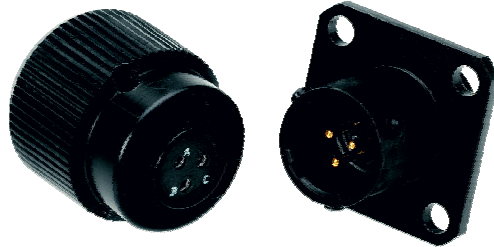


## 62IP / 162IP

### Industrial Plastic – IP Series Connectors



The Industrial Plastic (IP) range of miniature bayonet locking connectors, has both 62IP as solder non-removable contacts, and 162IP as crimp removable contacts. These are fully interchangeable with Amphenol Ltd 62 Series connectors and accessories.

The designs are based on BS 9522 F0017. The shells are moulded from Thermoplastic, as are the applicable panel nuts, coupling nuts and accessories. This gives a smooth, low lustre black finish that, once moulded, does not require any plating or further processes.

Insert material is neoprene rubber and the contacts are machined and gold plated, the same as the GB range of connectors for both 62 and 162.

**Other key benefits are:**

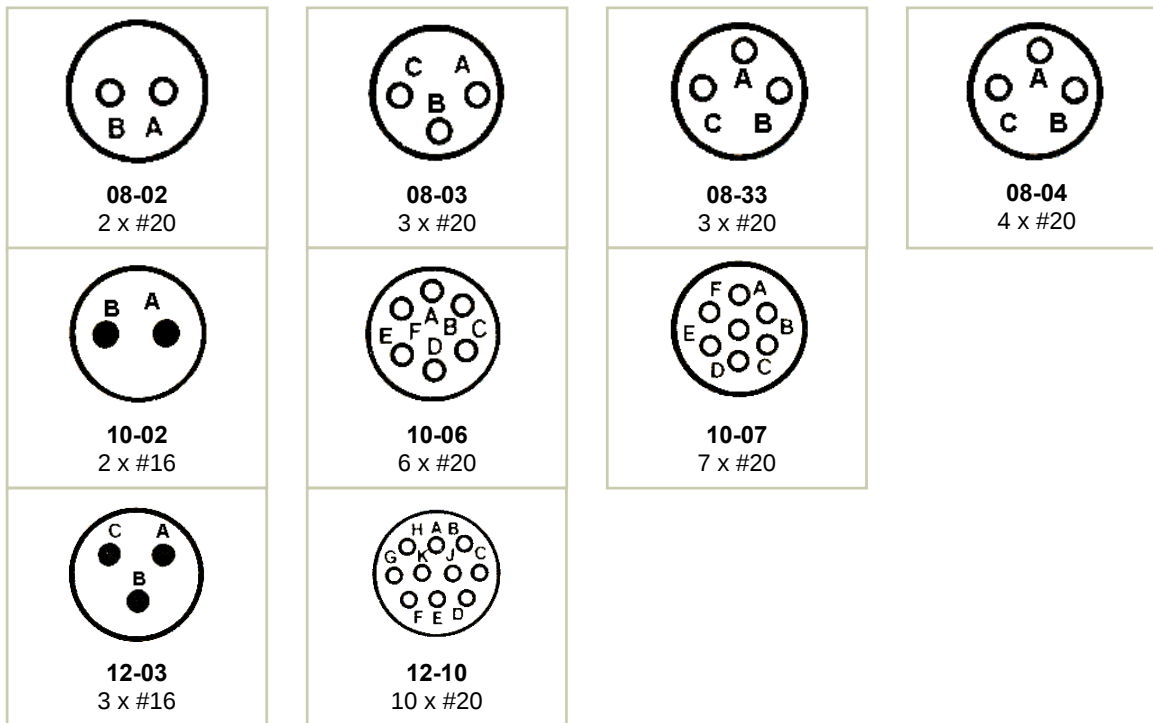
- Salt Spray 500 hours
- Rated to IP67
- 500 mating cycles minimum
- Contact resistance 5 milliohms maximum
- Insulation resistance 5000 Megohms @ 500VDC minimum
- Contact Rating:
  - 7.5A for Size 20 contacts
  - 13A for Size 16 contacts
- Temperature range –20°C to +70°C



