# AS85049/23 and MS3189C
## 45° EMI/RFI Non-Environmental Backshell

# Glenair®

**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) | |
|---|---|---|
| M85049/23 | -21 | N |

### 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 Flurocarbon Polymer*
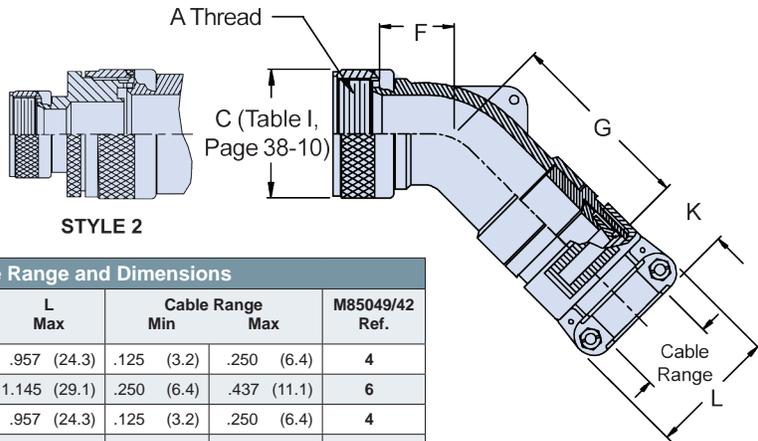*ZS = Stainless Steel, Zinc-Nickel, Black*

### Superseded Part Number

| MS3189C | 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

A Thread

F

C (Table I, Page 38-10)

G

K

**STYLE 2**

Cable Range

L

| TABLE II: Dash Number, Cable Range and Dimensions | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Dash No. | Shell Size | F Max | G Max | K Ref. | L Max | Cable Range Min | Max | M85049/42 Ref. |
| 1 | 3 | .687 (17.4) | 1.915 (48.6) | 1.027 (26.1) | .957 (24.3) | .125 (3.2) | .250 (6.4) | 4 |
| 2 | 3 | 1.500 (38.1) | 2.035 (51.7) | 1.027 (26.1) | 1.145 (29.1) | .250 (6.4) | .437 (11.1) | 6 |
| 3 | 8 | .625 (15.9) | 1.307 (33.2) | 1.027 (26.1) | .957 (24.3) | .125 (3.2) | .250 (6.4) | 4 |
| 4 | 10 | .687 (17.4) | 1.975 (50.2) | 1.027 (26.1) | .957 (24.3) | .125 (3.2) | .312 (7.9) | 4 |
| 5 | 10 | .687 (17.4) | 1.370 (34.8) | 1.027 (26.1) | 1.145 (29.1) | .250 (6.4) | .375 (9.5) | 6 |
| 6 | 12 | .750 (19.1) | 2.035 (51.7) | 1.027 (26.1) | .957 (24.3) | .125 (3.2) | .312 (7.9) | 4 |
| 7 | 12 | .750 (19.1) | 2.035 (51.7) | 1.027 (26.1) | 1.145 (29.1) | .250 (6.4) | .437 (11.1) | 6 |
| 8 | 12 | .750 (19.1) | 2.035 (51.7) | 1.027 (26.1) | 1.332 (33.8) | .350 (8.9) | .500 (12.7) | 10 |
| 9 | 14 | .812 (20.6) | 2.125 (54.0) | 1.027 (26.1) | 1.145 (29.1) | .250 (6.4) | .437 (11.1) | 6 |
| 10 | 14 | .812 (20.6) | 1.780 (45.2) | 1.027 (26.1) | 1.332 (33.8) | .350 (8.9) | .575 (14.6) | 10 |
| 11 | 16 | .906 (23.0) | 2.235 (56.8) | 1.027 (26.1) | 1.145 (29.1) | .250 (6.4) | .437 (11.1) | 6 |
| 12 | 16 | .906 (23.0) | 1.875 (47.6) | 1.059 (26.9) | 1.551 (39.4) | .500 (12.7) | .700 (17.8) | 12 |
| 13 | 18 | 1.093 (27.8) | 2.425 (61.6) | 1.027 (26.1) | 1.332 (33.8) | .350 (8.9) | .625 (15.9) | 10 |
| 14 | 18 | 1.093 (27.8) | 2.062 (52.4) | 1.156 (29.4) | 1.770 (45.0) | .625 (15.9) | .779 (19.8) | 16 |
| 15 | 20 | 1.093 (27.8) | 2.425 (61.6) | 1.027 (26.1) | 1.332 (33.8) | .350 (8.9) | .625 (15.9) | 10 |
| 16 | 20 | 1.093 (27.8) | 2.062 (52.4) | 1.156 (29.4) | 1.770 (45.0) | .625 (15.9) | .904 (23.0) | 16 |
| 17 | 22 | 1.188 (30.2) | 2.575 (65.4) | 1.059 (26.9) | 1.551 (39.4) | .500 (12.7) | .750 (19.1) | 12 |
| 18 | 22 | 1.188 (30.2) | 2.218 (56.3) | 1.375 (34.9) | 2.113 (53.7) | .875 (22.2) | 1.029 (26.1) | 20 |
| 19 | 24 | 1.188 (30.2) | 2.575 (65.4) | 1.069 (27.2) | 1.551 (39.4) | .500 (12.7) | .750 (19.1) | 12 |
| 20 | 24 | 1.188 (30.2) | 2.218 (56.3) | 1.375 (34.9) | 2.113 (53.7) | .875 (22.2) | 1.144 (29.1) | 20 |
| 21 | 28 | 1.312 (33.3) | 2.625 (66.7) | 1.156 (33.7) | 1.770 (45.0) | .625 (15.9) | .937 (23.8) | 16 |

