

# 62IN Series Miniature Circular Bayonet-Coupled Connectors AC6201 0313

# Wuppertal



## Introduction

Amphenol 62IN series connectors are general purpose, environment resistant, miniature circular connectors with three-point bayonet coupling and five-key polarisation. Designed to meet the requirements of MIL-C-26482, Series I solder type, these connectors are widely used in applications calling for quick disconnect connectors.

62IN connectors are intermateable and interchangeable with all MIL-C-26482 connectors, whether solder or crimp type. These connectors are used worldwide in military and industrial applications and are available in a variety of sizes, styles and configurations.

Amphenol 62IN series connectors are also approved to Indian Defence Standard Joint Services Specifications JSS50813, certified by the Electronic Components Standardisation Organisation (LCSO), Bangalore, India.

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Amphenol 62IN series miniature circular bayonet-coupled solder connectors meet the most critical application needs. Design versatility and high reliability performance makes this series ideal for environmental sealing.

## Shell

Shell hardware is manufactured from aluminum alloy and cadmium plated with an olive drab chromate finish. This finish has excellent conductivity; it is non-reflecting and corrosion resistant. Black anodised finish and cadmium-free zinc cobalt plating are also available. For details, contact factory.

Shell styles consist of wall and box mounting receptacles, jam nut receptacles, cable mounting receptacles and straight plugs. Connectors are available in 9 shell sizes : 8, 10, 12, 14, 1, 18, 20, 22 and 24.

Positive shell-to-shell keying is provided with keys and keyways in a choice of either normal (N) or any of the preferred alternate positions: W,X,Y and Z. this prevents mismatching between shells of different orientations and overcomes the difficulties associated with rotated inserts and standard key/keyway orientation. in the latter system, damage to inserts or contacts can result if excessive force is used to engage non-mating halves.

## Insert and grommet

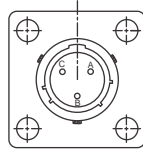
The insert and grommet are moulded from resilient neoprene, offering high dielectric strength and resistance to oils, gasoline and low temperature. This provides electrical isolation of the contacts in the insert and excellent moisture sealing.

## Contacts

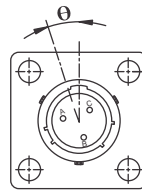
Gold over nickel plated and socket contacts are machined from brass and designed for solder connections. Industrial version crimp contacts are also available on request.

## Specifications

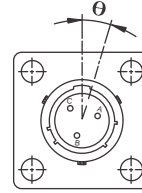
|  |                |                             |              |                |
|--|----------------|-----------------------------|--------------|----------------|
| Number of contacts                                   |                | 2 thru 61 in discrete steps |              |                |
| Operating temperature                                |                | -55° C to +125° C           |              |                |
| Current rating                                       |                |                             |              |                |
|  | Contact size   | Rated current               | Test current | Potential drop |
|  | 20             | 7.5A                        | 7.5A         | ≤ 55mV         |
|  | 16             | 13A                         | 13A          | ≤ 50mV         |
| Voltage rating (max. operating voltage at sea level) |                |                             |              |                |
|  | Service rating | AC (rms)                    |              |                |
|  | I              | 600V                        |              |                |
|  | II             | 1000V                       |              |                |
| Insulation resistance                                |                | ≥ 5000 Mohm                 |              |                |
| Voltage proof  |                |                             |              |                |
|  | Service rating | Test voltage (rms)          |              |                |
|  | I              | 1500V                       |              |                |
|  | II             | 2300V                       |              |                |
| Wire range accommodations                            |                |                             |              |                |
|  | Contact size   | AWG wire size               |              |                |
|  | 20             | 24, 22 and 20               |              |                |
|  | 16             | 20, 18 and 16               |              |                |



Normal position of  
insert with pin  
contacts



Alternate position of insert  
with socket contacts  
( $\theta$  counterclockwise)

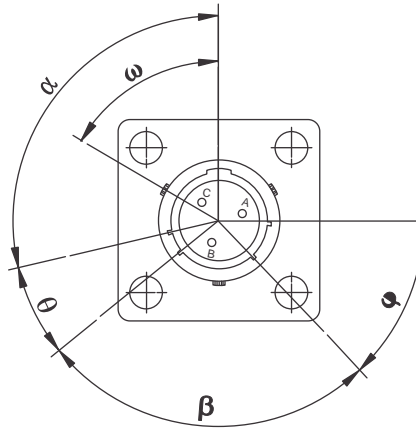


Alternate position of insert  
with pin contacts  
( $\theta$  clockwise)

Each diagram shows mating face of insert

| Insert<br>arrangement | Orientation |     |     |     |
|-----------------------|-------------|-----|-----|-----|
|                       | W           | X   | Y   | Z   |
| Angles in degrees     |             |     |     |     |
| 8-2                   | 58          | 122 | -   | -   |
| 8-3                   | 60          | 210 | -   | -   |
| 8-4                   | 45          | -   | -   | -   |
| 8-33                  | 90          | -   | -   | -   |
| 8-98                  | -           | -   | -   | -   |
| 10-2                  | -           | -   | -   | -   |
| * 10-5                | 90          | -   | -   | -   |
| 10-6                  | 90          | -   | -   | -   |
| 10-7                  | -           | -   | -   | -   |
| 10-8                  | -           | -   | -   | -   |
| 12-3                  | -           | -   | 180 | -   |
| 12-4                  | 38          | -   | -   | -   |
| 12-8                  | 90          | 112 | 203 | 292 |
| 12-10                 | 60          | 155 | 270 | 295 |
| 12-12                 | -           | -   | -   | -   |
| 12-14                 | -           | -   | -   | -   |
| *14-02                | -           | -   | -   | -   |
| *14-04                | 40          | 92  | 184 | 273 |
| 14-05                 | 40          | 92  | 184 | 273 |
| *14-08                | 43          | 90  | -   | -   |
| 14-12                 | 43          | 90  | -   | -   |
| *14-14                | 17          | 110 | 155 | 234 |
| 14-15                 | 17          | 110 | 155 | 234 |
| 14-18                 | 15          | 90  | 180 | 270 |
| 14-19                 | 30          | 165 | 315 | -   |
| 16-8                  | 54          | 152 | 180 | 331 |
| 16-23                 | 158         | 270 | -   | -   |
| 16-26                 | 60          | -   | 275 | 338 |
| *18-02                | 62          | 119 | 241 | 340 |
| 18-11                 | 62          | 119 | 241 | 340 |
| 18-32                 | 85          | 138 | 222 | 265 |
| 20-16                 | 238         | 318 | 333 | 347 |
| 20-27                 | 72          | 144 | 216 | 288 |
| 20-29                 | 63          | 144 | 252 | 333 |
| 20-39                 | 45          | 126 | 225 | -   |
| 20-41                 | 45          | 126 | 225 | -   |
| 22-21                 | 16          | 135 | 175 | 349 |
| *22-36                | 16          | 135 | 175 | 349 |
| 22-41                 | 39          | 135 | 264 | -   |
| *22-44                | 30          | 142 | 226 | 314 |
| 22-55                 | 30          | 142 | 226 | 314 |
| 24-31                 | 90          | 225 | 225 | -   |
| 24-61                 | 90          | 180 | 270 | 324 |

\* Special insert arrangements consult factory



| Shell size | Angles in degrees |    |     |     |     |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |
|------------|-------------------|----|-----|-----|-----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|
|            | α                 |    |     |     |     | θ  |    |    |    |    | β  |    |    |     |    | φ  |    |    |    |    |
|            | N                 | B  | C   | E   | F   | N  | B  | C  | E  | F  | N  | B  | C  | E   | F  | N  | B  | C  | E  | F  |
| 8          | 105               | -  | -   | 118 | 82  | 35 | -  | -  | 30 | 50 | 75 | -  | -  | 100 | 75 | 50 | -  | -  | 30 | 45 |
| 10         | 105               | 85 | 125 | 115 | 85  | 35 | 35 | 35 | 30 | 50 | 75 | 75 | 75 | 100 | 75 | 50 | 50 | 50 | 30 | 45 |
| 12         | 105               | 89 | 121 | 115 | 85  | 35 | 35 | 35 | 30 | 50 | 75 | 75 | 75 | 100 | 75 | 50 | 50 | 50 | 30 | 45 |
| 14         | 105               | 91 | 119 | 75  | 120 | 35 | 35 | 35 | 30 | 50 | 75 | 75 | 75 | 100 | 75 | 50 | 50 | 50 | 30 | 35 |
| 16         | 105               | 93 | 117 | 75  | 120 | 35 | 35 | 35 | 30 | 50 | 75 | 75 | 75 | 100 | 75 | 50 | 50 | 50 | 30 | 35 |
| 18         | 105               | 95 | 115 | 75  | 120 | 35 | 35 | 35 | 30 | 50 | 75 | 75 | 75 | 100 | 75 | 50 | 50 | 50 | 30 | 35 |
| 20         | 105               | 95 | 115 | 75  | 120 | 35 | 35 | 35 | 30 | 50 | 75 | 75 | 75 | 100 | 75 | 50 | 50 | 50 | 30 | 35 |
| 22         | 105               | 97 | 113 | 75  | 120 | 35 | 35 | 35 | 30 | 50 | 75 | 75 | 75 | 75  | 75 | 50 | 50 | 50 | 30 | 35 |
| 24         | 105               | 97 | 113 | 75  | 120 | 35 | 35 | 35 | 30 | 50 | 75 | 75 | 75 | 100 | 75 | 50 | 50 | 50 | 30 | 35 |

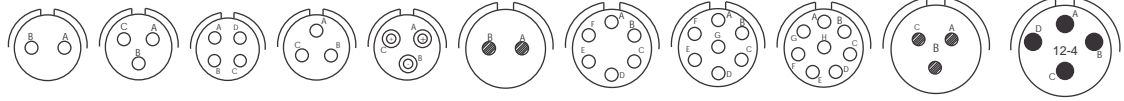
| Shell size | Angle in degrees |    |    |    |    |
|------------|------------------|----|----|----|----|
|            | ω                |    |    |    |    |
|            | N                | B  | C  | E  | F  |
| 8          | 60               | -  | -  | 73 | 47 |
| 10         | 60               | 40 | 80 | 70 | 50 |
| 12         | 60               | 44 | 76 | 70 | 50 |
| 14         | 60               | 46 | 74 | 30 | 75 |
| 16         | 60               | 48 | 72 | 30 | 75 |
| 18         | 60               | 50 | 70 | 30 | 75 |
| 20         | 60               | 50 | 70 | 30 | 75 |
| 22         | 60               | 52 | 68 | 30 | 75 |
| 24         | 60               | 54 | 68 | 30 | 75 |

Angles shown are with reference to the major key or keyway. In receptacles, the major keyway always remains fixed in relation to the mounting flange. For B, C, E and F orientations, the three bayonet locations and associated minor keyways are rotated completely as shown in the tables. The accompanying diagram shows a receptacle shell with keyways. Corresponding key orientations for a mating plug shell are therefore always clockwise.