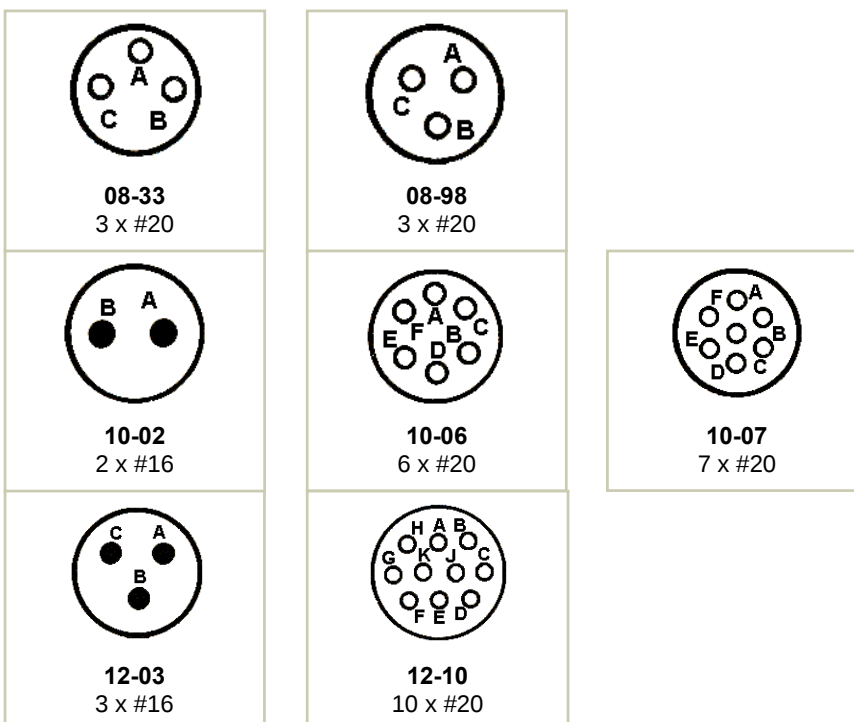
# 62IP / 162IP

## Available Inserts

### 62IP Available Inserts



### 162IP Available Inserts



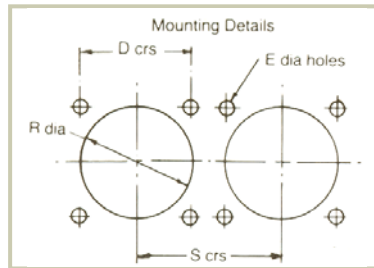
#### Contact Rating:

- 7.5A for Size 20 Contacts
- 13A for Size 16 Contacts

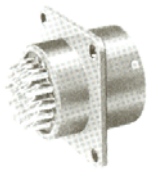


# 62IP Receptacles

## Solder Non-Removable Contacts

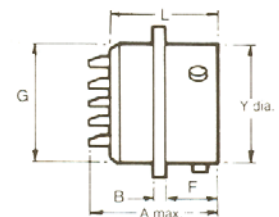
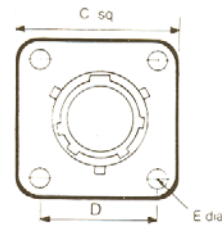


### 12E



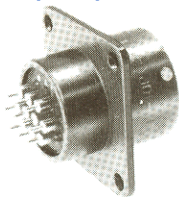
### 62IP-12E

4-Hole Flange Mounting with plain shell with solder buckets



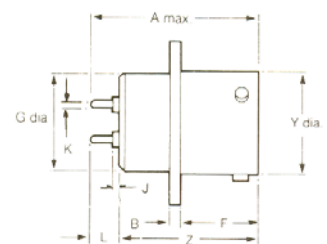
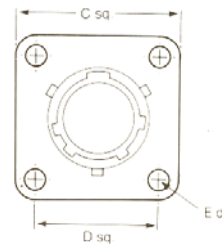
| Shell Size | A max | B<br>$\pm 0.005$<br>( $\pm 0.13$ ) | C max<br>Sq. | D TP<br>Sq. | E dia<br>$\pm 0.010$<br>( $\pm 0.254$ ) | F<br>$\pm 0.005$<br>( $\pm 0.13$ ) | G dia<br>max. | L     | S     | Y dia. max. |
|------------|-------|------------------------------------|--------------|-------------|-----------------------------------------|------------------------------------|---------------|-------|-------|-------------|
| 08         | 0.978 | 0.062                              | 0.817        | 0.594       | 0.120                                   | 0.445                              | 0.434         | 0.800 | 1.250 | 0.473       |
|            | 24.84 | 1.58                               | 20.75        | 15.09       | 3.05                                    | 11.3                               | 11.02         | 20.32 | 31.73 | 12.02       |
| 10         | 0.978 | 0.062                              | 0.942        | 0.719       | 0.120                                   | 0.445                              | 0.558         | 0.800 | 1.359 | 0.590       |
|            | 24.84 | 1.58                               | 23.93        | 18.26       | 3.05                                    | 11.3                               | 14.17         | 20.32 | 34.52 | 14.99       |
| 12         | 0.978 | 0.062                              | 1.036        | 0.812       | 0.120                                   | 0.445                              | 0.683         | 0.800 | 1.531 | 0.750       |
|            | 24.84 | 1.58                               | 26.32        | 20.63       | 3.05                                    | 11.3                               | 17.35         | 20.32 | 38.89 | 19.05       |

### 12E (219)



### 62IP-12E (219)

4-hole flange mounting with plain shell with film wire terminations



| Shell Size | A max | B<br>$\pm 0.005$<br>( $\pm 0.13$ ) | C max<br>Sq. | D TP<br>Sq. | E dia<br>$\pm 0.010$ | F<br>$\pm 0.005$<br>( $\pm 0.13$ ) | G dia<br>max. | J<br>$\pm 0.020$<br>( $\pm 0.51$ ) | K<br>min<br>max | L<br>max<br>max | Y dia.<br>max. | Z     |
|------------|-------|------------------------------------|--------------|-------------|----------------------|------------------------------------|---------------|------------------------------------|-----------------|-----------------|----------------|-------|
| 08         | 0.982 | 0.062                              | 0.817        | 0.594       | 0.120                | 0.445                              | 0.434         | 0.089                              | 0.030<br>0.028  | 0.198<br>0.166  | 0.473          | 0.800 |
|            | 24.95 | 1.58                               | 20.75        | 15.09       | 3.05                 | 11.3                               | 11.02         | 2.26                               | 0.76<br>0.70    | 5.03<br>4.22    | 12.02          | 20.32 |
| 10         | 0.982 | 0.062                              | 0.942        | 0.719       | 0.120                | 0.445                              | 0.558         | 0.089                              | 0.030<br>0.028  | 0.198<br>0.166  | 0.590          | 0.800 |
|            | 24.95 | 1.58                               | 23.93        | 18.26       | 3.05                 | 11.3                               | 14.17         | 2.26                               | 0.76<br>0.70    | 5.03<br>4.22    | 14.99          | 20.32 |
| 12         | 0.982 | 0.062                              | 1.036        | 0.812       | 0.120                | 0.445                              | 0.683         | 0.089                              | 0.030<br>0.028  | 0.198<br>0.166  | 0.750          | 0.800 |
|            | 24.95 | 1.58                               | 26.32        | 20.63       | 3.05                 | 11.3                               | 17.35         | 2.26                               | 0.76<br>0.70    | 5.03<br>4.22    | 19.05          | 20.32 |



