

# STRAIN RELIEF CLAMP



Amphenol Strain Reliefs not only tidy-up the cable after termination but provide good strain relief at the termination area. It is a cost effective cable holding option when environmental protection is not a concern, and weight saving is a major consideration

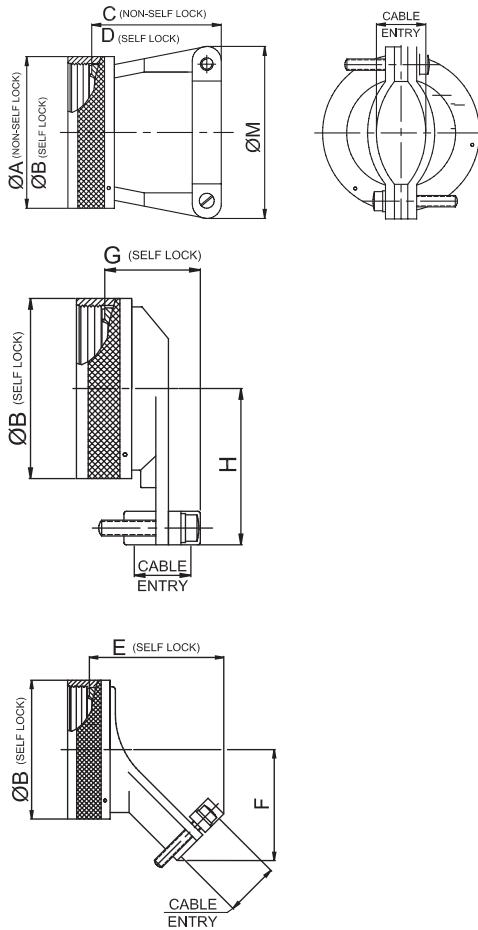
| For Connector Group |   | Page No.     |
|---------------------|---|--------------|
| J                   | → | XI-1 - XI-2  |
| K                   | → | XI-3 - XI-4  |
| L                   | → | XI-5 - XI-6  |
| M                   | → | XI-7 - XI-8  |
| N                   | → | XI-9 - XI-10 |

**Note:** For Connector group Identification refer Table 1 - A, B, C, D ([Page 7-11](#)) and for Material / Plating Finish, Refer Table-2 ([Page 12](#))



### Connector Group - J

Straight, 90°, 45°



#### Amphenol Part Number

BS1 X X J 99 99 9 X X

Series ————  
Angle ————  
S: straight  
A: 90deg  
B: 45deg  
Coupling ————  
R: spin  
D: direct  
Connector group ————

Finish: see Table-2  
Constant: X  
Length  
9 - for standard  
Length in table / figure  
Entry Size  
99 - for standard  
Entry Size in table / figure  
Shell size  
See Table-A

#### MIL Part Number

M85049 / 99 S 9 X

MIL Series ————  
Slash sheet  
52: Straight  
51: 90deg  
43: 45deg  
Finish:  
See Table-2  
Dash Number:  
See Table-A  
Coupling:  
S :Self lock  
“-“ :Non self lock(for 45deg)  
-1- : Non self lock(for straight/90deg)

NOTE: \* For more cable entry and length options, contact factory

TABLE - A

| AMPHENOL<br>PART NUMBER<br>DESIGNATOR | MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE<br>SIZE | A DIA.( MAX) |       | B DIA.( MAX) |       | C (MAX) |       | D (MAX) |       | E (MAX) |       | F (MAX) |       |
|---------------------------------------|----------------------------------|---------------------------------|--------------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
|                                       |                                  |                                 | INCH         | MM    | INCH         | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    |
| 08                                    | 08                               | 8                               | 0.62         | 15.67 | 0.89         | 22.48 | 0.63    | 16.00 | 0.73    | 18.54 | 1.32    | 33.53 | 0.77    | 19.61 |
| 10                                    | 10                               | 10                              | 0.73         | 18.64 | 1.01         | 25.65 | 0.74    | 18.80 | 0.85    | 21.59 | 1.36    | 34.65 | 0.80    | 20.40 |
| 12                                    | 12                               | 7/12                            | 0.86         | 21.79 | 1.14         | 28.83 | 0.86    | 21.84 | 0.98    | 24.89 | 1.44    | 36.53 | 0.87    | 22.00 |
| 14                                    | 14                               | 12/14                           | 0.98         | 24.99 | 1.26         | 32.00 | 0.86    | 21.84 | 0.98    | 24.89 | 1.48    | 37.59 | 0.93    | 23.57 |
| 16                                    | 16                               | 19/16                           | 1.11         | 28.24 | 1.39         | 35.18 | 0.99    | 25.15 | 1.10    | 27.94 | 1.59    | 40.28 | 0.99    | 25.17 |
| 18                                    | 18                               | 27/18                           | 1.22         | 30.94 | 1.51         | 38.35 | 1.24    | 31.50 | 1.35    | 34.29 | 1.70    | 43.28 | 1.11    | 28.19 |
| 20                                    | 20                               | 37/20                           | 1.35         | 34.16 | 1.64         | 41.53 | 1.36    | 34.54 | 1.48    | 37.59 | 1.75    | 44.40 | 1.17    | 29.77 |
| 22                                    | 22                               | 22                              | 1.47         | 37.29 | 1.76         | 44.70 | 1.49    | 37.85 | 1.60    | 40.64 | 1.79    | 45.52 | 1.24    | 31.37 |
| 24                                    | 24                               | 24                              | 1.59         | 40.46 | 1.89         | 47.88 | 1.61    | 40.89 | 1.73    | 43.94 | 1.84    | 46.63 | 1.30    | 32.94 |
| 28                                    | 28                               | 28                              | 1.97         | 50.01 | 2.14         | 54.23 | 1.76    | 44.70 | 1.88    | 47.75 | 1.96    | 49.81 | 1.54    | 39.19 |
| 32                                    | 32                               | 32                              | 2.22         | 56.36 | 2.40         | 60.83 | 1.95    | 49.53 | 2.13    | 54.10 | 2.05    | 52.04 | 1.67    | 42.37 |
| 36                                    | 36                               | 36                              | 2.47         | 62.71 | 2.64         | 66.93 | 2.33    | 59.18 | 2.44    | 61.98 | 2.09    | 53.16 | 1.79    | 45.54 |
| 40                                    | 40                               | 40                              | 2.72         | 69.06 | 2.89         | 73.28 | 2.51    | 63.75 | 2.63    | 66.80 | 2.09    | 53.19 | 1.92    | 48.72 |
| 44                                    | 44                               | 44                              | 2.97         | 75.41 | 3.14         | 79.63 | 2.89    | 73.41 | 3.00    | 76.20 | 2.36    | 59.94 | 2.13    | 54.15 |
| 48                                    | 48                               | 48                              | 3.22         | 81.76 | 3.39         | 85.98 | 3.26    | 82.80 | 3.40    | 86.36 | 2.45    | 62.18 | 2.26    | 57.33 |