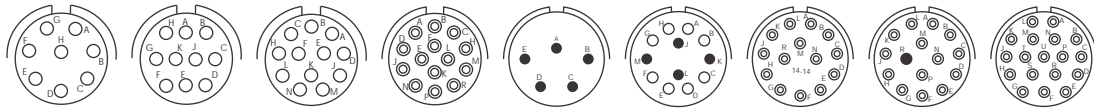
Front face of pin insert or rear of socket insert illustrated

## Contact Legend

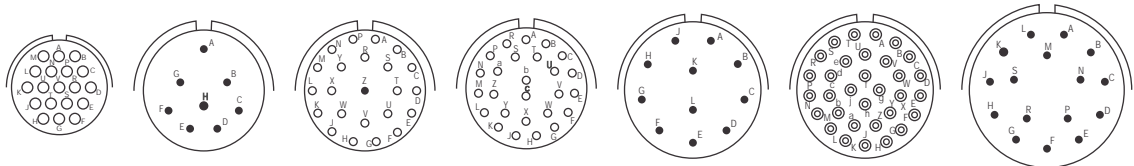
|              |    |    |
|--------------|----|----|
| Symbol       | ●  | ○  |
| Contact size | 16 | 20 |



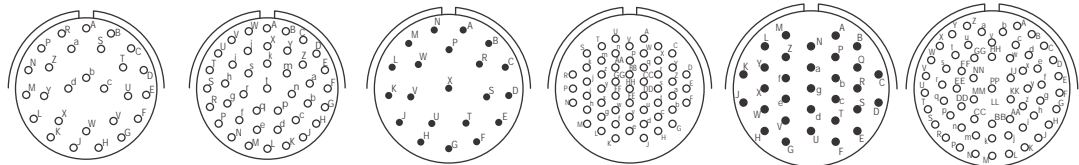
|                    |     |     |     |      |      |      |      |      |      |      |      |
|--------------------|-----|-----|-----|------|------|------|------|------|------|------|------|
| Insert arrangement | 8-2 | 8-3 | 8-4 | 8-33 | 8-98 | 10-2 | 10-6 | 10-7 | 10-8 | 12-3 | 12-4 |
| Service rating     | I   | I   | I   | I    | I    | II   | I    | I    | I    | II   | II   |
| Number of contacts | 2   | 3   | 4   | 3    | 3    | 2    | 6    | 7    | 8    | 3    | 4    |
| Contact size       | 20  | 20  | 20  | 20   | 20   | 16   | 20   | 20   | 20   | 16   | 16   |



|                    |      |       |       |       |      |       |       |       |       |
|--------------------|------|-------|-------|-------|------|-------|-------|-------|-------|
| Insert arrangement | 12-8 | 12-10 | 12-12 | 12-14 | 14-5 | 14-12 | 14-14 | 14-15 | 14-18 |
| Service rating     | I    | I     | I     | I     | II   | I     | I     | I     | I     |
| Number of contacts | 8    | 10    | 12    | 14    | 5    | 4 8   | 14    | 1 14  | 18    |
| Contact size       | 20   | 20    | 20    | 20    | 16   | 16 20 | 20    | 16 20 | 20    |

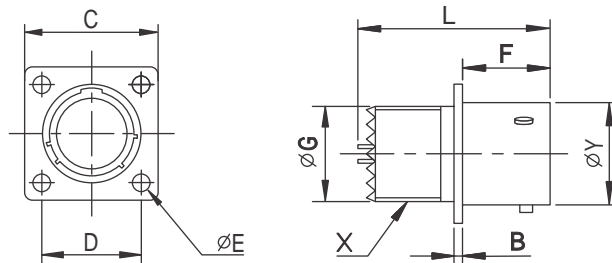
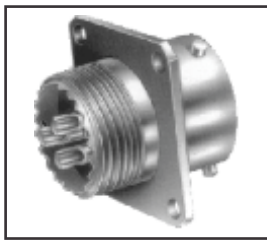


|                    |       |      |       |       |       |       |       |
|--------------------|-------|------|-------|-------|-------|-------|-------|
| Insert arrangement | 14-19 | 16-8 | 16-23 | 16-26 | 18-11 | 18-32 | 20-16 |
| Service rating     | I     | II   | I     | I     | II    | I     | II    |
| Number of contacts | 19    | 8    | 1 22  | 26    | 11    | 32    | 16    |
| Contact size       | 20    | 16   | 16 20 | 20    | 16    | 20    | 16    |



|                    |       |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|-------|
| Insert arrangement | 20-27 | 20-41 | 22-21 | 22-55 | 24-31 | 24-61 |
| Service rating     | I     | I     | II    | I     | I     | I     |
| Number of contacts | 27    | 41    | 21    | 55    | 31    | 61    |
| Contact size       | 20    | 20    | 16    | 20    | 16    | 20    |

## Wall Mounting Receptacles

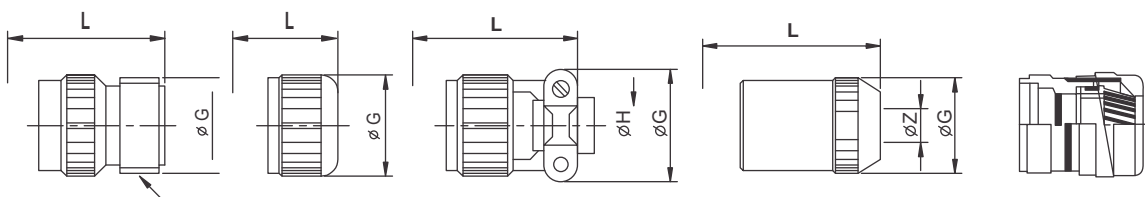


### Without termination assemblies

All dimensions in mm

| Shell size | B    | C     | D     | E Dia | F     | G Dia | L     | Y Dia | X threads in inches |
|------------|------|-------|-------|-------|-------|-------|-------|-------|---------------------|
| 8          | 1.58 | 20.75 | 15.09 | 3.05  | 11.30 | 11.02 | 24.84 | 12.02 | 7/16-28 UNEF        |
| 10         | 1.58 | 23.93 | 18.26 | 3.05  | 11.30 | 14.17 | 24.84 | 14.99 | 9/16-24 NEF         |
| 12         | 1.58 | 26.32 | 20.63 | 3.05  | 11.30 | 17.35 | 24.84 | 19.05 | 11/16-24 NEF        |
| 14         | 1.58 | 28.70 | 23.10 | 3.05  | 11.30 | 20.52 | 24.84 | 22.23 | 13/16-20 UNEF       |
| 16         | 1.58 | 31.07 | 24.61 | 3.05  | 11.30 | 23.70 | 24.84 | 25.40 | 15/16-20 UNEF       |
| 18         | 1.58 | 33.45 | 26.58 | 3.05  | 11.30 | 26.85 | 24.84 | 28.58 | 1 1/16-18 NEF       |
| 20         | 2.03 | 36.63 | 29.36 | 3.05  | 14.10 | 30.02 | 26.62 | 31.75 | 1 3/16-18 NEF       |
| 22         | 2.03 | 39.80 | 31.75 | 3.05  | 14.10 | 30.02 | 26.62 | 34.93 | 1 5/16-18 NEF       |
| 24         | 2.03 | 42.98 | 34.93 | 3.74  | 14.99 | 36.37 | 26.62 | 38.10 | 1 7/16-18 NEF       |

Note: Serrations / antirotation feature is not provided on shells for 10A, 10E and 10F styles.



Style 10A

Style 10E

Style 10F

Style 10J

10PHM/EGM

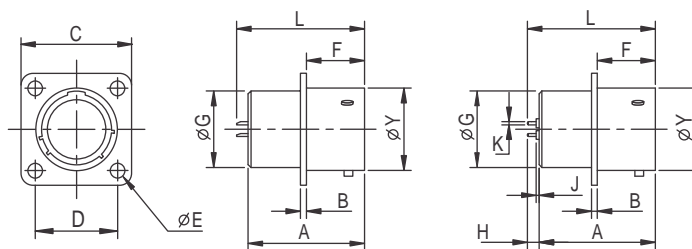
### With termination assemblies

All dimensions in mm

| Shell size | Style 10A |       |                    | Style 10E |       | Style 10F |       |       | Style 10J |       |                      |       |
|------------|-----------|-------|--------------------|-----------|-------|-----------|-------|-------|-----------|-------|----------------------|-------|
|            | G Dia     | L     | M thread in inches | G Dia     | L     | G Dia     | H Dia | L     | G Dia     | L     | For cable size Z Dia |       |
|            |           |       |                    |           |       |           |       |       |           |       | min                  | max   |
| 8          | 14.25     | 41.25 | 1/2-28 UNEF        | 14.25     | 32.54 | 21.03     | 3.96  | 44.76 | 14.25     | 46.89 | 4.28                 | 5.84  |
| 10         | 17.43     | 41.25 | 5/8-24 NEF         | 17.43     | 32.54 | 22.63     | 4.78  | 44.76 | 17.43     | 46.89 | 5.21                 | 7.93  |
| 12         | 20.60     | 41.25 | 3/4-20 UNEF        | 20.60     | 32.54 | 25.81     | 7.93  | 44.76 | 20.80     | 49.45 | 8.59                 | 11.23 |
| 14         | 23.78     | 41.25 | 7/8-20 UNEF        | 23.78     | 32.54 | 28.98     | 9.58  | 44.10 | 23.78     | 54.54 | 10.57                | 13.69 |
| 16         | 26.98     | 41.25 | 1-20 UNEF          | 26.98     | 32.54 | 30.56     | 12.70 | 47.65 | 26.98     | 59.61 | 13.97                | 15.65 |
| 18         | 30.12     | 41.25 | 1 3/16-18 NEF      | 30.12     | 32.54 | 36.22     | 15.87 | 47.65 | 30.12     | 64.70 | 15.24                | 17.07 |
| 20         | 33.30     | 42.85 | 1 3/16-18 NEF      | 33.30     | 35.13 | 36.22     | 15.87 | 53.80 | 33.30     | 71.91 | 16.13                | 18.98 |
| 22         | 36.47     | 42.85 | 1 7/16-18 NEF      | 36.47     | 35.13 | 39.80     | 19.05 | 53.80 | 36.47     | 76.99 | 17.02                | 21.49 |
| 24         | 39.65     | 43.94 | 1 7/16-18 NEF      | 39.65     | 35.13 | 44.07     | 30.32 | 57.15 | 39.65     | 78.08 | 18.80                | 22.71 |