# 62IP Receptacles

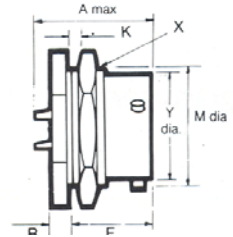
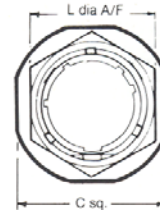
## Jam Nut

### 57A



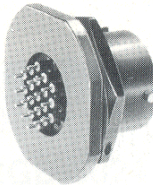
### 62IP-57A

Single hole mounting with plain shell for direct wiring to exposed solder buckets. Has panel 'O' ring seal



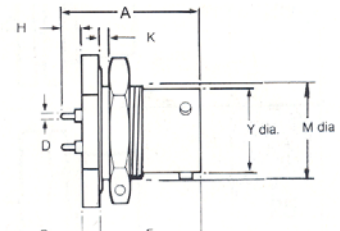
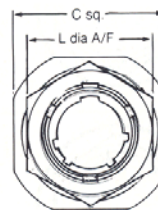
| Shell Size | A max | B<br>$\pm 0.005$<br>( $\pm 0.13$ ) | C Sq. | F<br>$\pm 0.005$<br>( $\pm 0.13$ ) | K     |       | L     | M<br>$-0.005$<br>( $-0.13$ ) | N<br>$\pm 0.005$<br>( $\pm 0.13$ ) | R<br>$\pm 0.005$<br>( $\pm 0.13$ ) | S min | Y     | X Thread     |
|------------|-------|------------------------------------|-------|------------------------------------|-------|-------|-------|------------------------------|------------------------------------|------------------------------------|-------|-------|--------------|
|            |       |                                    |       |                                    | min   | max   |       |                              |                                    |                                    |       |       |              |
| 08         | 0.978 | 0.117                              | 0.942 | 0.706                              | 0.062 | 0.125 | 0.750 | 0.527                        | 0.540                              | 0.572                              | 1.250 | 0.473 | 9/16-24 NEF  |
|            | 24.84 | 2.97                               | 23.93 | 17.93                              | 1.58  | 3.18  | 19.05 | 13.3                         | 13.72                              | 14.53                              | 31.75 | 12.03 |              |
| 10         | 0.978 | 0.117                              | 1.067 | 0.706                              | 0.062 | 0.125 | 0.875 | 0.652                        | 0.665                              | 0.697                              | 1.359 | 0.590 | 11/16-24 NEF |
|            | 24.84 | 2.97                               | 27.10 | 17.93                              | 1.58  | 3.18  | 22.23 | 16.56                        | 16.89                              | 17.70                              | 34.52 | 14.99 |              |
| 12         | 0.978 | 0.117                              | 1.255 | 0.706                              | 0.062 | 0.125 | 1.062 | 0.815                        | 0.828                              | 0.885                              | 1.531 | 0.750 | 7/8-20 UNEF  |
|            | 24.84 | 2.97                               | 31.88 | 17.93                              | 1.58  | 3.18  | 26.98 | 20.70                        | 21.03                              | 22.48                              | 38.89 | 19.05 |              |

### 57A (219)



### 62IP-57A(219)

Single hole mounting with plain shell and film wire terminations



| Shell Size | A<br>M | B<br>$\pm 0.005$<br>( $\pm 0.13$ ) | C Sq.<br>max | Max   | D<br>min | F<br>$\pm 0.005$<br>( $\pm 0.13$ ) | H     |       | K     |       | L     | M<br>$-0.005$<br>( $-0.13$ ) | N<br>$\pm 0.005$<br>( $\pm 0.13$ ) | R<br>$\pm 0.005$<br>( $\pm 0.13$ ) | S min | Y     | X Thread     |
|------------|--------|------------------------------------|--------------|-------|----------|------------------------------------|-------|-------|-------|-------|-------|------------------------------|------------------------------------|------------------------------------|-------|-------|--------------|
|            |        |                                    |              |       |          |                                    | max   | min   | min   | max   |       |                              |                                    |                                    |       |       |              |
| 08         | 0.976  | 0.117                              | 0.942        | 0.030 | 0.028    | 0.706                              | 0.173 | 0.133 | 0.062 | 0.125 | 0.750 | 0.527                        | 0.540                              | 0.572                              | 1.250 | 1.473 | 9/16-24 NEF  |
|            | 24.79  | 2.97                               | 23.93        | 0.76  | 0.71     | 17.93                              | 4.40  | 3.38  | 1.58  | 3.18  | 19.05 | 13.3                         | 13.72                              | 14.53                              | 31.75 | 12.03 |              |
| 10         | 0.976  | 0.117                              | 1.067        | 0.030 | 0.028    | 0.706                              | 0.173 | 0.133 | 0.062 | 0.125 | 0.875 | 0.652                        | 0.665                              | 0.697                              | 1.359 | 0.590 | 11/16-24 NEF |
|            | 24.79  | 2.97                               | 23.93        | 0.76  | 0.71     | 17.93                              | 4.40  | 3.35  | 1.58  | 3.18  | 22.23 | 16.56                        | 16.89                              | 17.70                              | 34.52 | 14.99 |              |
| 12         | 0.976  | 0.117                              | 1.255        | 0.030 | 0.028    | 0.706                              | 0.173 | 0.133 | 0.062 | 0.125 | 1.062 | 0.815                        | 0.828                              | 0.885                              | 1.531 | 0.750 | 7/8-20 UNEF  |
|            | 24.79  | 2.97                               | 31.88        | 0.76  | 0.71     | 17.93                              | 4.40  | 3.38  | 1.58  | 3.18  | 26.98 | 20.70                        | 21.03                              | 22.48                              | 38.89 | 19.05 |              |