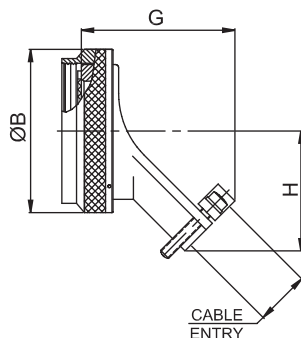
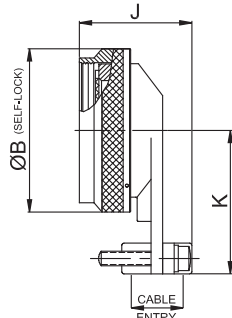
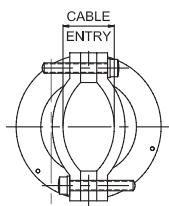
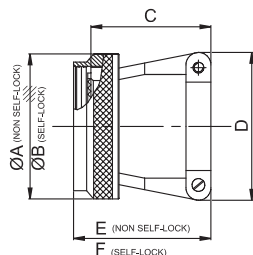
Table Continued

TABLE - A

| AMPHENOL<br>PART NUMBER<br>DESIGNATOR | MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE<br>SIZE | G (MAX ) |       | H (MAX) |       | M (MAX) |       | CABLE ENTRY |       |      |       |
|---------------------------------------|----------------------------------|---------------------------------|----------|-------|---------|-------|---------|-------|-------------|-------|------|-------|
|                                       |                                  |                                 |          |       |         |       |         |       | MAX         |       | MIN  |       |
| SHELL SIZE                            | DASH NO                          |                                 | INCH     | MM    | INCH    | MM    | INCH    | MM    | INCH        | MM    | INCH | MM    |
| 08                                    | 08                               | 8                               | 0.93     | 23.62 | 0.75    | 18.95 | 0.78    | 19.86 | 0.20        | 5.18  | 0.13 | 3.18  |
| 10                                    | 10                               | 10                              | 1.02     | 25.91 | 0.81    | 20.45 | 0.86    | 21.89 | 0.29        | 7.26  | 0.19 | 4.75  |
| 12                                    | 12                               | 7/12                            | 1.21     | 30.73 | 0.87    | 22.02 | 1.00    | 25.48 | 0.42        | 10.57 | 0.29 | 7.39  |
| 14                                    | 14                               | 12/14                           | 1.27     | 32.26 | 0.93    | 23.62 | 1.06    | 26.95 | 0.48        | 12.09 | 0.35 | 8.92  |
| 16                                    | 16                               | 19/16                           | 1.42     | 36.07 | 0.99    | 25.25 | 1.33    | 33.88 | 0.63        | 15.90 | 0.50 | 12.73 |
| 18                                    | 18                               | 27/18                           | 1.53     | 38.86 | 1.17    | 29.74 | 1.47    | 37.24 | 0.71        | 17.93 | 0.52 | 13.16 |
| 20                                    | 20                               | 37/20                           | 1.65     | 41.91 | 1.23    | 31.34 | 1.57    | 39.93 | 0.83        | 21.11 | 0.58 | 14.76 |
| 22                                    | 22                               | 22                              | 1.78     | 45.21 | 1.30    | 32.92 | 1.69    | 42.88 | 0.96        | 24.28 | 0.64 | 16.36 |
| 24                                    | 24                               | 24                              | 1.90     | 48.26 | 1.36    | 34.49 | 1.79    | 45.47 | 1.08        | 27.46 | 0.71 | 17.93 |
| 28                                    | 28                               | 28                              | 2.20     | 55.88 | 1.57    | 39.93 | 2.04    | 51.69 | 1.19        | 30.15 | 0.75 | 19.05 |
| 32                                    | 32                               | 32                              | 2.27     | 57.66 | 1.80    | 45.64 | 2.39    | 60.60 | 1.25        | 31.75 | 0.88 | 22.23 |
| 36                                    | 36                               | 36                              | 2.39     | 60.71 | 1.92    | 48.82 | 2.50    | 63.40 | 1.38        | 34.93 | 0.94 | 23.83 |
| 40                                    | 40                               | 40                              | 2.52     | 64.01 | 2.05    | 51.99 | 2.57    | 65.18 | 1.50        | 38.10 | 0.94 | 23.83 |
| 44                                    | 44                               | 44                              | 2.77     | 70.36 | 2.30    | 58.32 | 2.86    | 72.64 | 1.75        | 44.45 | 1.19 | 30.18 |
| 48                                    | 48                               | 48                              | 2.89     | 73.41 | 2.42    | 61.49 | 3.34    | 84.94 | 1.88        | 47.63 | 1.31 | 33.32 |