### 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.

U.S. CAGE Code 06324

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www.glenair.com
**B-43**
E-Mail: sales@glenair.com

# Glenair®

**B**

| TABLE II: Continued from Page B-43 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Dash No. | Shell Size | F Max | G Max | K Ref. | L Max | Cable Range Min | Max | M85049/42 Ref. |
| 22 | 28 | 1.312 (33.3) | 2.281 (57.9) | 1.500 (38.1) | 2.363 (60.0) | 1.000 (25.4) | 1.375 (34.9) | 24 |
| 23 | 32 | 1.375 (34.9) | 2.725 (69.2) | 1.156 (29.4) | 1.770 (45.0) | .625 (15.9) | .937 (23.8) | 16 |
| 24 | 32 | 1.375 (34.9) | 2.725 (69.2) | 1.375 (34.9) | 2.113 (53.7) | .875 (22.2) | 1.250 (31.8) | 20 |
| 25 | 32 | 1.375 (34.9) | 2.500 (63.5) | 1.781 (45.2) | 2.770 (70.4) | 1.250 (31.8) | 1.625 (41.3) | 28 |
| 26 | 36 | 1.406 (35.7) | 2.815 (71.5) | 1.156 (29.4) | 1.770 (45.0) | .625 (15.9) | .937 (23.8) | 16 |
| 27 | 36 | 1.406 (35.7) | 2.815 (71.5) | 1.500 (38.1) | 2.363 (60.0) | 1.000 (25.4) | 1.375 (34.9) | 24 |
| 28 | 36 | 1.406 (35.7) | 2.469 (62.7) | 1.830 (46.5) | 3.020 (76.7) | 1.437 (36.5) | 1.840 (46.7) | 32 |
| 29 | 40 | 2.156 (54.8) | 2.815 (71.5) | 1.156 (29.4) | 1.770 (45.0) | .625 (15.9) | .937 (23.8) | 16 |
| 30 | 40 | 2.156 (54.8) | 2.815 (71.5) | 1.500 (38.1) | 2.363 (60.0) | 1.000 (25.4) | 1.375 (34.9) | 24 |
| 31 | 40 | 2.156 (54.8) | 2.469 (62.7) | 1.830 (46.5) | 3.020 (76.7) | 1.437 (36.5) | 1.875 (47.6) | 32 |
| 32 | 44 | 2.156 (54.8) | 2.815 (71.5) | 1.156 (29.4) | 1.770 (45.0) | .625 (15.9) | .937 (23.8) | 16 |
| 33 | 44 | 2.156 (54.8) | 2.815 (71.5) | 1.500 (38.1) | 2.363 (60.0) | 1.000 (25.4) | 1.375 (34.9) | 24 |
| 34 | 44 | 2.156 (54.8) | 2.469 (62.7) | 1.830 (46.5) | 3.020 (76.7) | 1.437 (36.5) | 1.875 (47.6) | 32 |
| 35 | 48 | 2.156 (54.8) | 2.815 (71.5) | 1.156 (29.4) | 1.770 (45.0) | .625 (15.9) | .937 (23.8) | 16 |
| 36 | 48 | 2.156 (54.8) | 2.815 (71.5) | 1.500 (38.1) | 2.363 (60.0) | 1.000 (25.4) | 1.375 (34.9) | 24 |
| 37 | 48 | 2.156 (54.8) | 2.469 (62.7) | 1.830 (46.5) | 3.020 (76.7) | 1.437 (36.5) | 1.875 (47.6) | 32 |