## 62IP Plugs

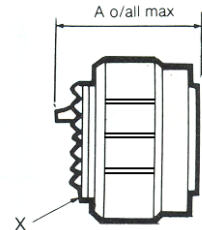
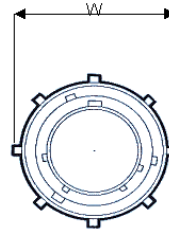
### Solder Bucket, Non-Removable Contacts

**56T**



**62IP-56T**

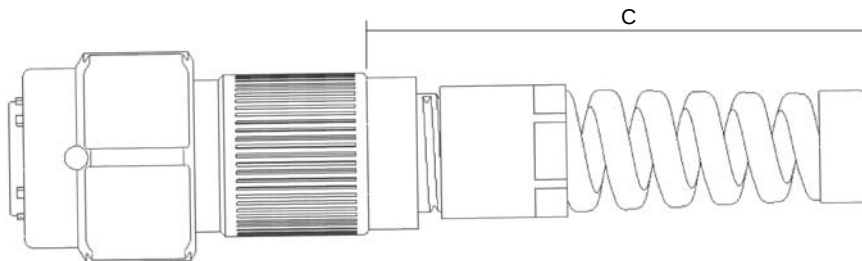
Basic Plug with Threaded Shell  
to accept Standard Cable  
Assemblies



| Shell Size | A max          | Overall dia. Max.<br>W (044) in mm | X Thread       |
|------------|----------------|------------------------------------|----------------|
| 08         | 0.976<br>24.79 | 0.870<br>22.1                      | 7/16 – 28 UNEF |
| 10         | 0.976<br>24.79 | 0.979<br>24.865                    | 9/16 – 24 NEF  |
| 12         | 0.976<br>24.79 | 1.151<br>29.235`                   | 11/16 – 24 NEF |

**16B**

**62IP-16B**

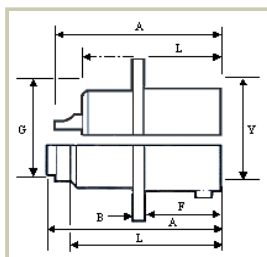


| Shell Size | C Length mm | Cable Entry  |
|------------|-------------|--------------|
| 08         | 64          | 3, 5-7 OD mm |
| 10         | 64          | 3, 5-7 OD mm |
| 12         | 64          | 7-13 OD mm   |

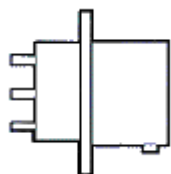


# 162IP Receptacles

## Crimp Removable Contacts

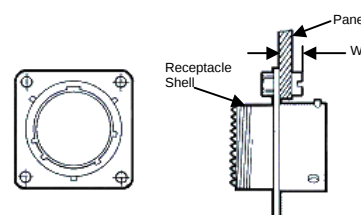


12E



162IP-12E

4-Hole Flange Mounting with  
plain shell with crimp removable  
contacts



| Shell Size | 'A' Overall Length Max |                       |                       |                       | 'L' Shell Lengths     |
|------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|            | 30T<br>in mm           | (162)<br>10E<br>in mm | (162)<br>10F<br>in mm | (162)<br>12E<br>in mm | (162)<br>12E<br>in mm |
| 08         | 1.286                  | 1.320                 | 1.759                 | 1.286                 | 0.917                 |
|            | 32.665                 | 33.53                 | 44.68                 | 32.665                | 23.29                 |
| 10         | 1.286                  | 1.320                 | 1.759                 | 1.286                 | 0.917                 |
|            | 32.665                 | 33.53                 | 44.68                 | 32.665                | 23.29                 |
| 12         | 1.286                  | 1.320                 | 1.759                 | 1.286                 | 0.917                 |
|            | 32.665                 | 33.53                 | 44.68                 | 32.665                | 23.29                 |

