (6.4)  | .437 (11.1)  | 6              |  |
| 12   | 16         | .906 (23.0)  | 2.424 (61.6) | 1.916 (48.7) | 1.551 (39.4) | .500 (12.7) | .700 (17.8)  | 12             |  |
| 13   | 18         | 1.093 (27.8) | 2.062 (52.4) | 1.844 (46.8) | 1.332 (33.8) | .350 (8.9)  | .625 (15.9)  | 10             |  |
| 14   | 18         | 1.093 (27.8) | 2.424 (61.6) | 2.000 (50.8) | 1.770 (45.0) | .625 (15.9) | .779 (19.8)  | 16             |  |
| 15   | 20         | 1.093 (27.8) | 2.062 (52.4) | 1.844 (46.8) | 1.332 (33.8) | .350 (8.9)  | .625 (15.9)  | 10             |  |
| 16   | 20         | 1.093 (27.8) | 2.574 (65.4) | 2.000 (50.8) | 1.770 (45.0) | .625 (15.9) | .904 (23.0)  | 16             |  |
| 17   | 22         | 1.188 (30.2) | 2.217 (56.3) | 1.916 (48.7) | 1.551 (39.4) | .500 (12.7) | .750 (19.1)  | 12             |  |
| 18   | 22         | 1.188 (30.2) | 2.574 (65.4) | 2.230 (56.6) | 2.113 (53.7) | .875 (22.2) | 1.029 (26.1) | 20             |  |
| 19   | 24         | 1.188 (30.2) | 2.217 (56.3) | 1.916 (48.7) | 1.551 (39.4) | .500 (12.7) | .750 (19.1)  | 12             |  |
| 20   | 24         | 1.188 (30.2) | 2.624 (66.6) | 2.230 (56.6) | 2.113 (53.7) | .875 (22.2) | 1.144 (29.1) | 20             |  |
| 21   | 28         | 1.313 (33.4) | 2.562 (65.1) | 2.000 (50.8) | 1.770 (45.0) | .625 (15.9) | .937 (23.8)  | 16             |  |

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- APPLICATION NOTES

  1. For complete dimensions see the applicable Military Specification.
  2. When maximum cable entry is exceeded, Style 2 will be supplied.
  3. Metric dimensions (mm) are in parentheses.
  4. Cable Range is defined as the accommodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.

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

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# AS85049/6 and MS3189A 45° EMI/RFI Environmental Backshell

