

# AS81511/14

## Straight EMI/RFI Environmental Backshell A & B



AS81511

### CONNECTOR DESIGNATOR:

**J** AS81511 Series I, II, III & IV

Basic  
Part Number

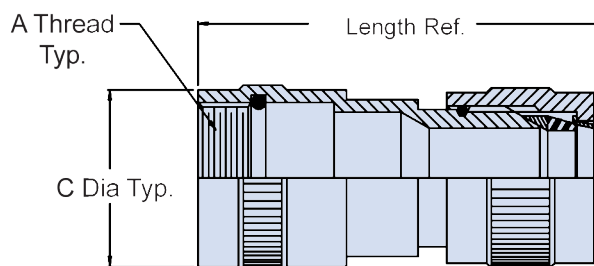
Dash Number  
(Table I)

**M81511/14 - 050**

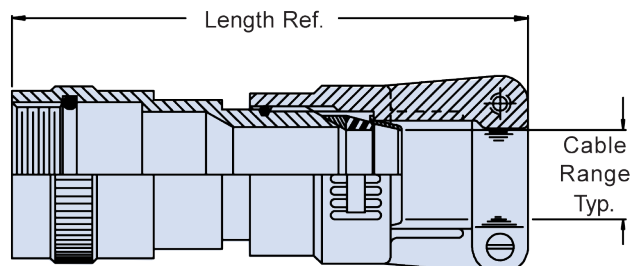
**TABLE I: Dash Number and Dimensions**

| Dash No. | Shell Size | Function | A Thread Class 2B | Length Ref. | Cable Range |             |
|----------|------------|----------|-------------------|-------------|-------------|-------------|
|          |            |          |                   |             | Min         | Max         |
| 001      | 08         | A        | .500 - 28 UNEF    | 2.22 (56.4) | .062 (1.6)  | .125 (3.2)  |
| 002      | 08         | A        | .500 - 28 UNEF    | 2.22 (56.4) | .125 (3.2)  | .250 (6.4)  |
| 003      | 08         | B        | .500 - 28 UNEF    | 2.72 (69.1) | .062 (1.6)  | .125 (3.2)  |
| 004      | 08         | B        | .500 - 28 UNEF    | 2.72 (69.1) | .125 (3.2)  | .250 (6.4)  |
| 005      | 08         | A        | .500 - 28 UNEF    | 2.72 (69.1) | .062 (1.6)  | .125 (3.2)  |
| 006      | 08         | A        | .500 - 28 UNEF    | 2.72 (69.1) | .125 (3.2)  | .250 (6.4)  |
| 007      | 08         | B        | .500 - 28 UNEF    | 3.22 (81.8) | .062 (1.6)  | .125 (3.2)  |
| 008      | 08         | B        | .500 - 28 UNEF    | 3.22 (81.8) | .125 (3.2)  | .250 (6.4)  |
| 009      | 10         | A        | .625 - 28 UN      | 2.22 (56.4) | .125 (3.2)  | .250 (6.4)  |
| 010      | 10         | A        | .625 - 28 UN      | 2.22 (56.4) | .250 (6.4)  | .375 (9.5)  |
| 011      | 10         | A        | .625 - 28 UN      | 2.22 (56.4) | .375 (9.5)  | .500 (12.7) |
| 012      | 10         | B        | .625 - 28 UN      | 2.72 (69.1) | .125 (3.2)  | .250 (6.4)  |
| 013      | 10         | B        | .625 - 28 UN      | 2.72 (69.1) | .250 (6.4)  | .375 (9.5)  |
| 014      | 10         | B        | .625 - 28 UN      | 2.72 (69.1) | .375 (9.5)  | .500 (12.7) |
| 015      | 10         | A        | .625 - 28 UN      | 2.72 (69.1) | .125 (3.2)  | .250 (6.4)  |