| Shell Size | Flange thickness<br>$\pm 0.005$<br>( $\pm 0.127$ ) | Flange dim.<br>max.<br>sq. | Flange hole<br>centres<br>TP | Flange holes<br>dia.<br>$\pm 0.005$<br>( $\pm 0.127$ )<br>$-0.002$<br>( $-0.051$ ) | Mtg.<br>Flange<br>location<br>$\pm 0.005$<br>( $\pm 0.127$ ) | Overall Rear<br>dia. max. |              |                   |              | Cable sleeve<br>int. dia.<br>$\pm 0.005$<br>( $\pm 0.127$ ) | Thread         | Shell ext.<br>dia. Max. |
|------------|----------------------------------------------------|----------------------------|------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------|--------------|-------------------|--------------|-------------------------------------------------------------|----------------|-------------------------|
|            | B<br>in mm                                         | C<br>in mm                 | D<br>in mm                   | E<br>in mm                                                                         | F<br>in mm                                                   | 30T<br>in mm              | 12E<br>in mm | G<br>10E<br>in mm | 10F<br>in mm | H<br>10F only<br>in mm                                      | X              | Y<br>in mm              |
| 08         | 0.062                                              | 0.817                      | 0.594                        | 0.120                                                                              | 0.445                                                        | 0.434                     | 0.434        | 0.561             | 0.828        | 0.156                                                       | $7/16-28$ UNEF | 0.473                   |
|            | 1.575                                              | 20.75                      | 15.09                        | 3.05                                                                               | 11.3                                                         | 11.02                     | 11.02        | 14.25             | 21.03        | 3.96                                                        |                | 12.015                  |
| 10         | 0.062                                              | 0.942                      | 0.719                        | 0.120                                                                              | 0.445                                                        | 0.558                     | 0.558        | 0.686             | 0.891        | 0.188                                                       | $9/16-24$ NEF  | 0.590                   |
|            | 1.575                                              | 23.925                     | 18.27                        | 3.05                                                                               | 11.3                                                         | 14.17                     | 14.17        | 17.425            | 22.63        | 4.775                                                       |                | 14.99                   |
| 12         | 0.062                                              | 1.036                      | 0.812                        | 0.120                                                                              | 0.445                                                        | 0.683                     | 0.683        | 0.811             | 1.016        | 0.312                                                       | $11/16-24$ NEF | 0.750                   |
|            | 1.575                                              | 26.315                     | 20.625                       | 3.05                                                                               | 11.3                                                         | 17.35                     | 17.35        | 20.60             | 25.805       | 7.925                                                       |                | 19.05                   |

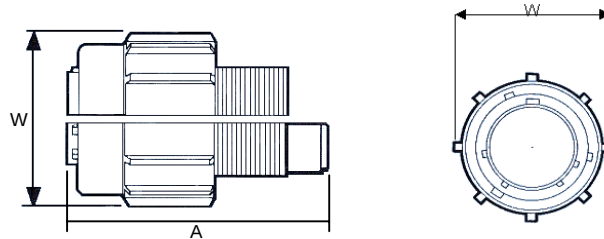


## 162IP Plugs

### Crimp Removable Contacts

#### 162IP-36T

Basic Plug with Threaded Shells  
To accept standard Cable Assemblies



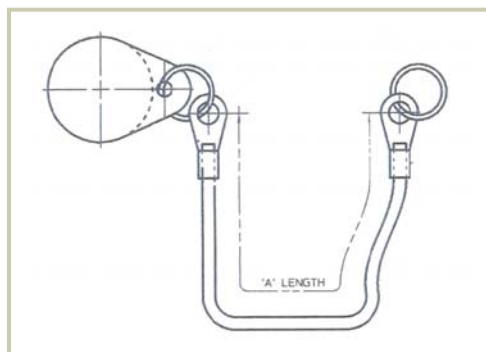
| Shell Size | 'A' Overall Length max | Overall dia. Max.<br>W (044) in mm |
|------------|------------------------|------------------------------------|
| 08         | 1.277<br>32.44         | 0.870<br>22.1                      |
| 10         | 1.277<br>32.44         | 0.979<br>24.865                    |
| 12         | 1.277<br>32.44         | 1.151<br>29.235                    |

#### 162 OVERALL MATED DIMENSIONS

Add the two relevant plug and receptacle overall Dimensions and deduct:  
- 0.303 (7.696mm) for all sizes

## 62IP / 162IP

### Caps



| Shell Size | Part Number     | A Length after Assembly |
|------------|-----------------|-------------------------|
| 08         | 62-5323-001-XXX | 50mm                    |
| 10         | 62-5323-002-XXX | 100mm                   |
| 12         | 62-5323-003-XXX | 150mm                   |



# 162IP / 62IP

## Assembly Instructions

### WIRE STRIPPING – 162IP SERIES

Strip 5.6mm (.220 in) to 6.6mm (.260 in) of insulation from end of wire for both size 20 and 16 contacts taking care not to cut or nick strands. If ends fray twist them back to their original lay.

### CONTACT AND WIRE DATA – 162IP SERIES

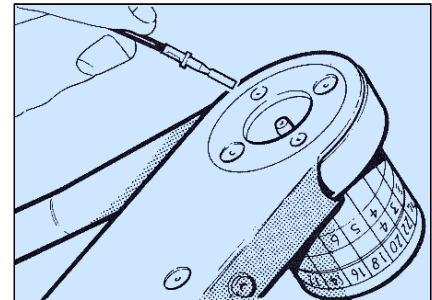
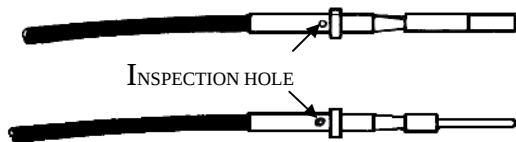
| Contact Size | Colour Code | Contact Part Nos                                   | Suitable Wire Sizes |                               | Permissible Insulation O.D. range for Grommet Sealing | Stripping Lengths in mm    |
|--------------|-------------|----------------------------------------------------|---------------------|-------------------------------|-------------------------------------------------------|----------------------------|
|              |             |                                                    | A.W.G.              | in mm                         |                                                       |                            |
| 20           | RED         | Pin: 162GB-149-20000-05<br>Skt: 162GB-101-20000-05 | 20, 22, 24          | 0.032 – 0.020<br>0.81-0.51    | 0.047 – 0.085<br>1.19 - 2.16                          | 0.220-0.260<br>5.6 - 6.6   |
| 16           | BLUE        | Pin: 162GB-149-16000-05<br>Skt: 162GB-101-16000-05 | 16, 18, 20          | 0.051 – 0.032<br>1.295 – 0.81 | 0.066 – 0.109<br>1.675 – 2.77                         | 0.220 – 0.260<br>5.6 – 6.6 |