### Connector Group - K

Straight, 90°, 45°



#### Amphenol Part Number

BS1 X X K 99 99 9 X X

Series ————  
Angle ————  
S: straight  
A: 90deg  
B: 45deg  
Coupling ————  
R: spin  
D: direct  
Connector group ————

Finish: see Table-2  
Constant: X  
Length  
9 - for standard  
Length in table / figure  
Entry Size  
99 - for standard  
Entry Size in table / figure  
Shell size  
See Table-A

#### MIL Part Number

M85049 / 99 S 9 X

MIL Series ————  
Slash sheet  
49-2: Straight  
47 : 90deg  
Finish:  
See Table-2  
Dash Number:  
See Table-A  
Coupling:  
S :Self lock  
“-“ :Non self lock

NOTE: \* For more cable entry and length options, contact factory

TABLE - A

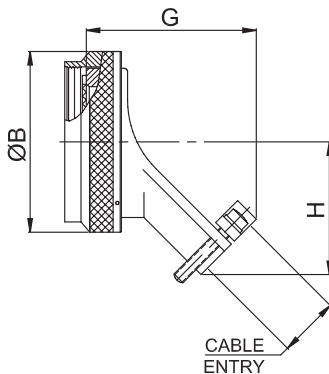
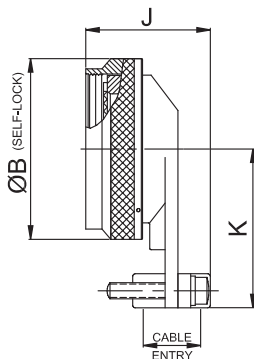
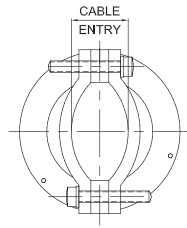
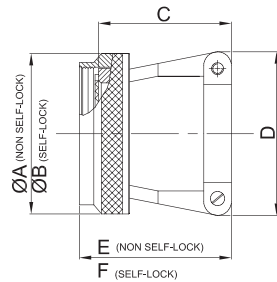
| AMPHENOL<br>PART NUMBER<br>DESIGNATOR | MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE<br>SIZE | A DIA.( MAX) |       | B DIA.( MAX) |       | C (MAX) |       | D (MAX) |       | E (MAX) |       | F (MAX) |       |
|---------------------------------------|----------------------------------|---------------------------------|--------------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
|                                       |                                  |                                 | INCH         | MM    | INCH         | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    |
| 08                                    | 08                               | 8                               | 0.62         | 15.67 | 0.89         | 22.48 | 0.63    | 16.00 | 0.73    | 18.54 | 1.32    | 33.53 | 0.77    | 19.61 |
| 10                                    | 10                               | 10                              | 0.73         | 18.64 | 1.01         | 25.65 | 0.74    | 18.80 | 0.85    | 21.59 | 1.36    | 34.65 | 0.80    | 20.40 |
| 12                                    | 12                               | 7/12                            | 0.86         | 21.79 | 1.14         | 28.83 | 0.86    | 21.84 | 0.98    | 24.89 | 1.44    | 36.53 | 0.87    | 22.00 |
| 14                                    | 14                               | 12/14                           | 0.98         | 24.99 | 1.26         | 32.00 | 0.86    | 21.84 | 0.98    | 24.89 | 1.48    | 37.59 | 0.93    | 23.57 |
| 16                                    | 16                               | 19/16                           | 1.11         | 28.24 | 1.39         | 35.18 | 0.99    | 25.15 | 1.10    | 27.94 | 1.59    | 40.28 | 0.99    | 25.17 |
| 18                                    | 18                               | 27/18                           | 1.22         | 30.94 | 1.51         | 38.35 | 1.24    | 31.50 | 1.35    | 34.29 | 1.70    | 43.28 | 1.11    | 28.19 |
| 20                                    | 20                               | 37/20                           | 1.35         | 34.16 | 1.64         | 41.53 | 1.36    | 34.54 | 1.48    | 37.59 | 1.75    | 44.40 | 1.17    | 29.77 |
| 22                                    | 22                               | 22                              | 1.47         | 37.29 | 1.76         | 44.70 | 1.49    | 37.85 | 1.60    | 40.64 | 1.79    | 45.52 | 1.24    | 31.37 |
| 24                                    | 24                               | 24                              | 1.59         | 40.46 | 1.89         | 47.88 | 1.61    | 40.89 | 1.73    | 43.94 | 1.84    | 46.63 | 1.30    | 32.94 |
| 28                                    | 28                               | 28                              | 1.97         | 50.01 | 2.14         | 54.23 | 1.76    | 44.70 | 1.88    | 47.75 | 1.96    | 49.81 | 1.54    | 39.19 |
| 32                                    | 32                               | 32                              | 2.22         | 56.36 | 2.40         | 60.83 | 1.95    | 49.53 | 2.13    | 54.10 | 2.05    | 52.04 | 1.67    | 42.37 |
| 36                                    | 36                               | 36                              | 2.47         | 62.71 | 2.64         | 66.93 | 2.33    | 59.18 | 2.44    | 61.98 | 2.09    | 53.16 | 1.79    | 45.54 |
| 40                                    | 40                               | 40                              | 2.72         | 69.06 | 2.89         | 73.28 | 2.51    | 63.75 | 2.63    | 66.80 | 2.09    | 53.19 | 1.92    | 48.72 |
| 44                                    | 44                               | 44                              | 2.97         | 75.41 | 3.14         | 79.63 | 2.89    | 73.41 | 3.00    | 76.20 | 2.36    | 59.94 | 2.13    | 54.15 |
| 48                                    | 48                               | 48                              | 3.22         | 81.76 | 3.39         | 85.98 | 3.26    | 82.80 | 3.40    | 86.36 | 2.45    | 62.18 | 2.26    | 57.33 |