## Box Mounting Receptacles



Style 12E  
solder

Style 12E(219)  
film wire terminations

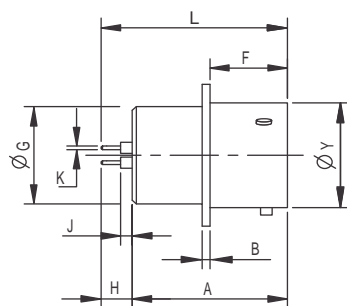
All dimensions in mm

| Shell<br>size | B    | C     | D     | E<br>Dia | F     | G<br>Dia | Y<br>Dia | Style 12E |       | Style 12E(219) |      |      |      |      |      |       |
|---------------|------|-------|-------|----------|-------|----------|----------|-----------|-------|----------------|------|------|------|------|------|-------|
|               |      |       |       |          |       |          |          | A         | L     | A              | H    |      | J    | K    |      | L     |
|               |      |       |       |          |       |          |          |           |       |                | min  | max  |      | min  | max  |       |
| 8             | 1.58 | 20.75 | 15.09 | 3.05     | 11.30 | 11.02    | 12.02    | 20.32     | 24.84 | 20.32          | 4.22 | 5.03 | 2.26 | 0.70 | 0.76 | 24.95 |
| 10            | 1.58 | 23.93 | 18.26 | 3.05     | 11.30 | 14.17    | 14.99    | 20.32     | 24.84 | 20.32          | 4.22 | 5.03 | 2.26 | 0.70 | 0.76 | 24.95 |
| 12            | 1.58 | 26.32 | 20.63 | 3.05     | 11.30 | 17.35    | 19.05    | 20.32     | 24.84 | 20.32          | 4.22 | 5.03 | 2.26 | 0.70 | 0.76 | 24.95 |
| 14            | 1.58 | 28.70 | 23.10 | 3.05     | 11.30 | 20.52    | 22.23    | 20.32     | 24.84 | 20.32          | 4.22 | 5.03 | 2.26 | 0.70 | 0.76 | 24.95 |
| 16            | 1.58 | 31.07 | 24.61 | 3.05     | 11.30 | 23.70    | 25.40    | 20.32     | 24.84 | 20.32          | 4.22 | 5.03 | 2.26 | 0.70 | 0.76 | 24.95 |
| 18            | 1.58 | 33.45 | 26.58 | 3.05     | 11.30 | 26.85    | 28.58    | 20.32     | 24.84 | 20.32          | 4.22 | 5.03 | 2.26 | 0.70 | 0.76 | 24.95 |
| 20            | 2.03 | 36.63 | 29.36 | 3.05     | 14.10 | 30.02    | 31.75    | 22.23     | 26.62 | 22.23          | 3.89 | 4.70 | 1.93 | 0.70 | 0.76 | 26.85 |
| 22            | 2.03 | 39.80 | 31.75 | 3.05     | 14.10 | 30.02    | 34.93    | 22.23     | 26.62 | 22.23          | 3.89 | 4.70 | 1.93 | 0.70 | 0.76 | 26.85 |
| 24            | 2.03 | 42.98 | 34.93 | 3.74     | 14.99 | 36.37    | 38.10    | 22.23     | 26.62 | 22.23          | 3.89 | 4.70 | 1.93 | 0.70 | 0.76 | 26.85 |

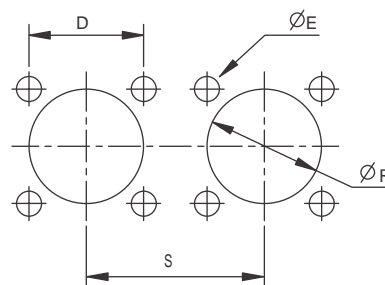
## Mounting data

### Panel cutouts

### Wall mounting receptacles



Style 12E(220)  
film wire terminations



All dimensions in mm

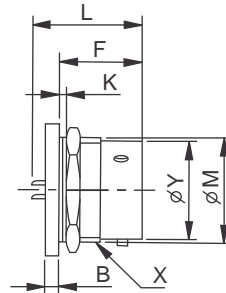
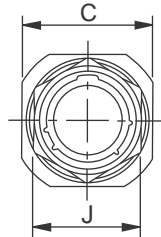
All dimensions in mm

| Shell size | A     | H    |      | J    | K    |      | L     |
|------------|-------|------|------|------|------|------|-------|
|            |       | min  | max  |      | min  | max  |       |
| 8          | 20.32 | 7.95 | 8.00 | 4.60 | 0.70 | 0.76 | 28.32 |
| 10         | 20.32 | 7.95 | 8.00 | 4.60 | 0.70 | 0.76 | 28.32 |
| 12         | 20.32 | 7.95 | 8.00 | 4.60 | 0.70 | 0.76 | 28.32 |
| 14         | 20.32 | 7.95 | 8.00 | 4.60 | 0.70 | 0.76 | 28.32 |
| 16         | 20.32 | 7.95 | 8.00 | 4.60 | 0.70 | 0.76 | 28.32 |
| 18         | 20.32 | 7.95 | 8.00 | 4.60 | 0.70 | 0.76 | 28.32 |
| 20         | 22.23 | 7.95 | 8.00 | 4.60 | 0.70 | 0.76 | 30.23 |
| 22         | 22.23 | 7.95 | 8.00 | 4.60 | 0.70 | 0.76 | 30.23 |
| 24         | 22.23 | 7.95 | 8.00 | 4.60 | 0.70 | 0.76 | 30.23 |

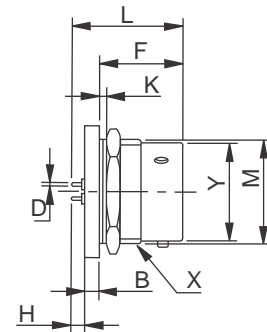
| Shell size | D     | E Dia | R Dia | S     |
|------------|-------|-------|-------|-------|
| 8          | 15.09 | 3.05  | 14.42 | 31.73 |
| 10         | 18.29 | 3.05  | 17.53 | 34.52 |
| 12         | 20.75 | 3.05  | 21.84 | 38.89 |
| 14         | 23.11 | 3.05  | 25.15 | 42.06 |
| 16         | 24.64 | 3.05  | 28.19 | 45.24 |
| 18         | 26.92 | 3.05  | 31.49 | 48.03 |
| 20         | 29.46 | 3.05  | 35.54 | 51.59 |
| 22         | 31.75 | 3.05  | 37.85 | 52.76 |
| 24         | 35.05 | 3.05  | 41.15 | 57.84 |

Note: Style 220 is also available for 57A type receptacles with similar termination dimensions as 12E(220) style shown above.

## Jam Nut Receptacles



Style 57A  
solder

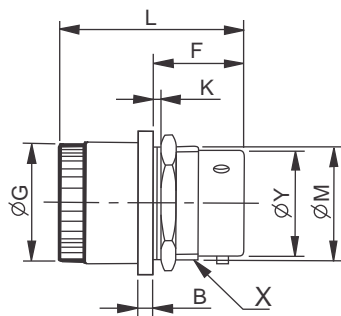


Style 57A(219)  
film wire terminators

### Without termination assemblies

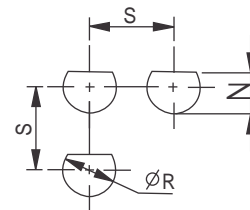
All dimensions in mm

| Shell size | B    | C     | D    |      | F      | H    |      | J     | K Panel Thickness |      | Style 57A L | Style 57A (219) L | M Dia. | Y Dia. | X Thread in inches |
|------------|------|-------|------|------|--------|------|------|-------|-------------------|------|-------------|-------------------|--------|--------|--------------------|
|            |      |       | Min. | Max. |        | Min. | Max. |       | Min.              | Max. |             |                   |        |        |                    |
| 8          | 2.97 | 23.93 | 0.70 | 0.76 | 17.93  | 3.38 | 4.40 | 19.05 | 1.58              | 3.18 | 24.84       | 24.84             | 13.39  | 12.03  | 9/16-24 NEF        |
| 10         | 2.97 | 27.10 | 0.70 | 0.76 | 17.93  | 3.38 | 4.40 | 22.23 | 1.58              | 3.18 | 24.84       | 24.84             | 16.56  | 14.99  | 1/16-24 NEF        |
| 12         | 2.97 | 31.88 | 0.70 | 0.76 | 17.93  | 3.38 | 4.40 | 26.98 | 1.58              | 3.18 | 24.84       | 24.84             | 20.70  | 19.05  | 7/8-20 UNEF        |
| 14         | 2.97 | 35.05 | 0.70 | 0.76 | 17.93  | 3.38 | 4.40 | 30.15 | 1.58              | 3.18 | 24.84       | 24.84             | 23.85  | 22.23  | 1-20 UNEF          |
| 16         | 2.97 | 38.23 | 0.70 | 0.76 | 17.93  | 3.38 | 4.40 | 33.32 | 1.58              | 3.18 | 24.84       | 24.84             | 27.00  | 25.40  | 1 1/8-18 NEF       |
| 18         | 2.97 | 41.40 | 0.70 | 0.76 | 17.932 | 3.38 | 4.40 | 36.50 | 1.58              | 3.18 | 24.84       | 24.84             | 30.18  | 28.58  | 1 1/4-18 NEF       |
| 20         | 3.76 | 46.15 | 0.70 | 0.76 | 22.71  | 3.38 | 4.40 | 38.68 | 1.58              | 6.35 | 26.62       | 30.35             | 33.35  | 31.75  | 1 3/8-18 NEF       |
| 22         | 3.76 | 49.33 | 0.70 | 0.76 | 22.71  | 3.38 | 4.40 | 42.85 | 1.58              | 6.35 | 26.62       | 30.35             | 36.53  | 34.93  | 1 1/2-18 NEF       |
| 24         | 3.76 | 52.50 | 0.70 | 0.76 | 23.55  | 3.38 | 4.40 | 46.05 | 1.58              | 6.35 | 26.62       | 30.35             | 39.70  | 38.10  | 1 5/8-18 NEF       |