### CRIMP WIRE CONTACTS

Use Amphenol 294-542 Crimp Tool (M22520/1-01) with 294-1889-01 Turret Head (M22520/1-02). Release and rotate Turret Knob to proper contact size (as per colour code) and lock adjust Selector Knob on handle to correct wire size [see table]. Insert stripped wire into Contact Pocket until it is visible through inspection hole. Fully seat Contact in Crimp Tool Positioner and close handles in one full stroke. (The Ratchet will not release until tool has completed full stroke). Inspect Crimp for wire visibility through Inspection Hole.

### CRIMPING JAW SETTING

| Contact Size | Wire Size      | Crimp Jaw Setting       |
|--------------|----------------|-------------------------|
| 20           | 24<br>22<br>20 | No. 2<br>No.3<br>No.4   |
| 16           | 20<br>18<br>16 | No. 4<br>No. 5<br>No. 6 |



### CRIMPING WIRE TO CONTACT

#### CONTACT INSERTION

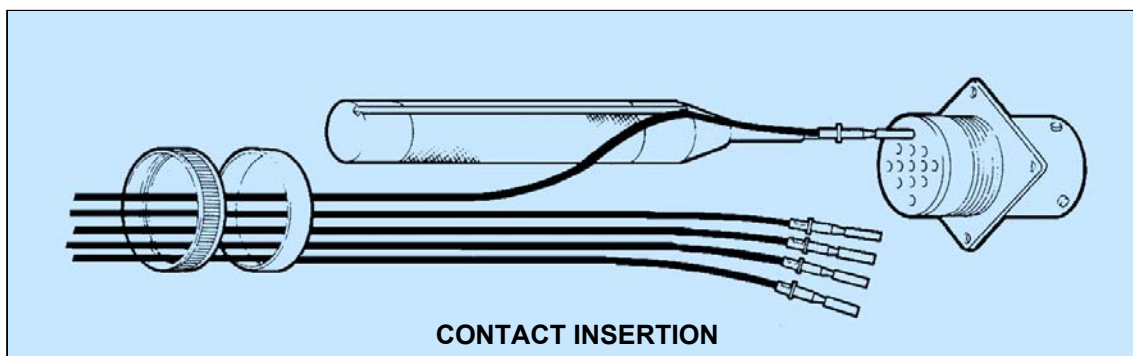
Select the proper insertion tool for the size of contact Table 1. The Insertion Tool and procedure are the same for both pin and socket contacts. Slide rear accessory and sleeve over wire bundle. Lay wire in groove of insertion tool and slide contact into front of tool until it is properly located in tool probe. Insert contact into the correct hole in the rear face of the grommet. Keeping contact in line with the axis of the hole, apply a smooth even push on the tool until the contact is fully seated in position. Note: it is essential that the contact and tool are correctly aligned with the axis of hole during insertion to prevent damage to contacts. Withdraw tool at right angles to grommet surface until complete free of connector. All contacts must be inserted whether in circuit or not and the appropriate size sealing plug used behind any contacts that are not wired. Push the sealing plug in by hand until it is fully seated.

| TABLE 1      |             |                         |              |                 |
|--------------|-------------|-------------------------|--------------|-----------------|
| Contact Size | Colour Code | Insertion Tool Part No. |              | Filler Plugs    |
|              |             | Amphenol                | M.S.         |                 |
| 20           | RED         | 294GB-5000-20           | MS 27488-20  | 162GB-130-20000 |
| 16           | BLUE        | 294-96                  | MS 24256A-16 | 162GB-130-16000 |



# 162IP

## Assembly Instructions

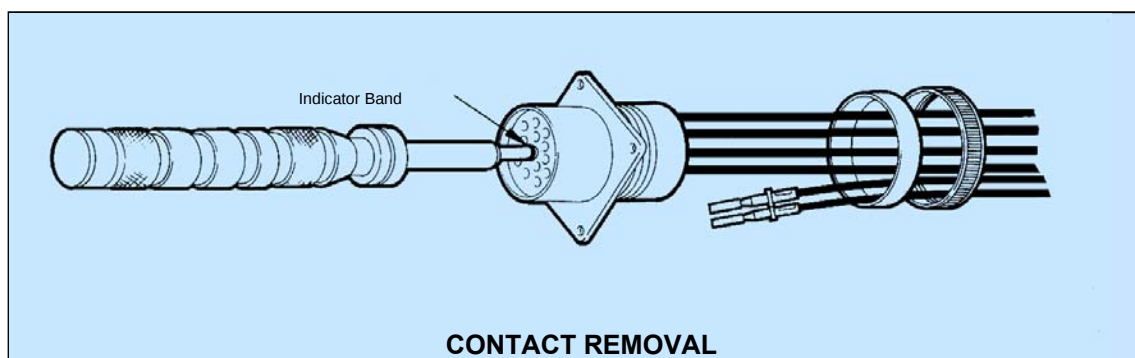


### Contact Size

**CAUTION:** extra care is required in this operation to prevent damage to the connector.

Remove the rear accessory and sleeve and slide back on wire bundle. Select the proper removal tool for the size of contact from table 2. The same tool is used for both pin and socket contacts. Position the removal tool over the contacts to be removed and push until tool probe is fully bottomed, shown when indicator band enters insert hole. Tool is inserted to first band only when removing pin contacts and to the second band for socket contact removal. Slide the plunger know forward to remove contact.