Table Continued

| TABLE - A                             |                                  |                                 |          |       |         |       |         |       |             |       |      |       |
|---------------------------------------|----------------------------------|---------------------------------|----------|-------|---------|-------|---------|-------|-------------|-------|------|-------|
| AMPHENOL<br>PART NUMBER<br>DESIGNATOR | MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE<br>SIZE | G (MAX ) |       | H (MAX) |       | M (MAX) |       | CABLE ENTRY |       |      |       |
| SHELL SIZE                            | DASH NO                          |                                 | INCH     | MM    | INCH    | MM    | INCH    | MM    | MAX         |       | MIN  |       |
|                                       |                                  |                                 |          |       |         |       |         |       | INCH        | MM    | INCH | MM    |
| 08                                    | 08                               | 8                               | 0.93     | 23.62 | 0.75    | 18.95 | 0.78    | 19.86 | 0.20        | 5.18  | 0.13 | 3.18  |
| 10                                    | 10                               | 10                              | 1.02     | 25.91 | 0.81    | 20.45 | 0.86    | 21.89 | 0.29        | 7.26  | 0.19 | 4.75  |
| 12                                    | 12                               | 7/12                            | 1.21     | 30.73 | 0.87    | 22.02 | 1.00    | 25.48 | 0.42        | 10.57 | 0.29 | 7.39  |
| 14                                    | 14                               | 12/14                           | 1.27     | 32.26 | 0.93    | 23.62 | 1.06    | 26.95 | 0.48        | 12.09 | 0.35 | 8.92  |
| 16                                    | 16                               | 19/16                           | 1.42     | 36.07 | 0.99    | 25.25 | 1.33    | 33.88 | 0.63        | 15.90 | 0.50 | 12.73 |
| 18                                    | 18                               | 27/18                           | 1.53     | 38.86 | 1.17    | 29.74 | 1.47    | 37.24 | 0.71        | 17.93 | 0.52 | 13.16 |
| 20                                    | 20                               | 37/20                           | 1.65     | 41.91 | 1.23    | 31.34 | 1.57    | 39.93 | 0.83        | 21.11 | 0.58 | 14.76 |
| 22                                    | 22                               | 22                              | 1.78     | 45.21 | 1.30    | 32.92 | 1.69    | 42.88 | 0.96        | 24.28 | 0.64 | 16.36 |
| 24                                    | 24                               | 24                              | 1.90     | 48.26 | 1.36    | 34.49 | 1.79    | 45.47 | 1.08        | 27.46 | 0.71 | 17.93 |
| 28                                    | 28                               | 28                              | 2.20     | 55.88 | 1.57    | 39.93 | 2.04    | 51.69 | 1.19        | 30.15 | 0.75 | 19.05 |
| 32                                    | 32                               | 32                              | 2.27     | 57.66 | 1.80    | 45.64 | 2.39    | 60.60 | 1.25        | 31.75 | 0.88 | 22.23 |
| 36                                    | 36                               | 36                              | 2.39     | 60.71 | 1.92    | 48.82 | 2.50    | 63.40 | 1.38        | 34.93 | 0.94 | 23.83 |
| 40                                    | 40                               | 40                              | 2.52     | 64.01 | 2.05    | 51.99 | 2.57    | 65.18 | 1.50        | 38.10 | 0.94 | 23.83 |
| 44                                    | 44                               | 44                              | 2.77     | 70.36 | 2.30    | 58.32 | 2.86    | 72.64 | 1.75        | 44.45 | 1.19 | 30.18 |
| 48                                    | 48                               | 48                              | 2.89     | 73.41 | 2.42    | 61.49 | 3.34    | 84.94 | 1.88        | 47.63 | 1.31 | 33.32 |