Style 14E

### Mounting data Panel cutouts



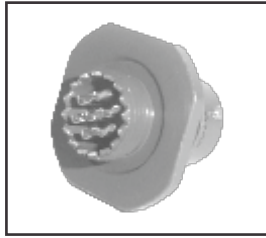
### With termination assemblies

All dimensions in mm

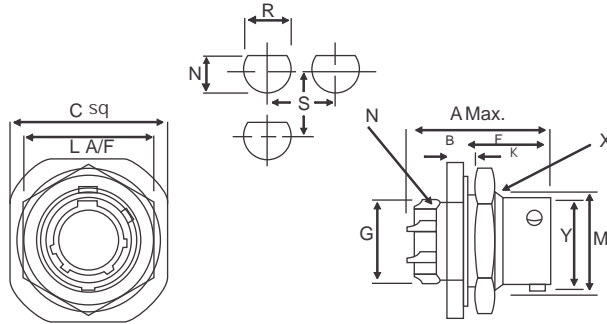
| Shell size | G Dia. | L     |
|------------|--------|-------|
| 8          | 18.11  | 34.14 |
| 10         | 21.29  | 34.14 |
| 12         | 24.46  | 34.14 |
| 14         | 27.63  | 34.14 |
| 16         | 30.81  | 34.14 |
| 18         | 33.98  | 34.14 |
| 20         | 37.16  | 40.03 |
| 22         | 40.33  | 40.03 |
| 24         | 43.51  | 40.87 |

| Shell size | N     | R Dia. | S     |
|------------|-------|--------|-------|
| 8          | 13.72 | 14.53  | 31.75 |
| 10         | 16.89 | 17.70  | 34.52 |
| 12         | 21.03 | 22.48  | 38.89 |
| 14         | 24.18 | 25.65  | 42.06 |
| 16         | 27.33 | 28.83  | 45.24 |
| 18         | 30.50 | 32.00  | 48.03 |
| 20         | 33.68 | 35.18  | 51.59 |
| 22         | 36.86 | 38.35  | 54.76 |
| 24         | 40.03 | 41.45  | 57.84 |

## Jam Nut Receptacles



**62 IN - 57T**  
Single hole mounting with threaded shell to accept accessories

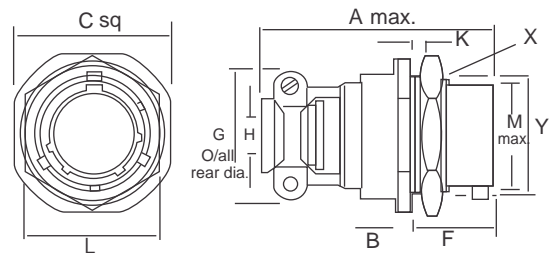


All dimensions in mm

| Shell Size | A max          | B $\pm 0.05$ ( $\pm 0.13$ ) | C max sq.      | F $\pm 0.005$ ( $\pm 0.13$ ) | G Dia. Max.    | K min Max     |               | L              | M $-0.005$ ( $-0.13$ ) | N             | Y              | X Thread      |
|------------|----------------|-----------------------------|----------------|------------------------------|----------------|---------------|---------------|----------------|------------------------|---------------|----------------|---------------|
| 08         | 0.978<br>24.84 | 0.117<br>2.97               | 0.942<br>23.93 | 0.595<br>15.12               | 0.426<br>10.82 | 0.062<br>1.58 | 0.125<br>3.58 | 0.750<br>19.05 | 0.527<br>13.3          | 7/16 - UNEF   | 0.473<br>12.03 | 9/16-24 NEF   |
| 10         | 0.978<br>24.84 | 0.117<br>2.97               | 1.067<br>27.10 | 0.595<br>15.12               | 0.552<br>14.02 | 0.062<br>1.58 | 0.125<br>3.18 | 0.875<br>22.23 | 0.652<br>16.56         | 9/16 - UNEF   | 0.590<br>14.99 | 11/16-24 NEF  |
| 12         | 0.978<br>24.84 | 0.117<br>2.97               | 1.255<br>31.88 | 0.595<br>15.12               | 0.677<br>17.20 | 0.062<br>1.58 | 0.125<br>3.18 | 1.062<br>26.98 | 0.825<br>20.70         | 11/16 - UNEF  | 0.750<br>19.05 | 7/8-20 UNEF   |
| 12         | 0.978<br>24.84 | 0.117<br>2.97               | 1.380<br>35.05 | 0.595<br>15.12               | 0.802<br>20.37 | 0.062<br>1.58 | 0.125<br>3.18 | 1.187<br>30.15 | 0.939<br>23.85         | 13/16 - UNEF  | 0.875<br>22.23 | 1-20 UNEF     |
| 16         | 0.978<br>24.84 | 0.117<br>2.97               | 1.505<br>38.23 | 0.595<br>15.12               | 0.927<br>23.55 | 0.062<br>1.58 | 0.125<br>3.18 | 1.312<br>33.32 | 1.063<br>27.00         |               | 1.000<br>25.40 | 1.1/18-18 NEF |
| 18         | 0.978<br>24.84 | 0.117<br>2.97               | 1.630<br>41.40 | 1.595<br>15.12               | 1.052<br>26.72 | 0.062<br>1.58 | 0.125<br>3.18 | 1.437<br>36.50 | 1.188<br>30.18         | 15/16 - UNEF  | 1.125<br>28.58 | 1.1/4-18 NEF  |
| 20         | 1.048<br>26.62 | 0.148<br>3.76               | 1.817<br>46.15 | 0.720<br>18.29               | 1.167<br>29.65 | 0.062<br>1.58 | 0.250<br>6.35 | 1.562<br>38.68 | 1.313<br>33.35         | 1.3/16 - UNEF | 1.250<br>31.75 | 1.3/8-18 NEF  |
| 22         | 1.048<br>26.62 | 0.148<br>3.76               | 1.942<br>49.33 | 0.720<br>18.29               | 1.292<br>32.82 | 0.062<br>1.58 | 0.250<br>6.35 | 1.687<br>42.85 | 1.438<br>36.53         | 1.5/16 - UNEF | 1.375<br>34.93 | 1.1/2-18 NEF  |
| 24         | 1.048<br>26.62 | 0.148<br>3.76               | 2.067<br>52.50 | 0.753<br>19.13               | 1.416<br>35.97 | 0.062<br>1.58 | 0.250<br>6.35 | 1.812<br>46.05 | 1.563<br>39.70         | 1.7/16 - UNEF | 1.500<br>38.10 | 1.5/8-18 NEF  |

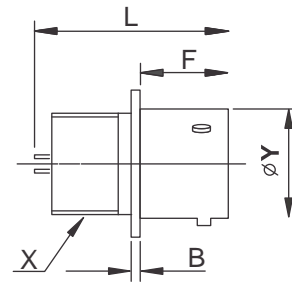
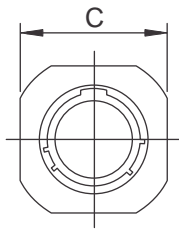
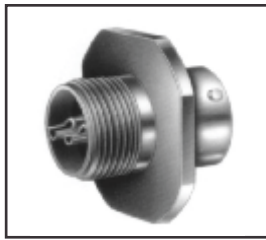


**62 IN - 14F**  
Single hole mounting with grommet and grommet nut fitted with integral strain relief clamp has panel 'O' ring seal



| Shell<br>Size | A<br>max       | B<br>+0.05<br>(+0.13) | C<br>max<br>sq. | F<br>±0.005<br>(±0.13) | G<br>dia<br>max | H<br>±0.005<br>(±0.13) | K<br>min      |                | L              | M<br>-0.005<br>(-0.13) | N<br>+0.005<br>(+0.13) | R<br>+0.005<br>(+0.13) | S              | Y              | X<br><br>Thread |
|---------------|----------------|-----------------------|-----------------|------------------------|-----------------|------------------------|---------------|----------------|----------------|------------------------|------------------------|------------------------|----------------|----------------|-----------------|
| 08            | 1.762<br>44.75 | 0.117<br>2.97         | 0.942<br>23.93  | 0.706<br>17.93         | 0.828<br>21.03  | 0.156<br>3.96          | 0.062<br>1.58 | 0.750<br>19.50 | 0.125<br>3.175 | 0.527<br>13.3          | 0.540<br>13.72         | 0.572<br>14.53         | 1.250<br>31.75 | 0.473<br>12.03 | 9/16-24 NEF     |
| 10            | 1.762<br>44.75 | 0.117<br>2.97         | 0.067<br>27.10  | 0.706<br>17.93         | 0.891<br>22.63  | 0.188<br>4.78          | 0.062<br>1.58 | 0.125<br>3.18  | 0.875<br>22.23 | 0.652<br>16.56         | 0.665<br>16.89         | 0.697<br>17.70         | 1.359<br>34.52 | 0.590<br>14.99 | 11/16-124 NEF   |
| 12            | 1.762<br>44.75 | 0.117<br>2.97         | 1.255<br>31.88  | 0.706<br>17.93         | 1.016<br>25.81  | 0.312<br>7.93          | 0.062<br>1.58 | 0.125<br>3.18  | 1.062<br>26.98 | 0.815<br>20.70         | 0.828<br>21.03         | 0.885<br>22.48         | 1.531<br>38.89 | 0.750<br>19.05 | 7/8-20 UNEF     |
| 14            | 1.876<br>47.65 | 0.117<br>2.97         | 1.380<br>35.05  | 0.706<br>17.93         | 1.141<br>28.97  | 0.375<br>9.35          | 0.062<br>1.58 | 0.125<br>3.18  | 1.187<br>30.15 | 0.939<br>23.85         | 0.952<br>24.18         | 1.010<br>25.65         | 1.656<br>42.06 | 0.875<br>22.23 | 1-20 UNEF       |
| 16            | 1.876<br>47.65 | 0.117<br>2.97         | 1.505<br>38.23  | 0.706<br>17.93         | 1.203<br>30.56  | 0.500<br>12.7          | 0.062<br>1.58 | 0.125<br>3.18  | 1.312<br>33.32 | 1.063<br>27.00         | 1.076<br>27.33         | 1.135<br>28.83         | 1.781<br>45.24 | 1.000<br>25.40 | 1.1/8-18 NEF    |
| 18            | 1.876<br>47.65 | 0.117<br>2.97         | 1.630<br>41.40  | 0.706<br>17.93         | 1.426<br>36.22  | 0.625<br>15.88         | 0.062<br>1.58 | 0.125<br>3.175 | 1.437<br>36.50 | 1.188<br>30.18         | 1.201<br>30.50         | 1.260<br>32.00         | 1.891<br>48.03 | 1.125<br>28.58 | 1.1/4-18 NEF    |
| 20            | 2.118<br>53.8  | 0.148<br>3.76         | 1.817<br>46.15  | 0.894<br>22.71         | 1.426<br>36.22  | 0.625<br>15.88         | 0.062<br>1.58 | 0.250<br>6.35  | 1.562<br>38.68 | 1.313<br>33.35         | 1.326<br>33.68         | 1.385<br>35.18         | 2.031<br>51.59 | 1.250<br>31.75 | 1.3/8-18 NEF    |
| 22            | 2.118<br>53.8  | 0.148<br>3.76         | 1.942<br>49.33  | 0.894<br>22.71         | 1.567<br>39.80  | 0.750<br>19.05         | 0.062<br>1.58 | 0.250<br>6.35  | 1.687<br>42.85 | 1.438<br>36.53         | 1.451<br>36.86         | 1.510<br>38.35         | 2.156<br>54.76 | 1.375<br>34.93 | 1.1/2-18 NEF    |
| 24            | 2.250<br>57.15 | 0.148<br>3.76         | 2.067<br>52.50  | 0.927<br>23.55         | 1.735<br>44.07  | 0.800<br>20.32         | 0.062<br>1.58 | 0.250<br>6.35  | 1.812<br>46.05 | 1.563<br>39.70         | 1.576<br>40.03         | 1.635<br>41.45         | 2.277<br>57.84 | 1.500<br>38.10 | 1.5/8-18 NEF    |