| TABLE 2      |             |                          |              |
|--------------|-------------|--------------------------|--------------|
| Contact Size | Colour Code | Removal Tool Part Number |              |
|              |             | Amphenol                 | M.S.         |
| 20           | RED         | 294-89                   | MS 24256R-20 |
| 16           | BLUE        | 294-97                   | MS 25246R-16 |



### WIRE STRIPPING

#### For 62IP Connectors with Solder Bucket Contacts

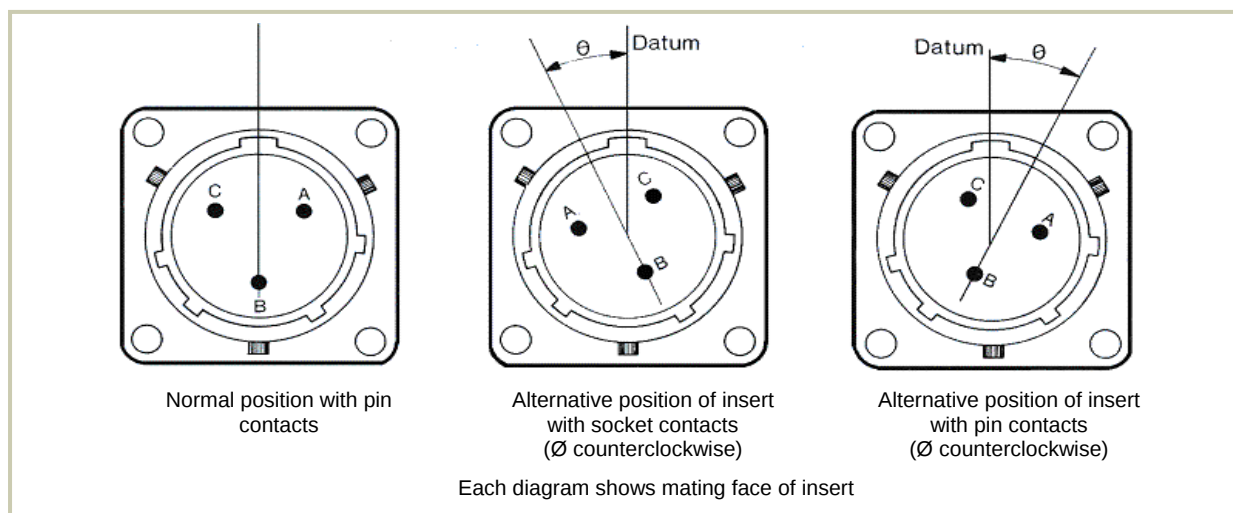
Strip 5.3mm (0.210 in) to 6.1mm (.240 in) of insulation from end of wires to expose centre conductor and tin the ends. If ends fray, twist them back to their original lay before tinning.

| Contact Size | Colour Code | Wire Seal and Conductor |        |           |        |           |        |
|--------------|-------------|-------------------------|--------|-----------|--------|-----------|--------|
|              |             | Wire Insulation         |        |           |        | Conductor |        |
|              |             | Min. Dia.               |        | Max. Dia. |        | Max. Dia. |        |
|              |             | Ins                     | (mm)   | Ins       | (mm)   | Ins       | (mm)   |
| 20           | Red         | 0.047                   | (1.19) | 0.085     | (2.16) | 0.042     | (1.07) |
| 16           | Blue        | 0.066                   | (1.68) | 0.109     | (2.77) | 0.062     | (1.57) |

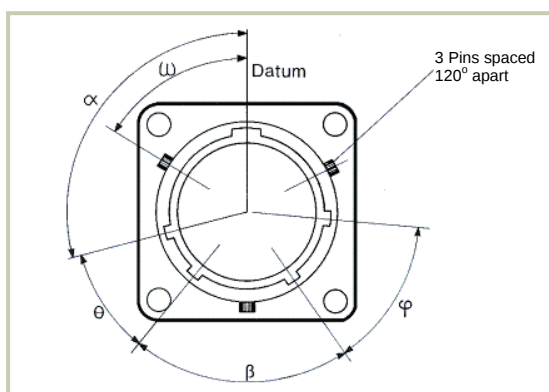


# 62IP / 162IP

## Available Keyway and Insert Orientations



| Insert Arrangement | Normal | Orientation 0 (degrees) |     |     | Z   |
|--------------------|--------|-------------------------|-----|-----|-----|
|                    |        | W                       | X   | Y   |     |
| 8-2                | 0      | 58                      | 122 | -   | -   |
| 8-3                | 0      | 60                      | 210 | -   | -   |
| 8-33               | 0      | 90                      | -   | -   | -   |
| 8-4                | 0      | 45                      | -   | -   | -   |
| 8-98               | 0      | -                       | -   | -   | -   |
| 10-2               | 0      | -                       | -   | -   | -   |
| 10-6               | 0      | 90                      | -   | -   | -   |
| 10-7               | 0      | -                       | -   | -   | -   |
| 12-3               | 0      | -                       | -   | 180 | -   |
| 12-10              | 0      | 60                      | 155 | 270 | 295 |



Datum is always taken from major key or keyway. In receptacles the major keyway always remains fixed in relation to the mounting flange. For the A\*, B, C, D\*, E and F orientations, the three bayonet locations and associated minor keyways are rotated complete, in accordance with the table below.