### Connector Group - L

Straight, 90°, 45°



#### Amphenol Part Number

BS1 X X L 99 99 9 X X

Series

Angle

S: straight  
A: 90deg  
B: 45deg

Coupling

R: spin  
D: direct

Connector group

Finish: see Table-2

Constant: X

Length  
9 - for standard  
Length in table / figure

Entry Size  
99 - for standard  
Entry Size in table / figure

Shell size  
See Table-A

#### MIL Part Number

M85049 / 99 S 9 X

MIL Series

Slash sheet  
38 : Straight  
39 : 90deg

Finish:  
See Table-2

Shell size:  
See Table-A

Coupling:  
S :Self lock  
"-" :Non self lock

NOTE: \* For more cable entry and length options, contact factory

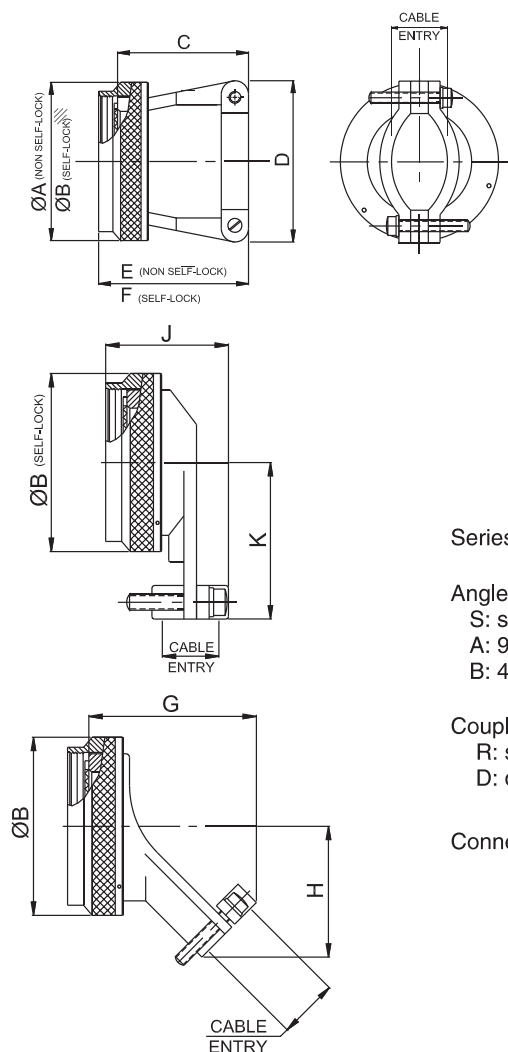
| TABLE - A                                |                                  |                                           |              |       |              |       |         |       |         |       |         |       |         |       |
|------------------------------------------|----------------------------------|-------------------------------------------|--------------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| AMPHENOL<br>PART<br>NUMBER<br>DESIGNATOR | MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL<br>SIZE/CODE<br>(REF.) | A DIA. (MAX) |       | B DIA. (MAX) |       | C (MAX) |       | D (MAX) |       | E (MAX) |       | F (MAX) |       |
| SHELL SIZE                               | CONNECTOR<br>SHELL SIZE          |                                           | INCH         | MM    | INCH         | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    |
| 08                                       | 09                               | 09 / A                                    | 0.75         | 19.05 | 0.86         | 21.82 | 0.91    | 23.11 | 0.85    | 21.59 | 1.10    | 27.94 | 1.21    | 30.73 |
| 10                                       | 11                               | 11 / B                                    | 0.85         | 21.59 | 0.98         | 24.99 | 0.91    | 23.11 | 0.90    | 22.86 | 1.10    | 27.94 | 1.21    | 30.73 |
| 12                                       | 13                               | 13 / C                                    | 1.00         | 25.40 | 1.16         | 29.36 | 1.01    | 25.65 | 1.10    | 27.94 | 1.20    | 30.48 | 1.31    | 33.27 |
| 14                                       | 15                               | 15 / D                                    | 1.10         | 27.94 | 1.28         | 32.54 | 1.06    | 26.92 | 1.15    | 29.21 | 1.25    | 31.75 | 1.35    | 34.29 |
| 16                                       | 17                               | 17 / E                                    | 1.25         | 31.75 | 1.41         | 35.71 | 1.16    | 29.46 | 1.30    | 33.02 | 1.36    | 34.44 | 1.45    | 36.83 |
| 18                                       | 19                               | 19 / F                                    | 1.40         | 35.56 | 1.52         | 38.51 | 1.41    | 35.81 | 1.50    | 38.10 | 1.60    | 40.64 | 1.71    | 43.43 |
| 20                                       | 21                               | 21 / G                                    | 1.50         | 38.10 | 1.64         | 41.68 | 1.51    | 38.35 | 1.60    | 40.64 | 1.70    | 43.21 | 1.81    | 45.97 |
| 22                                       | 23                               | 23 / H                                    | 1.65         | 41.91 | 1.77         | 44.86 | 1.66    | 42.16 | 1.70    | 43.18 | 1.85    | 46.99 | 1.95    | 49.53 |
| 24                                       | 25                               | 25 / J                                    | 1.75         | 44.45 | 1.89         | 48.03 | 1.76    | 44.70 | 1.80    | 45.72 | 1.95    | 49.56 | 2.05    | 52.07 |