| 016      | 10         | A        | .625 - 28 UN      | 2.72 (69.1) | .250 (6.4)  | .375 (9.5)  |
| 017      | 10         | A        | .625 - 28 UN      | 2.72 (69.1) | .375 (9.5)  | .500 (12.7) |
| 018      | 10         | B        | .625 - 28 UN      | 3.22 (81.8) | .125 (3.2)  | .250 (6.4)  |
| 019      | 10         | B        | .625 - 28 UN      | 3.22 (81.8) | .250 (6.4)  | .375 (9.5)  |
| 020      | 10         | B        | .625 - 28 UN      | 3.22 (81.8) | .375 (9.5)  | .500 (12.7) |
| 021      | 14         | A        | .875 - 28 UN      | 2.22 (56.4) | .250 (6.4)  | .375 (9.5)  |
| 022      | 14         | A        | .875 - 28 UN      | 2.22 (56.4) | .375 (9.5)  | .500 (12.7) |
| 023      | 14         | A        | .875 - 28 UN      | 2.22 (56.4) | .500 (12.7) | .625 (15.9) |
| 024      | 14         | B        | .875 - 28 UN      | 2.72 (69.1) | .250 (6.4)  | .375 (9.5)  |
| 025      | 14         | B        | .875 - 28 UN      | 2.72 (69.1) | .375 (9.5)  | .500 (12.7) |
| 026      | 14         | B        | .875 - 28 UN      | 2.72 (69.1) | .500 (12.7) | .625 (15.9) |
| 027      | 14         | A        | .875 - 28 UN      | 2.72 (69.1) | .250 (6.4)  | .375 (9.5)  |
| 028      | 14         | A        | .875 - 28 UN      | 2.72 (69.1) | .375 (9.5)  | .500 (12.7) |
| 029      | 14         | A        | .875 - 28 UN      | 2.72 (69.1) | .500 (12.7) | .625 (15.9) |
| 030      | 14         | B        | .875 - 28 UN      | 3.22 (81.8) | .250 (6.4)  | .375 (9.5)  |
| 031      | 14         | B        | .875 - 28 UN      | 3.22 (81.8) | .375 (9.5)  | .500 (12.7) |
| 032      | 14         | B        | .875 - 28 UN      | 3.22 (81.8) | .500 (12.7) | .625 (15.9) |
| 033      | 16         | A        | 1.000 - 28 UN     | 2.22 (56.4) | .250 (6.4)  | .375 (9.5)  |
| 034      | 16         | A        | 1.000 - 28 UN     | 2.22 (56.4) | .375 (9.5)  | .500 (12.7) |
| 035      | 16         | A        | 1.000 - 28 UN     | 2.22 (56.4) | .500 (12.7) | .625 (15.9) |
| 036      | 16         | B        | 1.000 - 28 UN     | 2.72 (69.1) | .250 (6.4)  | .375 (9.5)  |
| 037      | 16         | B        | 1.000 - 28 UN     | 2.72 (69.1) | .375 (9.5)  | .500 (12.7) |