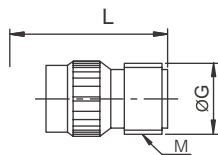
## Cable Mounting Receptacles



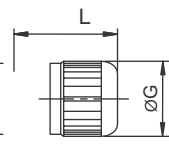
### Without termination assemblies

All dimensions in mm

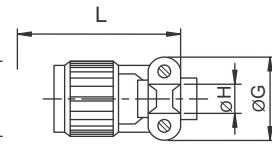
| Shell size | B    | C     | F     | L     | Y<br>Dia | X<br>thread<br>in inches |
|------------|------|-------|-------|-------|----------|--------------------------|
| 8          | 2.39 | 20.75 | 10.54 | 24.84 | 12.03    | 7/16-28 UNEF             |
| 10         | 2.39 | 23.93 | 10.54 | 24.84 | 14.99    | 9/16-24 NEF              |
| 12         | 2.39 | 26.32 | 10.54 | 24.84 | 19.05    | 11/16-24 NEF             |
| 14         | 2.39 | 28.70 | 10.54 | 24.84 | 22.23    | 13/16-20 UNEF            |
| 16         | 2.39 | 31.07 | 10.54 | 24.84 | 25.40    | 15/16-20 UNEF            |
| 18         | 2.39 | 33.45 | 10.54 | 24.84 | 28.58    | 1 1/16-18 NEF            |
| 20         | 2.59 | 36.63 | 13.59 | 26.62 | 31.75    | 1 3/16-18 NEF            |
| 22         | 2.59 | 39.80 | 13.59 | 26.62 | 34.93    | 1 5/16-18 NEF            |
| 24         | 2.59 | 42.98 | 14.53 | 26.62 | 38.10    | 1 7/16-18 NEF            |



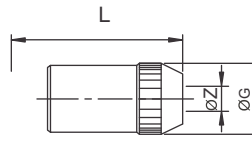
Style 11A



Style 11E



Style 11F



Style 11J

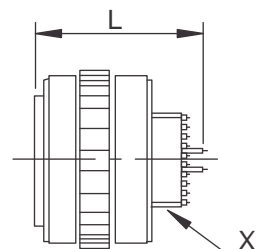
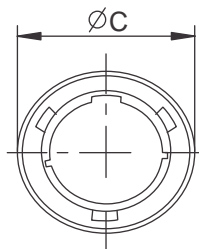


11PHM/EGM

### With termination assemblies

All dimensions in mm

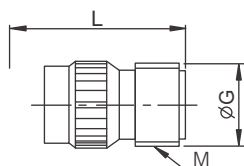
| Shell size | Style 11A |       |                          | Style 11E |       | Style 11F |          |       | Style 11J |       |                         |       |
|------------|-----------|-------|--------------------------|-----------|-------|-----------|----------|-------|-----------|-------|-------------------------|-------|
|            | G<br>Dia  | L     | M<br>thread<br>in inches | G<br>Dia  | L     | G<br>Dia  | H<br>Dia | L     | G<br>Dia  | L     | For cable size<br>Z Dia |       |
| 8          | 14.25     | 41.25 | 1/2-28 UNEF              | 14.25     | 32.54 | 21.03     | 3.96     | 44.76 | 14.25     | 46.89 | 4.28                    | 5.84  |
| 10         | 17.43     | 41.25 | 5/8-24 NEF               | 17.43     | 32.54 | 22.63     | 4.78     | 44.76 | 17.43     | 46.89 | 5.21                    | 7.93  |
| 12         | 20.60     | 41.25 | 3/4-20 UNEF              | 20.60     | 32.54 | 25.81     | 7.93     | 44.76 | 20.60     | 49.45 | 8.59                    | 11.23 |
| 14         | 23.78     | 41.25 | 7/8-20 UNEF              | 23.78     | 32.54 | 28.97     | 9.53     | 44.10 | 23.78     | 54.54 | 10.57                   | 13.69 |
| 16         | 26.95     | 41.25 | 1-20 UNEF                | 26.95     | 32.54 | 30.56     | 12.70    | 47.65 | 26.95     | 59.61 | 13.97                   | 15.65 |
| 18         | 30.13     | 41.25 | 1 3/16-18 NEF            | 30.13     | 32.54 | 36.22     | 15.88    | 47.65 | 30.13     | 64.70 | 15.24                   | 17.07 |
| 20         | 33.30     | 42.85 | 1 3/16-18 NEF            | 33.30     | 35.13 | 36.22     | 15.88    | 53.80 | 33.30     | 71.91 | 16.13                   | 18.98 |
| 22         | 36.75     | 42.85 | 1 7/16-18 NEF            | 36.75     | 35.13 | 39.80     | 19.05    | 53.80 | 36.75     | 76.99 | 17.02                   | 21.49 |
| 24         | 39.65     | 43.95 | 1 7/16-18 NEF            | 39.65     | 35.13 | 44.07     | 20.32    | 57.15 | 39.65     | 78.03 | 18.80                   | 22.71 |



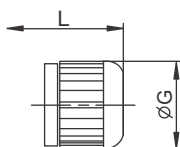
### Without termination assemblies

All dimensions in mm

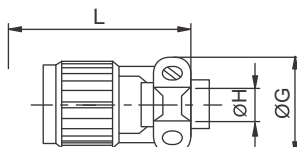
| Shell size | C Dia | L     | X in inches   |
|------------|-------|-------|---------------|
| 8          | 19.05 | 24.79 | 7/16-28 UNEF  |
| 10         | 21.82 | 24.79 | 9/16-24NEF    |
| 12         | 26.19 | 24.79 | 11/16-24 NEF  |
| 14         | 29.36 | 24.79 | 13/16-20 UNEF |
| 16         | 32.54 | 24.79 | 15/16-20 UNEF |
| 18         | 35.33 | 24.79 | 11/16-18 NEF  |
| 20         | 38.89 | 26.79 | 1 3/16-18 NEF |
| 22         | 42.06 | 26.79 | 1 5/16-18 NEF |
| 24         | 45.14 | 26.79 | 1 7/16-18 NEF |



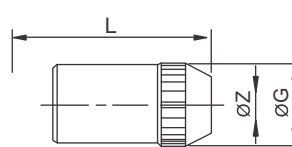
Style 16A



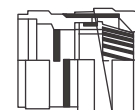
Style 16E



Style 16F



Style 16J



16PHM/EGM

### With termination assemblies

| Shell size | Style 16 A |       |                    | Style 16 E |       | Style 16 F |       |       | Style 16 J |       |                      |       |
|------------|------------|-------|--------------------|------------|-------|------------|-------|-------|------------|-------|----------------------|-------|
|            | G Dia      | L     | M Thread In Inches | G Dia      | L     | G Dia      | H Dia | L     | G Dia      | L     | For cable size Z Dia |       |
|            |            |       |                    |            |       |            |       |       |            |       | min                  | max   |
| 8          | 14.25      | 41.00 | 1/2-28 UNEF        | 14.25      | 32.54 | 21.03      | 3.96  | 44.50 | 14.25      | 46.64 | 4.28                 | 5.84  |
| 10         | 17.43      | 41.00 | 5/8-24 NEF         | 17.43      | 32.54 | 22.63      | 4.78  | 44.50 | 17.43      | 46.64 | 5.21                 | 7.93  |
| 12         | 20.60      | 41.00 | 3/4-20 UNEF        | 20.60      | 32.54 | 25.81      | 7.93  | 44.50 | 20.60      | 49.20 | 8.59                 | 11.23 |
| 14         | 23.78      | 41.00 | 7/8-20 UNEF        | 23.78      | 32.54 | 28.97      | 9.53  | 43.84 | 23.78      | 54.28 | 10.57                | 13.69 |
| 16         | 26.95      | 41.00 | 1-20 UNEF          | 26.95      | 32.54 | 30.56      | 12.70 | 47.40 | 26.95      | 59.36 | 13.97                | 15.65 |
| 18         | 30.13      | 41.00 | 1 3/16-18 NEF      | 30.13      | 32.54 | 36.22      | 15.88 | 47.40 | 30.13      | 64.45 | 15.24                | 17.07 |
| 20         | 33.30      | 41.00 | 1 3/16-18 NEF      | 33.30      | 32.54 | 36.22      | 15.88 | 51.81 | 33.30      | 70.05 | 16.13                | 18.98 |
| 22         | 36.75      | 41.00 | 1 7/16-18 NEF      | 36.75      | 32.54 | 39.80      | 19.05 | 51.81 | 36.75      | 75.13 | 17.02                | 21.49 |
| 24         | 39.61      | 42.11 | 1 7/16-18 NEF      | 39.61      | 32.54 | 44.07      | 20.32 | 55.32 | 39.61      | 76.25 | 18.80                | 22.71 |