Table Continued

| TABLE - A                                |                                  |                                           |         |       |         |       |         |       |         |       |             |       |      |       |
|------------------------------------------|----------------------------------|-------------------------------------------|---------|-------|---------|-------|---------|-------|---------|-------|-------------|-------|------|-------|
| AMPHENOL<br>PART<br>NUMBER<br>DESIGNATOR | MIL PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL<br>SIZE/CODE<br>(REF.) | G (MAX) |       | H (MAX) |       | J (MAX) |       | K (MAX) |       | CABLE ENTRY |       |      |       |
| SHELL SIZE                               | CONNECTOR<br>SHELL SIZE          |                                           | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | MIN         |       | MAX  |       |
|                                          |                                  |                                           |         |       |         |       |         |       |         |       | INCH        | MM    | INCH | MM    |
| 08                                       | 09                               | 09 / A                                    | 1.32    | 33.53 | 0.77    | 19.61 | 1.31    | 33.27 | 1.00    | 25.40 | 0.10        | 2.49  | 0.23 | 5.94  |
| 10                                       | 11                               | 11 / B                                    | 1.36    | 34.65 | 0.80    | 20.40 | 1.31    | 33.27 | 1.10    | 27.94 | 0.15        | 3.89  | 0.23 | 5.94  |
| 12                                       | 13                               | 13 / C                                    | 1.44    | 36.53 | 0.87    | 22.00 | 1.51    | 38.35 | 1.10    | 27.94 | 0.19        | 4.83  | 0.33 | 8.33  |
| 14                                       | 15                               | 15 / D                                    | 1.48    | 37.59 | 0.93    | 23.57 | 1.55    | 39.37 | 1.25    | 31.75 | 0.26        | 6.60  | 0.46 | 11.61 |
| 16                                       | 17                               | 17 / E                                    | 1.59    | 40.28 | 0.99    | 25.17 | 1.71    | 43.43 | 1.30    | 33.02 | 0.28        | 7.19  | 0.61 | 15.60 |
| 18                                       | 19                               | 19 / F                                    | 1.70    | 43.28 | 1.11    | 28.19 | 1.81    | 45.97 | 1.35    | 34.29 | 0.33        | 8.26  | 0.63 | 16.10 |
| 20                                       | 21                               | 21 / G                                    | 1.75    | 44.40 | 1.17    | 29.77 | 1.95    | 49.53 | 1.60    | 40.64 | 0.34        | 8.71  | 0.70 | 17.73 |
| 22                                       | 23                               | 23 / H                                    | 1.79    | 45.52 | 1.24    | 31.37 | 2.10    | 53.34 | 1.75    | 44.45 | 0.38        | 9.68  | 0.82 | 20.90 |
| 24                                       | 25                               | 25 / J                                    | 1.84    | 46.63 | 1.30    | 32.94 | 2.21    | 56.13 | 1.85    | 46.99 | 0.42        | 10.62 | 0.85 | 21.67 |

### Connector Group - M

Straight, 90°, 45°



#### Amphenol Part Number

BS1 X X M 99 99 9 X X

Series — BS1  
Angle — X  
S: straight  
A: 90deg  
B: 45deg  
Coupling — X  
R: spin  
D: direct  
Connector group — M  
Finish: see Table-2  
Constant: X  
Length — 99  
Length in table / figure  
Entry Size — 9  
9 - for standard  
Entry Size in table / figure  
Shell size  
See Table-A

NOTE: \* For more cable entry and length options, contact factory

| TABLE - A                                |                         |              |       |              |       |         |       |         |       |         |       |         |       |
|------------------------------------------|-------------------------|--------------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| AMPHENOL<br>PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE | A DIA. (MAX) |       | B DIA. (MAX) |       | C (MAX) |       | D (MAX) |       | E (MAX) |       | F (MAX) |       |
|                                          |                         | INCH         | MM    | INCH         | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    |
| 08                                       | 8                       | 0.75         | 19.05 | 0.86         | 21.82 | 0.91    | 23.11 | 0.85    | 21.59 | 1.10    | 27.94 | 1.15    | 29.21 |
| 10                                       | 10                      | 0.85         | 21.59 | 0.98         | 24.99 | 0.91    | 23.11 | 0.90    | 22.86 | 1.10    | 27.94 | 1.15    | 29.21 |
| 12                                       | 12                      | 1.00         | 25.40 | 1.16         | 29.36 | 1.01    | 25.65 | 1.10    | 27.94 | 1.20    | 30.48 | 1.25    | 31.75 |
| 14                                       | 14                      | 1.10         | 27.94 | 1.28         | 32.54 | 1.06    | 26.92 | 1.15    | 29.21 | 1.25    | 31.75 | 1.30    | 33.02 |
| 16                                       | 16                      | 1.25         | 31.75 | 1.41         | 35.71 | 1.16    | 29.46 | 1.30    | 33.02 | 1.36    | 34.44 | 1.40    | 35.56 |
| 18                                       | 18                      | 1.40         | 35.56 | 1.52         | 38.51 | 1.41    | 35.81 | 1.50    | 38.10 | 1.60    | 40.64 | 1.65    | 41.91 |
| 20                                       | 20                      | 1.50         | 38.10 | 1.64         | 41.68 | 1.51    | 38.35 | 1.60    | 40.64 | 1.70    | 43.21 | 1.75    | 44.45 |
| 22                                       | 22                      | 1.65         | 41.91 | 1.77         | 44.86 | 1.66    | 42.16 | 1.70    | 43.18 | 1.85    | 46.99 | 1.90    | 48.26 |
| 24                                       | 24                      | 1.75         | 44.45 | 1.89         | 48.03 | 1.76    | 44.70 | 1.80    | 45.72 | 1.95    | 49.56 | 2.00    | 50.80 |