| 38 | 61 | 1.188 (30.2) | 2.575 (65.4) | 1.059 (26.9) | 1.551 (39.4) | .500 (12.7) | .750 (19.1) | 12 |
| 39 | 61 | 1.188 (30.2) | 2.218 (56.3) | 1.375 (34.9) | 2.113 (53.7) | .875 (22.2) | 1.184 (30.1) | 20 |
| 40 | 16 | .906 (23.0) | 2.235 (56.8) | 1.027 (26.1) | 1.332 (33.8) | .350 (8.9) | .625 (15.9) | 10 |
| 41 | 18 | 1.093 (27.8) | 2.425 (61.6) | 1.027 (26.1) | .957 (24.3) | .125 (3.2) | .312 (7.9) | 4 |
| 42 | 18 | 1.093 (27.8) | 2.425 (61.6) | 1.027 (26.1) | 1.145 (29.1) | .250 (6.4) | .437 (11.1) | 6 |
| 43 | 20 | 1.093 (27.8) | 2.425 (61.6) | 1.027 (26.1) | 1.145 (29.1) | .250 (6.4) | .437 (11.1) | 6 |
| 44 | 22 | 1.188 (30.2) | 2.575 (65.4) | 1.027 (26.1) | .957 (24.3) | .125 (3.2) | .312 (7.9) | 4 |
| 45 | 22 | 1.188 (30.2) | 2.575 (65.4) | 1.027 (26.1) | 1.145 (29.1) | .250 (6.4) | .437 (11.1) | 6 |
| 46 | 24 | 1.188 (30.2) | 2.575 (65.4) | 1.027 (26.1) | 1.332 (33.8) | .350 (8.9) | .625 (15.9) | 10 |
| 47 | 36 | 1.406 (35.7) | 2.815 (71.5) | 1.059 (26.9) | 1.551 (39.4) | .500 (12.7) | .750 (19.1) | 12 |
| 48 | 40 | 2.156 (54.8) | 2.815 (71.5) | 1.059 (26.9) | 1.551 (39.4) | .500 (12.7) | .750 (19.1) | 12 |
| 49* | 10 | 1.500 (38.1) | 2.035 (51.7) | 1.027 (26.1) | 1.145 (29.1) | .250 (6.4) | .437 (11.1) | 6 |
| 50* | 14 | 1.842 (46.8) | 2.425 (61.6) | 1.059 (26.9) | 1.551 (39.4) | .500 (12.7) | .750 (19.1) | 12 |
| 51* | 16 | 1.938 (49.2) | 2.575 (65.4) | 1.156 (29.4) | 1.770 (45.0) | .625 (15.9) | .937 (23.8) | 16 |
| 52 | 18 | 1.093 (27.8) | 2.425 (61.6) | 1.059 (26.9) | 1.551 (39.4) | .500 (12.7) | .750 (19.1) | 12 |
| 53 | 61 | 1.188 (30.2) | 2.575 (65.4) | 1.156 (29.4) | 1.770 (45.0) | .625 (15.9) | .937 (23.8) | 16 |
| 54 | 20 | 1.093 (27.8) | 2.425 (61.6) | 1.059 (26.9) | 1.551 (39.4) | .500 (12.7) | .750 (19.1) | 12 |
| 55* | 20 | 2.061 (52.3) | 2.625 (66.7) | 1.375 (34.9) | 2.113 (53.7) | .875 (22.2) | 1.250 (31.8) | 20 |
| 56 | 22 | 1.188 (30.2) | 2.575 (65.4) | 1.027 (26.1) | 1.332 (33.8) | .350 (8.9) | .625 (15.9) | 10 |
| 57 | 22 | 1.188 (30.2) | 2.575 (65.4) | 1.156 (29.4) | 1.770 (45.0) | .625 (15.9) | .937 (23.8) | 16 |
| 58* | 22 | 2.061 (52.3) | 2.625 (66.7) | 1.375 (34.9) | 2.113 (53.7) | .875 (22.2) | 1.250 (31.8) | 20 |