Table I Continued on Page F-4



**Function "A" Adapter Assembly**



**Function "B" Adapter Assembly**

### APPLICATION NOTES

1. For complete dimensions see the applicable Military Specification.
2. Metric dimensions (mm) are in parentheses.
3. Cable Range is defined as the accommodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. For functions C and D see page F-5.

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

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U.S. CAGE Code 06324

Printed in U.S.A.



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## Straight EMI/RFI Environmental Backshell A & B

TABLE I: Dash Number and Dimensions (Continued from Page F-3)

| Dash No. | Shell Size | Function | A Thread Class 2B | C Dia Max    | Length Ref. | Cable Range Min | Cable Range Max |
|----------|------------|----------|-------------------|--------------|-------------|-----------------|-----------------|
| 038      | 16         | B        | 1.000 - 28 UN     | 1.056 (26.8) | 2.72 (69.1) | .500 (12.7)     | .625 (15.9)     |
| 039      | 16         | A        | 1.000 - 28 UN     | 1.056 (26.8) | 2.72 (69.1) | .250 (6.4)      | .375 (9.5)      |
| 040      | 16         | A        | 1.000 - 28 UN     | 1.056 (26.8) | 2.72 (69.1) | .375 (9.5)      | .500 (12.7)     |
| 041      | 16         | A        | 1.000 - 28 UN     | 1.056 (26.8) | 2.72 (69.1) | .500 (12.7)     | .625 (15.9)     |
| 042      | 16         | B        | 1.000 - 28 UN     | 1.056 (26.8) | 3.22 (81.8) | .250 (6.4)      | .375 (9.5)      |
| 043      | 16         | B        | 1.000 - 28 UN     | 1.056 (26.8) | 3.22 (81.8) | .375 (9.5)      | .500 (12.7)     |
| 044      | 16         | B        | 1.000 - 28 UN     | 1.056 (26.8) | 3.22 (81.8) | .500 (12.7)     | .625 (15.9)     |
| 045      | 18         | A        | 1.125 - 28 UN     | 1.180 (30.0) | 2.22 (56.4) | .375 (9.5)      | .500 (12.7)     |
| 046      | 18         | A        | 1.125 - 28 UN     | 1.180 (30.0) | 2.22 (56.4) | .500 (12.7)     | .625 (15.9)     |
| 047      | 18         | A        | 1.125 - 28 UN     | 1.180 (30.0) | 2.22 (56.4) | .625 (15.9)     | .750 (19.1)     |
| 048      | 18         | B        | 1.125 - 28 UN     | 1.180 (30.0) | 2.72 (69.1) | .375 (9.5)      | .500 (12.7)     |
| 049      | 18         | B        | 1.125 - 28 UN     | 1.180 (30.0) | 2.72 (69.1) | .500 (12.7)     | .625 (15.9)     |
| 050      | 18         | B        | 1.125 - 28 UN     | 1.180 (30.0) | 2.72 (69.1) | .625 (15.9)     | .750 (19.1)     |
| 051      | 18         | A        | 1.125 - 28 UN     | 1.180 (30.0) | 2.72 (69.1) | .375 (9.5)      | .500 (12.7)     |
| 052      | 18         | A        | 1.125 - 28 UN     | 1.180 (30.0) | 2.72 (69.1) | .500 (12.7)     | .625 (15.9)     |
| 053      | 18         | A        | 1.125 - 28 UN     | 1.180 (30.0) | 2.72 (69.1) | .625 (15.9)     | .750 (19.1)     |
| 054      | 18         | B        | 1.125 - 28 UN     | 1.180 (30.0) | 3.22 (81.8) | .375 (9.5)      | .500 (12.7)     |
| 055      | 18         | B        | 1.125 - 28 UN     | 1.180 (30.0) | 3.22 (81.8) | .500 (12.7)     | .625 (15.9)     |
| 056      | 18         | B        | 1.125 - 28 UN     | 1.180 (30.0) | 3.22 (81.8) | .625 (15.9)     | .750 (19.1)     |
| 113      | 20         | A        | 1.250 - 28 UN     | 1.305 (33.1) | 2.30 (58.4) | .500 (12.7)     | .625 (15.9)     |
| 114      | 20         | A        | 1.250 - 28 UN     | 1.305 (33.1) | 2.30 (58.4) | .625 (15.9)     | .750 (19.1)     |
| 115      | 20         | A        | 1.250 - 28 UN     | 1.305 (33.1) | 2.30 (58.4) | .750 (19.1)     | .875 (22.2)     |
| 116      | 20         | B        | 1.250 - 28 UN     | 1.305 (33.1) | 2.80 (71.1) | .500 (12.7)     | .625 (15.9)     |
| 117      | 20         | B        | 1.250 - 28 UN     | 1.305 (33.1) | 2.80 (71.1) | .625 (15.9)     | .750 (19.1)     |