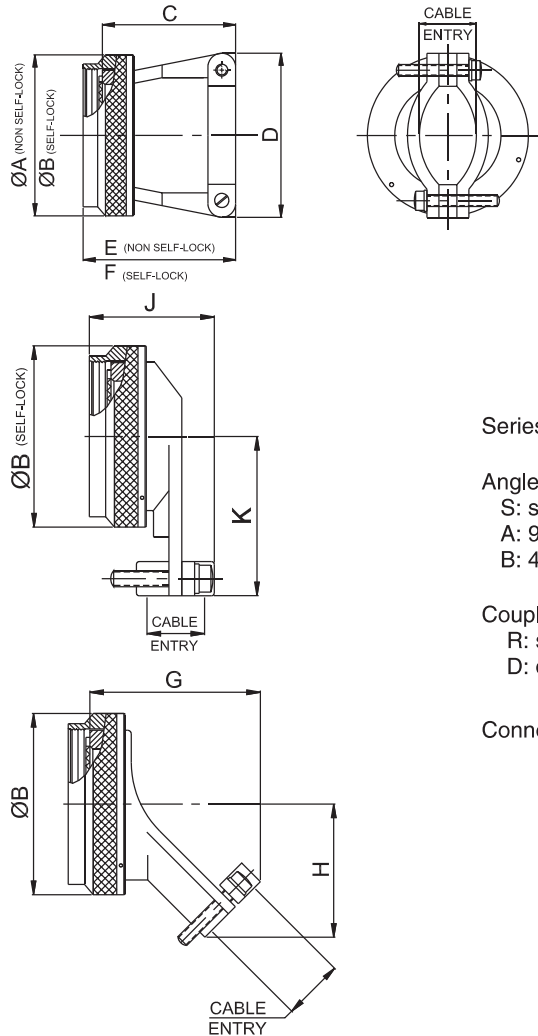
Table Continued

TABLE - A

| AMPHENOL<br>PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE | G (MAX) |       | H (MAX) |       | J (MAX) |       | K (MAX) |       | CABLE ENTRY |       |      |       |
|------------------------------------------|-------------------------|---------|-------|---------|-------|---------|-------|---------|-------|-------------|-------|------|-------|
|                                          |                         | NCH     | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | MIN         |       | MAX  |       |
|                                          |                         |         |       |         |       |         |       |         |       | INCH        | MM    | INCH | MM    |
| 08                                       | 8                       | 1.32    | 33.53 | 0.77    | 19.61 | 1.38    | 35.05 | 1.00    | 25.40 | 0.10        | 2.49  | 0.23 | 5.94  |
| 10                                       | 10                      | 1.36    | 34.65 | 0.80    | 20.40 | 1.38    | 35.05 | 1.10    | 27.94 | 0.15        | 3.89  | 0.23 | 5.94  |
| 12                                       | 12                      | 1.44    | 36.53 | 0.87    | 22.00 | 1.46    | 37.08 | 1.10    | 27.94 | 0.19        | 4.83  | 0.33 | 8.33  |
| 14                                       | 14                      | 1.48    | 37.59 | 0.93    | 23.57 | 1.63    | 41.40 | 1.25    | 31.75 | 0.26        | 6.60  | 0.46 | 11.61 |
| 16                                       | 16                      | 1.59    | 40.28 | 0.99    | 25.17 | 1.80    | 45.72 | 1.30    | 33.02 | 0.28        | 7.19  | 0.61 | 15.60 |
| 18                                       | 18                      | 1.70    | 43.28 | 1.11    | 28.19 | 1.82    | 46.23 | 1.35    | 34.29 | 0.33        | 8.26  | 0.63 | 16.10 |
| 20                                       | 20                      | 1.75    | 44.40 | 1.17    | 29.77 | 1.90    | 48.26 | 1.60    | 40.64 | 0.34        | 8.71  | 0.70 | 17.73 |
| 22                                       | 22                      | 1.79    | 45.52 | 1.24    | 31.37 | 2.04    | 51.82 | 1.75    | 44.45 | 0.38        | 9.68  | 0.82 | 20.90 |
| 24                                       | 24                      | 1.84    | 46.63 | 1.30    | 32.94 | 2.15    | 54.61 | 1.85    | 46.99 | 0.42        | 10.62 | 0.85 | 21.67 |