| 59 | 24 | 1.188 (30.2) | 2.575 (65.4) | 1.156 (29.4) | 1.770 (45.0) | .625 (15.9) | .937 (23.8) | 16 |
| 60 | 28 | 1.312 (33.3) | 2.625 (66.7) | 1.059 (26.9) | 1.551 (39.4) | .500 (12.7) | .750 (19.1) | 12 |
| 61 | 28 | 1.312 (33.3) | 2.625 (66.7) | 1.375 (34.9) | 2.113 (53.7) | .875 (22.2) | 1.250 (31.8) | 20 |
| 62 | 32 | 1.375 (34.9) | 2.725 (69.2) | 1.500 (38.1) | 2.363 (60.0) | 1.000 (25.4) | 1.375 (34.9) | 24 |
| 63 | 36 | 1.406 (35.7) | 2.815 (71.5) | 1.375 (34.9) | 2.113 (53.7) | .875 (22.2) | 1.250 (31.8) | 20 |
| 64 | 36 | 1.406 (35.7) | 2.815 (71.5) | 1.781 (45.2) | 2.770 (70.4) | 1.250 (31.8) | 1.625 (41.3) | 28 |
| 65 | 40 | 2.156 (54.8) | 2.815 (71.5) | 1.375 (34.9) | 2.113 (53.7) | .875 (22.2) | 1.250 (31.8) | 20 |
| 66 | 40 | 2.156 (54.8) | 2.815 (71.5) | 1.781 (45.2) | 2.770 (70.4) | 1.250 (31.8) | 1.625 (41.3) | 28 |
| 67 | 44 | 2.156 (54.8) | 2.815 (71.5) | 1.375 (34.9) | 2.113 (53.7) | .875 (22.2) | 1.250 (31.8) | 20 |
| 68 | 44 | 2.156 (54.8) | 2.815 (71.5) | 1.781 (45.2) | 2.770 (70.4) | 1.250 (31.8) | 1.625 (41.3) | 28 |
| 69 | 48 | 2.156 (54.8) | 2.815 (71.5) | 1.375 (34.9) | 2.113 (53.7) | .875 (22.2) | 1.250 (31.8) | 20 |
| 70 | 48 | 2.156 (54.8) | 2.815 (71.5) | 1.781 (45.2) | 2.770 (70.4) | 1.250 (31.8) | 1.625 (41.3) | 28 |
| 71* | 12 | 1.684 (42.8) | 2.236 (56.8) | 1.027 (26.1) | 1.332 (33.8) | .350 (8.9) | .625 (15.9) | 10 |
| 72* | 18 | 1.938 (49.2) | 2.575 (65.4) | 1.156 (29.4) | 1.770 (45.0) | .625 (15.9) | .937 (23.8) | 16 |
| 73* | 24 | 2.061 (52.3) | 2.625 (66.7) | 1.375 (34.9) | 2.113 (53.7) | .875 (22.2) | 1.250 (31.8) | 20 |
| 74 | 14 | .812 (20.6) | 2.125 (54.0) | 1.027 (26.1) | .957 (24.3) | .125 (3.2) | .312 (7.9) | 04 |
| 75 | 16 | .906 (23.0) | 2.235 (56.8) | 1.027 (26.1) | .957 (24.3) | .125 (3.2) | .312 (7.9) | 04 |

* Denotes Style 2

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

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**Офис по работе с юридическими лицами:**

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

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