| 118      | 20         | B        | 1.250 - 28 UN     | 1.305 (33.1) | 2.80 (71.1) | .750 (19.1)     | .875 (22.2)     |
| 119      | 20         | A        | 1.250 - 28 UN     | 1.305 (33.1) | 2.80 (71.1) | .500 (12.7)     | .625 (15.9)     |
| 120      | 20         | A        | 1.250 - 28 UN     | 1.305 (33.1) | 2.80 (71.1) | .625 (15.9)     | .750 (19.1)     |
| 121      | 20         | A        | 1.250 - 28 UN     | 1.305 (33.1) | 2.80 (71.1) | .750 (19.1)     | .875 (22.2)     |
| 122      | 20         | B        | 1.250 - 28 UN     | 1.305 (33.1) | 3.30 (83.8) | .500 (12.7)     | .625 (15.9)     |
| 123      | 20         | B        | 1.250 - 28 UN     | 1.305 (33.1) | 3.30 (83.8) | .625 (15.9)     | .750 (19.1)     |
| 124      | 20         | B        | 1.250 - 28 UN     | 1.305 (33.1) | 3.30 (83.8) | .750 (19.1)     | .875 (22.2)     |
| 125      | 22         | A        | 1.375 - 28 UN     | 1.430 (36.3) | 2.30 (58.4) | .625 (15.9)     | .750 (19.1)     |
| 126      | 22         | A        | 1.375 - 28 UN     | 1.430 (36.3) | 2.30 (58.4) | .750 (19.1)     | .875 (22.2)     |
| 127      | 22         | A        | 1.375 - 28 UN     | 1.430 (36.3) | 2.30 (58.4) | .875 (22.2)     | 1.000 (25.4)    |
| 128      | 22         | B        | 1.375 - 28 UN     | 1.430 (36.3) | 2.80 (71.1) | .625 (15.9)     | .750 (19.1)     |
| 129      | 22         | B        | 1.375 - 28 UN     | 1.430 (36.3) | 2.80 (71.1) | .750 (19.1)     | .875 (22.2)     |
| 130      | 22         | B        | 1.375 - 28 UN     | 1.430 (36.3) | 2.80 (71.1) | .875 (22.2)     | 1.000 (25.4)    |
| 131      | 22         | A        | 1.375 - 28 UN     | 1.430 (36.3) | 2.80 (71.1) | .625 (15.9)     | .750 (19.1)     |
| 132      | 22         | A        | 1.375 - 28 UN     | 1.430 (36.3) | 2.80 (71.1) | .750 (19.1)     | .875 (22.2)     |
| 133      | 22         | A        | 1.375 - 28 UN     | 1.430 (36.3) | 2.80 (71.1) | .875 (22.2)     | 1.000 (25.4)    |
| 134      | 22         | B        | 1.375 - 28 UN     | 1.430 (36.3) | 3.30 (83.8) | .625 (15.9)     | .750 (19.1)     |
| 135      | 22         | B        | 1.375 - 28 UN     | 1.430 (36.3) | 3.30 (83.8) | .750 (19.1)     | .875 (22.2)     |
| 136      | 22         | B        | 1.375 - 28 UN     | 1.430 (36.3) | 3.30 (83.8) | .875 (22.2)     | 1.000 (25.4)    |
| 137      | 24         | A        | 1.500 - 28 UN     | 1.555 (39.5) | 2.30 (58.4) | .750 (19.1)     | .875 (22.2)     |
| 138      | 24         | A        | 1.500 - 28 UN     | 1.555 (39.5) | 2.30 (58.4) | .875 (22.2)     | 1.000 (25.4)    |
| 139      | 24         | A        | 1.500 - 28 UN     | 1.555 (39.5) | 2.30 (58.4) | 1.000 (25.4)    | 1.125 (28.6)    |
| 140      | 24         | B        | 1.500 - 28 UN     | 1.555 (39.5) | 2.80 (71.1) | .750 (19.1)     | .875 (22.2)     |
| 141      | 24         | B        | 1.500 - 28 UN     | 1.555 (39.5) | 2.80 (71.1) | .875 (22.2)     | 1.000 (25.4)    |
| 142      | 24         | B        | 1.500 - 28 UN     | 1.555 (39.5) | 2.80 (71.1) | 1.000 (25.4)    | 1.125 (28.6)    |
| 143      | 24         | A        | 1.500 - 28 UN     | 1.555 (39.5) | 2.80 (71.1) | .750 (19.1)     | .875 (22.2)     |
| 144      | 24         | A        | 1.500 - 28 UN     | 1.555 (39.5) | 2.80 (71.1) | .875 (22.2)     | 1.000 (25.4)    |
| 145      | 24         | A        | 1.500 - 28 UN     | 1.555 (39.5) | 2.80 (71.1) | 1.000 (25.4)    | 1.125 (28.6)    |
| 146      | 24         | B        | 1.500 - 28 UN     | 1.555 (39.5) | 3.30 (83.8) | .750 (19.1)     | .875 (22.2)     |
| 147      | 24         | B        | 1.500 - 28 UN     | 1.555 (39.5) | 3.30 (83.8) | .875 (22.2)     | 1.000 (25.4)    |
| 148      | 24         | B        | 1.500 - 28 UN     | 1.555 (39.5) | 3.30 (83.8) | 1.000 (25.4)    | 1.125 (28.6)    |

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



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