B

TABLE I: Continued from Page B-19

| Dash No. | Shell Size | F Max        | G Max        | K Ref.       | L Max        | Cable Range  |              | M85049/42 Ref. |
|----------|------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|
|          |            |              |              |              |              | Min          | Max          |                |
| 22       | 28         | 1.312 (33.3) | 2.280 (57.9) | 2.024 (51.4) | 2.363 (60.0) | 1.000 (25.4) | 1.375 (34.9) | 24             |
| 23       | 32         | 1.375 (34.9) | 2.724 (69.2) | 2.000 (50.8) | 1.770 (45.0) | .625 (15.9)  | .937 (23.8)  | 16             |
| 24       | 32         | 1.375 (34.9) | 2.724 (69.2) | 2.230 (56.6) | 2.113 (53.7) | .875 (22.2)  | 1.250 (31.8) | 20             |
| 25       | 32         | 1.375 (34.9) | 2.374 (60.3) | 2.550 (64.8) | 2.770 (70.4) | 1.250 (31.8) | 1.625 (41.3) | 28             |
| 26       | 36         | 1.406 (35.7) | 2.814 (71.5) | 2.000 (50.8) | 1.770 (45.0) | .625 (15.9)  | .937 (23.8)  | 16             |
| 27       | 36         | 1.406 (35.7) | 2.814 (71.5) | 2.024 (51.4) | 2.363 (60.0) | 1.000 (25.4) | 1.375 (34.9) | 24             |
| 28       | 36         | 1.406 (35.7) | 2.468 (62.7) | 2.600 (66.0) | 3.020 (76.7) | 1.437 (36.5) | 1.840 (46.7) | 32             |
| 29       | 40         | 2.156 (54.8) | 2.634 (66.9) | 2.000 (50.8) | 1.770 (45.0) | .625 (15.9)  | .937 (23.8)  | 16             |
| 30       | 40         | 2.156 (54.8) | 2.634 (66.9) | 2.024 (51.4) | 2.363 (60.0) | 1.000 (25.4) | 1.375 (34.9) | 24             |
| 31       | 40         | 2.156 (54.8) | 2.468 (62.7) | 2.600 (66.0) | 3.020 (76.7) | 1.437 (36.5) | 1.875 (47.6) | 32             |
| 32       | 44         | 2.156 (54.8) | 2.814 (71.5) | 2.000 (50.8) | 1.770 (45.0) | .625 (15.9)  | .937 (23.8)  | 16             |
| 33       | 44         | 2.156 (54.8) | 2.468 (62.7) | 2.024 (51.4) | 2.363 (60.0) | 1.000 (25.4) | 1.375 (34.9) | 24             |
| 34       | 44         | 2.156 (54.8) | 2.468 (62.7) | 2.600 (66.0) | 3.020 (76.7) | 1.437 (36.5) | 1.875 (47.6) | 32             |
| 35       | 48         | 2.156 (54.8) | 2.814 (71.5) | 2.000 (50.8) | 1.770 (45.0) | .625 (15.9)  | .937 (23.8)  | 16             |
| 36       | 48         | 2.156 (54.8) | 2.814 (71.5) | 2.024 (51.4) | 2.363 (60.0) | 1.000 (25.4) | 1.375 (34.9) | 24             |
| 37       | 48         | 2.156 (54.8) | 2.468 (62.7) | 2.600 (66.0) | 3.020 (76.7) | 1.437 (36.5) | 1.875 (47.6) | 32             |
| 38       | 61         | 1.188 (30.2) | 2.574 (65.4) | 1.916 (48.7) | 1.551 (39.4) | .500 (12.7)  | .750 (19.1)  | 12             |
| 39       | 61         | 1.188 (30.2) | 2.217 (56.3) | 2.230 (56.6) | 2.113 (53.7) | .875 (22.2)  | 1.184 (30.1) | 20             |
| 40       | 16         | .906 (23.0)  | 2.234 (56.7) | 1.844 (46.8) | 1.332 (33.8) | .350 (8.9)   | .625 (15.9)  | 10             |
| 41       | 18         | 1.093 (27.8) | 2.424 (61.6) | 1.544 (39.2) | .957 (24.3)  | .125 (3.2)   | .312 (7.9)   | 4              |
| 42       | 18         | 1.093 (27.8) | 2.424 (61.6) | 1.544 (39.2) | 1.145 (29.1) | .250 (6.4)   | .437 (11.1)  | 6              |
| 43       | 20         | 1.093 (27.8) | 2.424 (61.6) | 1.544 (39.2) | 1.145 (29.1) | .250 (6.4)   | .437 (11.1)  | 6              |
| 44       | 22         | 1.188 (30.2) | 2.574 (65.4) | 1.544 (39.2) | .957 (24.3)  | .125 (3.2)   | .312 (7.9)   | 4              |
| 45       | 22         | 1.188 (30.2) | 2.574 (65.4) | 1.544 (39.2) | 1.145 (29.1) | .250 (6.4)   | .437 (11.1)  | 6              |
| 46       | 24         | 1.188 (30.2) | 2.574 (65.4) | 1.844 (46.8) | 1.332 (33.8) | .350 (8.9)   | .625 (15.9)  | 10             |
| 47       | 36         | 1.406 (35.7) | 2.814 (71.5) | 1.916 (48.7) | 1.551 (39.4) | .500 (12.7)  | .750 (19.1)  | 12             |