### Connector Group - N

Straight, 90°, 45°



#### Amphenol Part Number

BS1 X X N 99 99 9 X X

Series ——— BS1

Angle ——— X  
S: straight  
A: 90deg  
B: 45deg

Coupling ——— X  
R: spin  
D: direct

Connector group ——— N

Finish: see Table-2

Constant: X

Length  
9 - for standard  
Length in table / figure

Entry Size  
99 - for standard  
Entry Size in table / figure

Shell size  
See Table-A

**NOTE:** \* For more cable entry and length options, contact factory

| TABLE - A                                |                         |              |       |              |       |         |       |         |       |         |       |         |       |         |       |
|------------------------------------------|-------------------------|--------------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| AMPHENOL<br>PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE | A DIA. (MAX) |       | B DIA. (MAX) |       | C (MAX) |       | D (MAX) |       | E (MAX) |       | F (MAX) |       | G (MAX) |       |
|                                          |                         | INCH         | MM    | INCH         | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH    | MM    |
| 08                                       | 8                       | 0.75         | 19.05 | 0.86         | 21.82 | 0.91    | 23.11 | 0.85    | 21.59 | 1.10    | 27.94 | 1.15    | 29.21 | 1.32    | 33.53 |
| 10                                       | 10                      | 0.85         | 21.59 | 0.98         | 24.99 | 0.91    | 23.11 | 0.90    | 22.86 | 1.10    | 27.94 | 1.15    | 29.21 | 1.36    | 34.65 |
| 12                                       | 12                      | 1.00         | 25.40 | 1.16         | 29.36 | 1.01    | 25.65 | 1.10    | 27.94 | 1.20    | 30.48 | 1.25    | 31.75 | 1.44    | 36.53 |
| 14                                       | 14                      | 1.10         | 27.94 | 1.28         | 32.54 | 1.06    | 26.92 | 1.15    | 29.21 | 1.25    | 31.75 | 1.30    | 33.02 | 1.48    | 37.59 |
| 16                                       | 16                      | 1.25         | 31.75 | 1.41         | 35.71 | 1.16    | 29.46 | 1.30    | 33.02 | 1.36    | 34.44 | 1.40    | 35.56 | 1.59    | 40.28 |
| 18                                       | 18                      | 1.40         | 35.56 | 1.52         | 38.51 | 1.41    | 35.81 | 1.50    | 38.10 | 1.60    | 40.64 | 1.65    | 41.91 | 1.70    | 43.28 |
| 20                                       | 20                      | 1.50         | 38.10 | 1.64         | 41.68 | 1.51    | 38.35 | 1.60    | 40.64 | 1.70    | 43.21 | 1.75    | 44.45 | 1.75    | 44.40 |
| 22                                       | 22                      | 1.65         | 41.91 | 1.77         | 44.86 | 1.66    | 42.16 | 1.70    | 43.18 | 1.85    | 46.99 | 1.90    | 48.26 | 1.79    | 45.52 |
| 24                                       | 24                      | 1.75         | 44.45 | 1.89         | 48.03 | 1.76    | 44.70 | 1.80    | 45.72 | 1.95    | 49.56 | 2.00    | 50.80 | 1.84    | 46.63 |

Table Continued

| TABLE - A                                |                         |         |       |         |       |         |       |             |       |      |       |
|------------------------------------------|-------------------------|---------|-------|---------|-------|---------|-------|-------------|-------|------|-------|
| AMPHENOL<br>PART<br>NUMBER<br>DESIGNATOR | CONNECTOR<br>SHELL SIZE | H (MAX) |       | J (MAX) |       | K (MAX) |       | CABLE ENTRY |       |      |       |
| SHELL SIZE                               |                         |         |       |         |       |         |       | MIN         |       | MAX  |       |
|                                          |                         | INCH    | MM    | INCH    | MM    | INCH    | MM    | INCH        | MM    | INCH | MM    |
| 08                                       | 8                       | 0.77    | 19.61 | 1.38    | 35.05 | 1.00    | 25.40 | 0.10        | 2.49  | 0.23 | 5.94  |
| 10                                       | 10                      | 0.80    | 20.40 | 1.38    | 35.05 | 1.10    | 27.94 | 0.15        | 3.89  | 0.23 | 5.94  |
| 12                                       | 12                      | 0.87    | 22.00 | 1.46    | 37.08 | 1.10    | 27.94 | 0.19        | 4.83  | 0.33 | 8.33  |
| 14                                       | 14                      | 0.93    | 23.57 | 1.63    | 41.40 | 1.25    | 31.75 | 0.26        | 6.60  | 0.46 | 11.61 |
| 16                                       | 16                      | 0.99    | 25.17 | 1.80    | 45.72 | 1.30    | 33.02 | 0.28        | 7.19  | 0.61 | 15.60 |
| 18                                       | 18                      | 1.11    | 28.19 | 1.82    | 46.23 | 1.35    | 34.29 | 0.33        | 8.26  | 0.63 | 16.10 |
| 20                                       | 20                      | 1.17    | 29.77 | 1.90    | 48.26 | 1.60    | 40.64 | 0.34        | 8.71  | 0.70 | 17.73 |
| 22                                       | 22                      | 1.24    | 31.37 | 2.04    | 51.82 | 1.75    | 44.45 | 0.38        | 9.68  | 0.82 | 20.90 |
| 24                                       | 24                      | 1.30    | 32.94 | 2.15    | 54.61 | 1.85    | 46.99 | 0.42        | 10.62 | 0.85 | 21.67 |



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