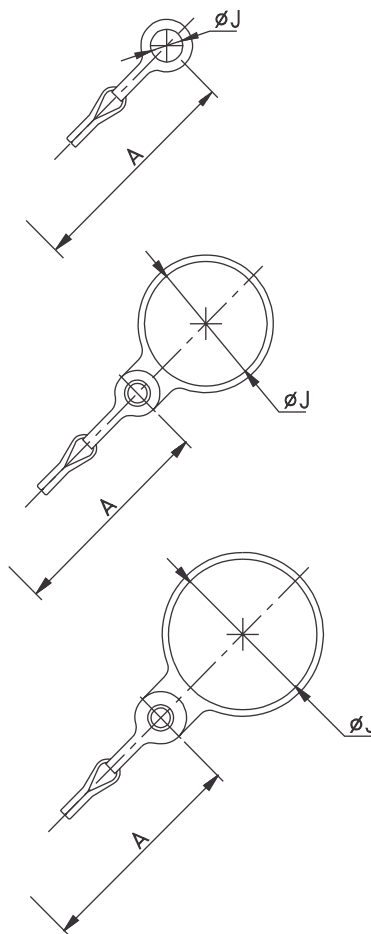
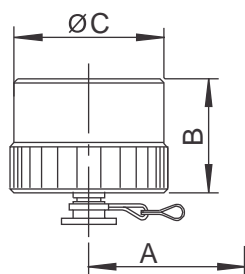
Notes: 1. Plugs are also available with heavy duty ribbed coupling ring, to order, add deviation (044) at the end of plug part number.

## Metallic Dust Covers

Standard is olive drab chromate finish over cadmium plating with straight knurling. To order add suffix **-XX** to required style, where XX specifies shell size. It is strongly recommended that these are fitted to provide protection when connectors are not in use. For alternate finishes or dust covers with heavy duty ribs, contact factory for further details and part number. Dust cap with Nylon cord is also available. Contact factory for further details.

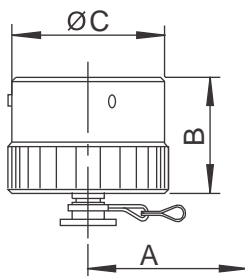
### For receptacles

| Dust cover style |                 | To fit receptacle style |
|------------------|-----------------|-------------------------|
| with chain       | with nylon cord |                         |
| 62IN-736         | 62IN-813        | Jam nut                 |
| 62IN-737         | 62IN-814        | Cable mounting          |
| 62IN-738         | 62IN-812        | Wall and box mounting   |



### For plugs

| Dust cover style |                 |
|------------------|-----------------|
| with chain       | with nylon cord |
| 62IN-742         | 62IN-810        |



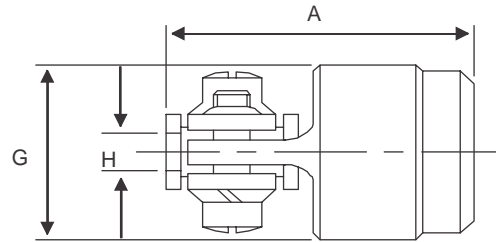
All dimensions in mm

| Shell size | A<br>chain / cord<br>length | B                  |              | C<br>Dia | J Dia      |            |                          |
|------------|-----------------------------|--------------------|--------------|----------|------------|------------|--------------------------|
|            |                             | for<br>receptacles | for<br>plugs |          | 736<br>813 | 737<br>814 | 738<br>812<br>742<br>810 |
| 8          | 76.20                       | 15.21              | 15.03        | 18.64    | 14.68      | 11.63      | 4.40                     |
| 10         | 76.20                       | 15.21              | 15.03        | 21.82    | 17.86      | 14.81      | 4.40                     |
| 12         | 88.90                       | 15.21              | 15.03        | 25.40    | 22.63      | 17.98      | 4.40                     |
| 14         | 88.90                       | 15.21              | 15.03        | 28.57    | 25.81      | 22.76      | 4.40                     |
| 16         | 88.90                       | 15.21              | 15.03        | 31.75    | 29.39      | 25.93      | 4.40                     |
| 18         | 88.90                       | 15.21              | 15.03        | 34.92    | 32.16      | 29.11      | 4.40                     |
| 20         | 101.60                      | 15.21              | 15.03        | 38.10    | 35.33      | 32.28      | 4.40                     |
| 22         | 101.60                      | 15.21              | 15.03        | 41.27    | 38.51      | 35.46      | 4.40                     |
| 24         | 101.60                      | 15.21              | 15.03        | 44.45    | 41.68      | 38.63      | 4.40                     |

## Strain Relief Clamp With Grommet

(Replace XX-XX with the required insert arrangement)

62IN-585-XX-XXS or XXP



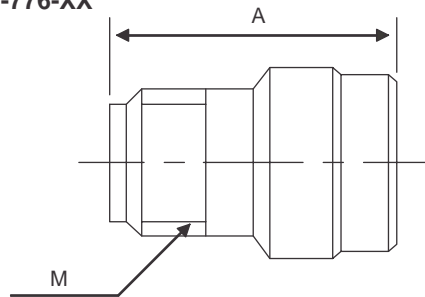
All dimensions in mm

| Shell size | A<br>max | G<br>max | H<br>max |
|------------|----------|----------|----------|
| 8          | 25.17    | 21.03    | 4.09     |
| 10         | 25.17    | 22.63    | 4.90     |
| 12         | 25.17    | 25.81    | 8.05     |
| 14         | 24.51    | 28.98    | 9.65     |
| 16         | 28.07    | 30.56    | 12.83    |
| 18         | 28.07    | 36.22    | 16.00    |
| 20         | 32.64    | 36.22    | 16.00    |
| 22         | 32.64    | 39.80    | 19.18    |
| 24         | 34.88    | 44.07    | 20.45    |

## Shell To Accept Conduit

(Replace XX with the required shell size)

62IN-776-XX

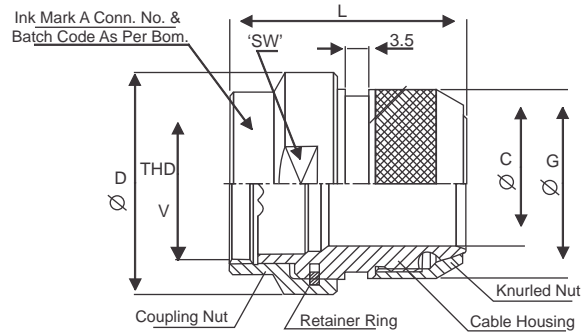


All dimensions in mm

| Shell size | A<br>max | M<br>Thread in inches |
|------------|----------|-----------------------|
| 8          | 23.80    | 1/2-28 UNEF           |
| 10         | 23.80    | 5/8-24 NEF            |
| 12         | 23.80    | 3/4-20 UNEF           |
| 14         | 23.80    | 7/8-20 UNEF           |
| 16         | 23.80    | 1-20 UNEF             |
| 18         | 23.80    | 1 3/16-18 NEF         |
| 20         | 23.80    | 1 3/16-18 NEF         |
| 22         | 23.80    | 1 7/16-18 NEF         |
| 24         | 23.80    | 1 7/16-18 NEF         |

## 62IN - SQ Adaptors

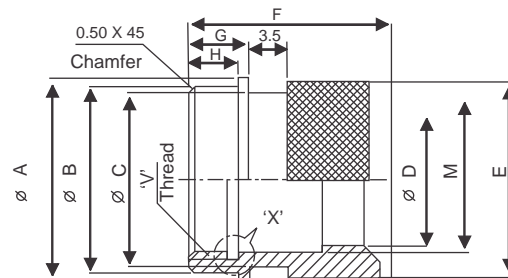
For Shielded Cables



| SIZE | ATX P/NO.  | 'V' THD.<br>UNEF-2B | Ø C<br>MIN. | Ø D<br>MAX. | Ø G<br>+0.5<br>-0.0 | L<br>MAX. | SW<br>-0.2 | RECOMME<br>NDED<br>TORQUE'S<br>(Nm) |
|------|------------|---------------------|-------------|-------------|---------------------|-----------|------------|-------------------------------------|
| 08   | 62IN-08-SQ | 7/16 -28            | 6.6         | 20          | 16                  | 36        | 18         | 4 +0.50                             |
| 10   | 62IN-10-SQ | 9/16 -24            | 9.2         | 23          | 18                  | 36        | 21         | 6 +0.50                             |
| 12   | 62IN-12-SQ | 11/16 -24           | 12.2        | 27          | 22                  | 36        | 24         | 8+1.0                               |
| 14   | 62IN-14-SQ | 13/16 -20           | 15.2        | 30          | 25                  | 37        | 28         | 10+1.0                              |
| 16   | 62IN-16-SQ | 15/16 -20           | 18.3        | 33          | 28                  |           | 31         |                                     |
| 18   | 62IN-18-SQ | 1 1/16 -18          | 20.0        | 36          | 32                  |           | 34         | 13+1.0                              |
| 20   | 62IN-20-SQ | 1 3/16 -18          | 23.0        | 40          | 34                  |           | 37         |                                     |
| 22   | 62IN-22-SQ | 1 5/16 -18          | 26.0        | 43          | 38                  |           | 41         |                                     |
| 24   | 62IN-24-SQ | 1 7/16 -18          | 28.8        | 46          | 41                  | 37        | 44         |                                     |