N.B. The accompanying diagram shows a receptacle shell, with keyways. Corresponding key orientations for a mating plug shell are therefore always clockwise.

| Shell Size | Values for α(degrees) |    |    |     |     |     |    | Values for θ (degrees) |    |    |    |    |    |    | Values for β (degrees) |     |    |    |    |     |    |
|------------|-----------------------|----|----|-----|-----|-----|----|------------------------|----|----|----|----|----|----|------------------------|-----|----|----|----|-----|----|
|            | N                     | A* | B  | C   | D*  | E   | F  | N                      | A* | B  | C  | D* | E  | F  | N                      | A*  | B  | C  | D* | E   | F  |
| 08         | 105                   | 92 | -  | -   | 118 | 118 | 82 | 35                     | 35 | -  | -  | 35 | 30 | 50 | 75                     | 75* | -  | -  | 75 | 100 | 75 |
| 10         | 105                   | 95 | 85 | 125 | 115 | 115 | 85 | 35                     | 35 | 35 | 35 | 35 | 30 | 50 | 75                     | 75  | 75 | 75 | 75 | 100 | 75 |
| 12         | 105                   | 97 | 89 | 121 | 113 | 115 | 85 | 35                     | 35 | 35 | 35 | 35 | 30 | 50 | 75                     | 75  | 75 | 75 | 75 | 100 | 75 |

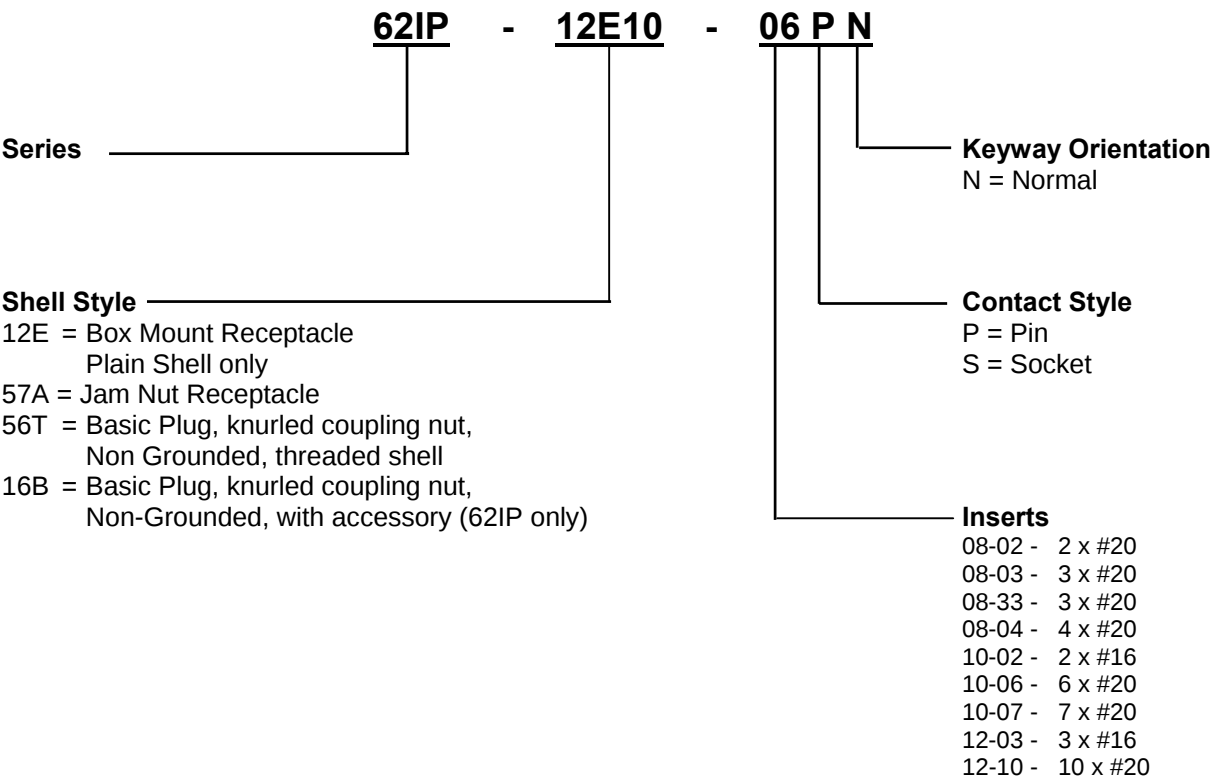
| Shell Size | Values for φ (degrees) |    |    |    |    |    |    | Values for ω (degrees) |    |    |    |    |    |    |
|------------|------------------------|----|----|----|----|----|----|------------------------|----|----|----|----|----|----|
|            | N                      | A* | B  | C  | D* | E  | F  | N                      | A* | B  | C  | D* | E  | F  |
| 08         | 50                     | 50 | -  | -  | 50 | 30 | 45 | 60                     | 47 | -  | -  | 73 | 73 | 47 |
| 10         | 50                     | 50 | 50 | 50 | 50 | 30 | 45 | 60                     | 50 | 40 | 80 | 70 | 70 | 50 |
| 12         | 50                     | 50 | 50 | 50 | 50 | 30 | 45 | 60                     | 52 | 44 | 76 | 68 | 70 | 50 |

\* now inactive for new designs against Pattern 105 but available for replacement purposes. Superseded in DEF STAN 59-35 (Part 1) Sec. 3, by orientations E and F.



62IP

Part Number Information



# 162IP

## Part Number Information