| 48       | 40         | 2.156 (54.8) | 2.814 (71.5) | 1.916 (48.7) | 1.551 (39.4) | .500 (12.7)  | .750 (19.1)  | 12             |
| 49*      | 10         | 1.500 (38.1) | 2.034 (51.7) | 1.544 (39.2) | 1.145 (29.1) | .250 (6.4)   | .437 (11.1)  | 6              |
| 50*      | 14         | 1.842 (46.8) | 2.424 (61.6) | 1.916 (48.7) | 1.551 (39.4) | .500 (12.7)  | .750 (19.1)  | 12             |
| 51*      | 16         | 1.937 (49.2) | 2.574 (65.4) | 2.000 (50.8) | 1.770 (45.0) | .625 (15.9)  | .937 (23.8)  | 16             |
| 52       | 18         | 1.093 (27.8) | 2.424 (61.6) | 1.916 (48.7) | 1.551 (39.4) | .500 (12.7)  | .750 (19.1)  | 12             |
| 53       | 61         | 1.188 (30.2) | 2.574 (65.4) | 2.000 (50.8) | 1.770 (45.0) | .625 (15.9)  | .937 (23.8)  | 16             |
| 54       | 20         | 1.093 (27.8) | 2.424 (61.6) | 1.916 (48.7) | 1.551 (39.4) | .500 (12.7)  | .750 (19.1)  | 12             |
| 55*      | 20         | 2.061 (52.3) | 2.624 (66.6) | 2.230 (56.6) | 2.113 (53.7) | .875 (22.2)  | 1.250 (31.8) | 20             |
| 56       | 22         | 1.188 (30.2) | 2.574 (65.4) | 1.844 (46.8) | 1.332 (33.8) | .350 (8.9)   | .625 (15.9)  | 10             |
| 57       | 22         | 1.188 (30.2) | 2.574 (65.4) | 2.000 (50.8) | 1.770 (45.0) | .625 (15.9)  | .937 (23.8)  | 16             |
| 58*      | 22         | 2.061 (52.3) | 2.624 (66.6) | 2.230 (56.6) | 2.113 (53.7) | .875 (22.2)  | 1.250 (31.8) | 20             |
| 59       | 24         | 1.188 (30.2) | 2.574 (65.4) | 2.000 (50.8) | 1.770 (45.0) | .625 (15.9)  | .937 (23.8)  | 16             |
| 60       | 28         | 1.313 (33.4) | 2.624 (66.6) | 1.916 (48.7) | 1.551 (39.4) | .500 (12.7)  | .750 (19.1)  | 12             |
| 61       | 28         | 1.313 (33.4) | 2.624 (66.6) | 2.230 (56.6) | 2.113 (53.7) | .875 (22.2)  | 1.250 (31.8) | 20             |
| 62       | 32         | 1.375 (34.9) | 2.724 (69.2) | 2.024 (51.4) | 2.363 (60.0) | 1.000 (25.4) | 1.375 (34.9) | 24             |
| 63       | 36         | 1.406 (35.7) | 2.814 (71.5) | 2.230 (56.6) | 2.113 (53.7) | .875 (22.2)  | 1.250 (31.8) | 20             |
| 64       | 36         | 1.406 (35.7) | 2.814 (71.5) | 2.550 (64.8) | 2.770 (70.4) | 1.250 (31.8) | 1.625 (41.3) | 28             |
| 65       | 40         | 2.156 (54.8) | 2.814 (71.5) | 2.230 (56.6) | 2.113 (53.7) | .875 (22.2)  | 1.250 (31.8) | 20             |
| 66       | 40         | 2.156 (54.8) | 2.814 (71.5) | 2.550 (64.8) | 2.770 (70.4) | 1.250 (31.8) | 1.625 (41.3) | 28             |
| 67       | 44         | 2.156 (54.8) | 2.814 (71.5) | 2.230 (56.6) | 2.113 (53.7) | .875 (22.2)  | 1.250 (31.8) | 20             |
| 68       | 44         | 2.156 (54.8) | 2.814 (71.5) | 2.550 (64.8) | 2.770 (70.4) | 1.250 (31.8) | 1.625 (41.3) | 28             |
| 69       | 48         | 2.156 (54.8) | 2.814 (71.5) | 2.230 (56.6) | 2.113 (53.7) | .875 (22.2)  | 1.250 (31.8) | 20             |
| 70       | 48         | 2.156 (54.8) | 2.814 (71.5) | 2.550 (64.8) | 2.770 (70.4) | 1.250 (31.8) | 1.625 (41.3) | 28             |
| 71*      | 12         | 1.654 (42.0) | 2.234 (56.4) | 1.844 (46.8) | 1.332 (33.8) | .350 (8.9)   | .625 (15.9)  | 10             |
| 72*      | 18         | 1.937 (49.2) | 2.574 (65.4) | 2.000 (50.8) | 1.770 (45.0) | .625 (15.9)  | .937 (23.8)  | 16             |
| 73*      | 24         | 2.061 (52.3) | 2.624 (66.6) | 2.230 (56.6) | 2.116 (53.7) | .875 (22.2)  | 1.250 (31.8) | 20             |
| 74       | 14         | .813 (20.7)  | 2.124 (53.9) | 1.544 (39.2) | .957 (24.3)  | .125 (3.2)   | .312 (7.9)   | 04             |
| 75       | 16         | .906 (23.0)  | 2.234 (56.4) | 1.544 (39.2) | .957 (24.3)  | .125 (3.2)   | .312 (7.9)   | 04             |

\* Denotes Style 2

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