## 62IN - Shrink Boot Adaptors

For Unshielded Cables



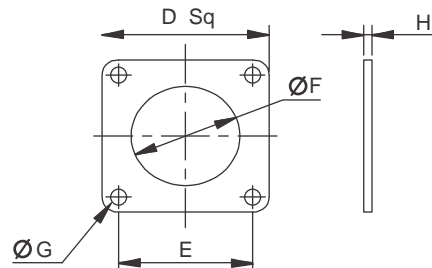
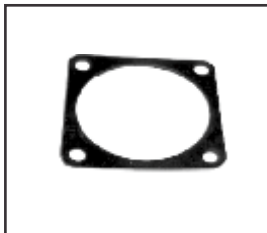
| SIZE | ATX P/NO    | Ø 'A'<br>-0.3 | Ø 'B' | Ø 'C'<br>-0.2 | Ø 'D'<br>+0.2 | Ø 'E'<br>+0.5 | 'F'  | 'G'  | 'H'  | 'V' THREAD.<br>UNEF -2B | 'M'<br>+0.1 |
|------|-------------|---------------|-------|---------------|---------------|---------------|------|------|------|-------------------------|-------------|
| 08   | 62IN-108559 | 15.4          | 14.0  | 13.1          | 9.2           | 15.1          | 17.5 | 5.50 | 4.50 | 7/16 -28                | 10.2        |
| 10   | 62IN-108560 | 18.6          | 17.0  | 15.9          | 12.1          | 17.9          |      |      |      | 9/16 -24                | 13.3        |
| 12   | 62IN-108561 | 21.8          | 20.3  | 21.2          | 15.1          | 23.2          |      |      |      | 11/16 -24               | 16.5        |
| 14   | 62IN-108562 | 25.0          | 23.3  | 22.1          | 18.4          | 24.0          |      |      |      | 13/16 -20               | 19.5        |
| 16   | 62IN-108563 | 28.2          | 26.4  | 26.0          | 21.6          | 29.3          |      |      |      | 15/16 -20               | 22.6        |
| 18   | 62IN-108564 | 31.3          | 29.5  | 28.4          | 24.1          | 31.5          |      |      |      | 1 1/16 -18              | 25.6        |
| 20   | 62IN-108565 | 34.5          | 32.7  | 32.3          | 27.3          | 35.6          |      |      |      | 1 3/16 -18              | 28.8        |
| 22   | 62IN-108566 | 37.7          | 35.8  | 34.7          | 30.5          | 38.0          | 21.3 | 5.00 | 4.00 | 1 5/16 -18              | 32.0        |
| 24   | 62IN-108567 | 40.9          | 39.0  | 37.9          | 33.7          | 41.0          | 20.0 |      |      | 1 7/16 -18              | 35.2        |



## Flange Mounting Gasket

### 62IN-760-XX

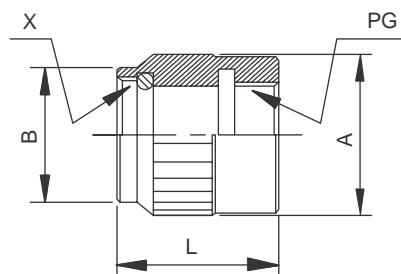
(Replace XX with the required shell size)



All dimensions in mm

| Shell size | D     | E     | F Dia | G Dia | H max |
|------------|-------|-------|-------|-------|-------|
| 8          | 20.62 | 15.08 | 12.90 | 3.30  | 1.06  |
| 10         | 23.82 | 18.26 | 16.07 | 3.30  | 1.06  |
| 12         | 26.18 | 20.65 | 19.25 | 3.30  | 1.06  |
| 14         | 28.57 | 23.01 | 22.42 | 3.30  | 1.06  |
| 16         | 30.96 | 24.61 | 25.60 | 3.30  | 1.06  |
| 18         | 33.32 | 27.00 | 28.77 | 3.30  | 1.06  |
| 20         | 36.52 | 29.36 | 31.95 | 3.30  | 1.06  |
| 22         | 39.70 | 31.75 | 35.13 | 3.30  | 1.06  |
| 24         | 42.87 | 34.92 | 38.30 | 3.96  | 1.06  |

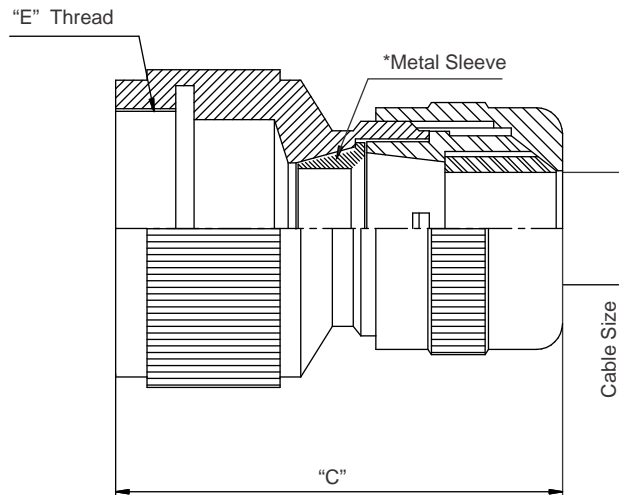
## PG Adaptors with 'O' ring



All dimensions in mm

| Part number   | For shell size | X Thread in inches | A     | B     | L     | PG Thread |
|---------------|----------------|--------------------|-------|-------|-------|-----------|
| 62IN08-PG7    | 8              | 7/16-28 UNEF       | 16.50 | 14.50 | 20.00 | PG7       |
| 62IN10-PG9    | 10             | 9/16-24 NEF        | 22.00 | 17.70 | 20.00 | PG9       |
| 62IN12-PG9    | 12             | 11/16-24 NEF       | 22.00 | 21.00 | 20.00 | PG9       |
| 62IN14-PG13.5 | 14             | 13/16-20UNEF       | 28.00 | 23.50 | 25.00 | PG13.5    |
| 62IN16-PG9    | 16             | 15/16-20 UNEF      | 29.00 | 27.80 | 30.00 | PG 9      |
| 62IN18-PG16   | 18             | 1/16-18 NEF        | 31.50 | 31.00 | 35.00 | PG16      |
| 62IN20-PG21   | 20             | 13/16-18 NEF       | 35.00 | 34.00 | 40.00 | Pg21      |
| 62IN24-PG16   | 24             | 17/16-18 NEF       | 41.50 | 40.50 | 40.00 | PG16      |

## EGM/PHM Adaptor

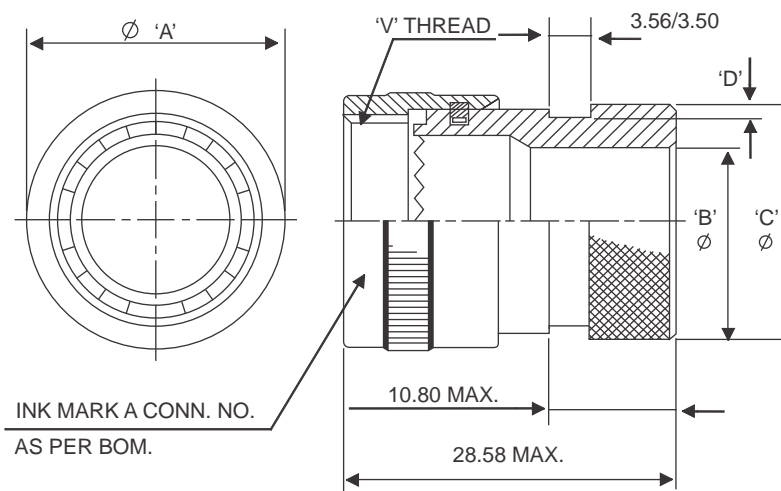


\*EGM - Supplied with metal sleeve for shielded cable  
 PHM - Supplied without metal sleeve for unshielded cable

| Shell size | "C" Ref. | PG Size<br>(Cable Size in mm) | "E" Thread<br>For Straight |
|------------|----------|-------------------------------|----------------------------|
| 8          | 30.00    | PG 11<br>(4 to 10)            | 7/16" -28 UNEF             |
| 10         |          | PG 11<br>(4 to 10)            | 9/16" -24 NEF              |
| 12         |          | PG 11<br>(4 to 10)            | 11/16" -24 NEF             |
| 14         |          | PG 21<br>(11 to 18)           | 13/16" -20 UNEF            |
| 16         |          | PG 21<br>(11 to 18)           | 15/16" -20 UNEF            |
| 18         |          | PG 21<br>(11 to 18)           | 1 1/16" -20 UNEF           |
| 20         | 35.00    | PG 21<br>(11 to 18)           | 1 3/16" -18 UNEF           |
| 22         |          | PG 21<br>(11 to 18)           | 1 5/16" -18 NEF            |
| 24         |          | PG 21<br>(11 to 18)           | 1 7/16" -18 UNEF           |

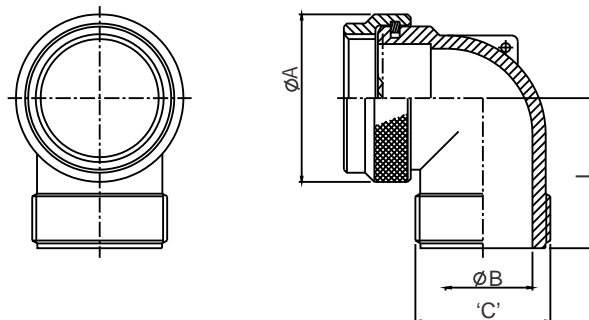
EGM/PHM11 Can accept cable Min 5.70 mm & Max 10.85 mm  
 EGM/PHM21 Can accept cable Min 12.70 mm & Max 17.85 mm

## Shrink Boot Adaptor



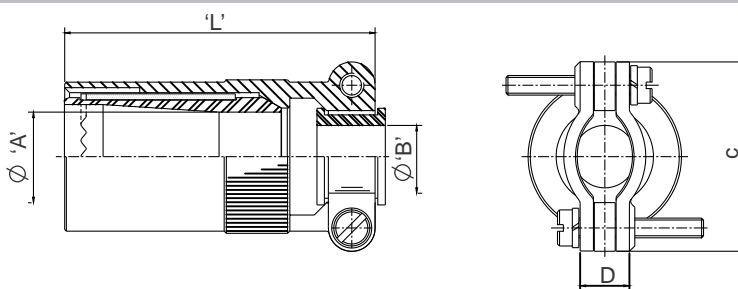
| SHELL SIZE | $\varnothing A$ MAX. | $\varnothing B$ MIN. | $\varnothing C$ + 0.0 - 0.51 | D + 0.20 - 0.0 | 'V' THREAD UNEF-2B | CONNECTORS P/NO.      |
|------------|----------------------|----------------------|------------------------------|----------------|--------------------|-----------------------|
| 08         | 15.67                | 6.35                 | 13.54                        | 1.12           | 7 / 16" -28        | M85049 / 60-1-W-8-IN  |
| 10         | 18.64                | 9.02                 | 15.37                        |                | 9 / 16" -24        | M85049 / 60-1-W-10-IN |
| 12         | 21.79                | 12.47                | 19.66                        |                | 11 / 16" -24       | M85049 / 60-1-W-12-IN |
| 14         | 24.99                | 14.35                | 21.29                        |                | 13 / 16" -20       | M85049 / 60-1-W-14-IN |
| 16         | 28.24                | 17.53                | 24.46                        |                | 15 / 16" -20       | M85049 / 60-1-W-16-IN |
| 18         | 30.94                | 19.53                | 26.47                        |                | 1 1 / 16" -18      | M85049 / 60-1-W-18    |
| 20         | 34.16                | 22.71                | 30.91                        | 1.75           | 1 3 / 16" -18      | M85049 / 60-1-W-20    |
| 22         | 32.79                | 25.88                | 34.42                        |                | 1 5 / 16" -18      | M85049 / 60-1-W-22    |
| 24         | 40.46                | 28.80                | 36.65                        |                | 1 7 / 16" -18      | M85049 / 60-1-W-24    |

## Right Angle Backshell



| Shell Size | DRG. No.  | Ø A<br>MAX. | Ø B<br>±0.13 | 'C'<br>-2A THREAD. | L<br>MAX. |
|------------|-----------|-------------|--------------|--------------------|-----------|
| 8          | 500238-8  | 18.85       | 7.30         | 9/16"-24NEF        | 20.80     |
| 10         | 500238-10 | 21.70       | 10.18        | 5/8"-24UNEF        | 21.70     |
| 12         | 500238-12 | 24.60       | 13.35        | 3/4"-20UNEF        | 23.35     |
| 14         | 500238-14 | 27.85       | 16.26        | 7/8"-20UNEF        | 24.85     |
| 16         | 500238-16 | 31.2.       | 19.40        | 1"-20UNEF          | 26.45     |
| 18         | 500238-18 | 34.15       | 22.00        | 1 3/16"-18UNEF     | 28.70     |
| 20         | 500238-20 | 37.25       | 24.20        |                    | 29.60     |
| 22         | 500238-22 | 40.65       | 28.50        | 1 7/16"-18NEF      | 31.60     |
| 24         | 500238-24 | 44.00       | 31.65        |                    | 33.60     |

## JC Clamp Backshell



| Shell Size | A     |       | B<br>±0.13 | C<br>MAX. | D<br>MAX<br>Closed | 'L'<br>MAX. |
|------------|-------|-------|------------|-----------|--------------------|-------------|
|            | MIN.  | MAX.  |            |           |                    |             |
| 8          | 4.28  | 5.84  | 3.96       | 21.03     | 4.75               | 40.50       |
| 10         | 5.21  | 7.93  | 4.78       | 22.63     |                    |             |
| 12         | 8.59  | 11.23 | 7.93       | 25.81     | 7.14               |             |
| 14         | 10.57 | 13.69 | 9.58       | 28.97     | 8.26               | 48.00       |
| 16         | 13.97 | 15.65 | 12.70      | 30.56     | 9.04               | 54.50       |
| 18         | 15.24 | 17.07 | 15.88      | 36.22     | 11.58              | 59.00       |
| 20         | 16.13 | 18.98 | 15.88      | 36.22     | 13.18              | 67.00       |
| 22         | 17.02 | 21.49 | 19.05      | 39.80     |                    | 73.40       |
| 24         | 18.80 | 22.71 | 20.32      | 44.07     | 16.69              | 77.00       |

## Industrial Version Crimp Contacts

62IN series connectors are also available with rear release crimp contacts for industrial applications. These contacts can be crimped to wires outside the connector and then inserted into place with the help of designated tools. Connector maintenance is simplified because damaged contacts can be removed by using the designated removal tool and replaced with a new contact. Spare contacts are also available.

### Standard deviations for finishes & features

| Deviation number | Description   |
|------------------|---|
| (4)              | Gold flash on contacts  |
| (5)              | Crimp contact   |
| (044)            | Rough grip heavy duty coupling ring (for plugs only)                                |
| (218)            | Coupling ring with lever arrangement  |
| (219)            | Film wire termination (short) for flexible printed wiring (57A and 12E styles only) |
| (220)            | Film wire termination (long) for flexible printed wiring (57A and 12E styles only)  |
| (416)            | Electroless Nickel Plating  |
| *(608)           | Black anodised finish   |
| (622)            | Cadmium free zinc-cobalt Plating-olive drab finish                                  |
| (624)            | Cadmium free zinc-cobalt Plating-black finish                                       |
| (0PX)            | Premating contact (X denotes premating contact designation)                         |
| (714)            | Cadmium over electroless Nickel   |
| (720)            | Cadmium plating with black chromate   |
| (725)            | Zinc plating with olive drab finish   |
| (726)            | Electrophoretic Finish  |
| (56T)            | Plug connector with threaded shell & serration to accept the cable accessories      |
| (15A)            | Plug connector with threaded shell to accept the cable accessories                  |
| (LC)             | Less contact  |
| (N00)            | Connector without marking   |
| (N01)            | Connector with customer requested marking   |

C04:-Crimp connectors with few solder contact (Position need to mention)

### Specials

For special requirements, please contact factory with specifications and drawings. Amphenol has in-house capability to meet and custom build your special requirements for its range of MIL-C-26482 62IN series connectors.

\* Consult factory for availability.

### Recommended Tightening Torques

#### A) Single hole Fixing Receptacle ( Panel Nut tightening)

| Shell Size | 8    | 10   | 12   | 14   | 16   | 18   | 20    | 22   | 24    |
|------------|------|------|------|------|------|------|-------|------|-------|
| Nm         | 3.73 | 4.07 | 6.78 | 7.34 | 8.25 | 9.26 | 11.98 | 13.9 | 15.03 |
| Lbf.ins    | 33   | 36   | 60   | 65   | 73   | 82   | 106   | 123  | 133   |

#### B) Accessory Tightening

| Shell Size | 8         | 10        | 12        | 14        | 16        | 18        | 20        | 22         | 24         |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| Nm         | 3.79-3.96 | 3.96-4.52 | 4.52-5.09 | 5.09-5.65 | 5.65-6.78 | 6.78-7.91 | 8.48-9.04 | 9.61-10.17 | 10.74-11.3 |
| Lbf.ins    | 25-40     | 35-40     | 40-45     | 45-50     | 55-60     | 65-70     | 75-80     | 85-90      | 95-100     |

### Crimping Tool

| MILITARY P/N | DMC P/N | DESCRIPTION |
|--------------|---------|-------------|
| M22520/1-01  | Af8     | Tool Frame  |
| M22520/1-02  | TH1A    | Turret      |



### Insertion & Removal Tool



| Contact size | Insertion Removal Tool Part Number |
|--------------|------------------------------------|
| 20           | 62IN-IR-20                         |
| 16           | 62IN-IR-16                         |

To obtain a specific connector number, write down the connector number from the typical example below. Only inserts shown on page 5 can be specified. Connectors are delivered with protective dust caps. Deviations specified on page 15 must be included at the end of the connector number whenever required.

|             |          |          |          |   |           |           |          |          |  |
|-------------|----------|----------|----------|---|-----------|-----------|----------|----------|--|
| <b>62IN</b> | <b>5</b> | <b>7</b> | <b>E</b> | - | <b>18</b> | <b>32</b> | <b>P</b> | <b>X</b> |  |
|-------------|----------|----------|----------|---|-----------|-----------|----------|----------|--|

**Series designation**  
62IN - MIL -C-26482 series I miniature bayonet lock

**Key specification**  
1 - as per MIL-C-26482  
5 - as per BS 9522 F0017

**Shell style**

|   |   |  |
|---|---|--|
| 0 | - | Wall mounting receptacle                                       |
| 1 | - | Cable connecting receptacle                                    |
| 2 | - | Box mounting receptacle  |
| 4 | - | Jam nut receptacle, Internally threaded with Cable accessories |
| 5 | - | Plug without back accessories                                  |
| 6 | - | Plug   |
| 7 | - | Jam nut receptacle, plain Shell                                |
| 8 | - | Right Angle Back Shell with cable clamp (less grommet)         |

**Connector class**

|      |  |
|------|--|
| A-   | Plain shell, exposed solder Buckets, no grommet.   |
| E-   | Insert and grommet with Grommet nut (excluding 12E Which has plain shell and no Grommet or grommet nut). |
| F-   | Same as E, but grommet nut With strain relief clamp.   |
| J-   | Same as E, but with resilient Gland seal and nut for Unscreened jacketed cable, No grommet.              |
| T-   | Threaded shell for cable Accessories, exposed solder Buckets.  |
| TG-  | Same as T, but shell has Grounding fingers.  |
| PG-  | Plug with straight PG threaded Backshell   |
| PHM- | Supplied with different diameter sleeves to suit varying cable sizes. Used for unshielded cables         |
| EGM- | Supplied with different diameter sleeves to suit varying cable sizes. Used for shielded cables           |
| SQ-  | Used for shielded cables   |
| SB-  | Used for unshielded cables   |

**Deviations**  
See page 19

**Orientation**  
Inserts -  
W - X - Y - Z  
(Omit for normal)  
OR  
Key / Keyway -  
B - C - E - F  
See pages 3 and 4.

**Contact style**  
**P** - Pin contacts  
**S** - Socket contacts

**Insert arrangement**  
First box indicates shell size -  
8, 10, 12, 14, 16, 18, 20, 22, 24.  
Both boxes together indicate the exact insert arrangement.  
See page 5.

**Shell finish (Deviations)**  
Standard-Cadmium plating with olive drab chromate finish  
Alternate finishes  
1. Cadmium free zinc-cobalt plating with olive drab chromate finish  
  
Ref page No. 19 for codes  
For details contact factory

Notice: All information, including illustrations given herein is believed to be accurate at the time of printing. In lieu of design advances, Amphenol reserves the right to change specifications without notice. This publication AC6201 03/13 supersedes all existing Amphenol literature on 62IN series connectors.



# Amphenol

*A Global Company*



Pune Operations



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# Amphenol

**Interconnect India Pvt. Ltd.**

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