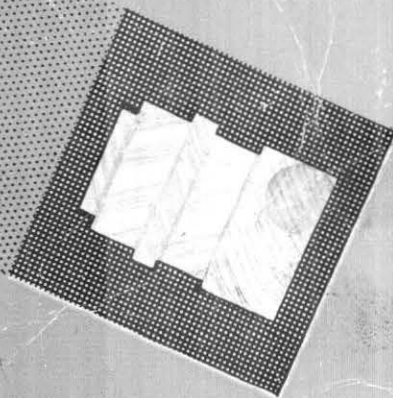
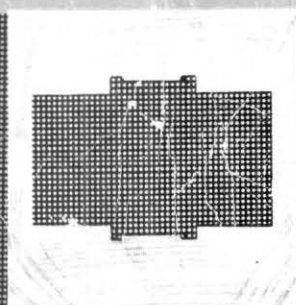


# Standard Plugs & Sockets



Plessey

*The Company's development engineers are constantly improving designs, thus equipment supplied may vary in detail from that illustrated in this catalogue.*

# **Standard Plugs & Sockets**

**Plessey**

## INTRODUCTION

Plessey multi-pin plugs and sockets have long been standard fitments in nearly every British aircraft.

First produced in World War II—under the trade name “Breeze”—they replaced “point-to-point” wiring systems and opened the way for mass aircraft production. These plugs and sockets allowed the prefabrication of complete wiring systems, which were then fitted at any convenient assembly stage. All parts conform to official specifications and many carry Air Ministry reference numbers. The Plessey range of Standard plugs and sockets is now one of the most comprehensive ranges in the industry and is constantly being enlarged to meet the demands of supersonic flight.

Intensive development has been carried out to improve the temperature conditions, altitude and general electrical characteristics of these connectors with the result that the range illustrated in this publication is capable of operating between ambient temperatures of  $-65^{\circ}\text{C}$ . and  $+150^{\circ}\text{C}$ .

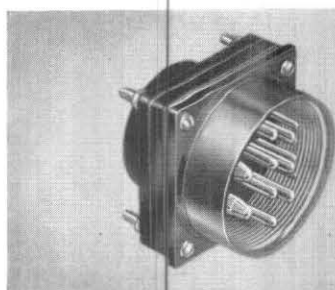
Careful attention has been paid to improvements made in order that this new uprated range remains interchangeable wherever possible with earlier types. This has proved to be highly successful and production of all items other than those illustrated within this publication will cease upon the introduction of the slit comb (see page 11).

Certain items however cannot be considered to be interchangeable in certain circumstances and have therefore been classified as “obsolescent” in the index and production of small quantities may be undertaken to special order but a protracted delivery and special prices may prove unavoidable.

It is important that the specification of Standard plugs and sockets on new equipment is limited only to items illustrated within this publication.

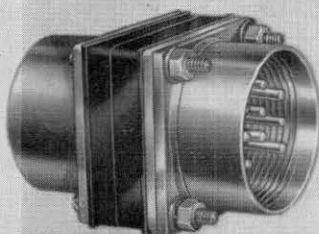
# Plessey

## RANGE OF STANDARD PLUGS & SOCKETS



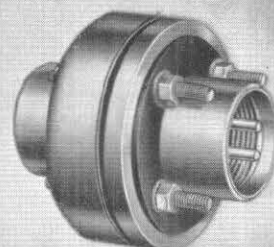
### Single plug (climatic proof)

Shells available in aluminium or steel, with plug pins suitable for crimping or soldering.



### Bulkhead plug (climatic proof)

Double-ended for "breaks" on both sides of bulkheads. Shells available in lightweight aluminium or steel.



### Bulkhead plug (pressurised)

Double-ended for "breaks" on both sides of pressurised bulkheads. Suitable where a minimum leakage of 1 c.c. per hour is permissible at a pressure difference of 1 atmosphere. Available in aluminium only.

*This page shows the types of Standard plugs and sockets available, with some indication of typical uses and applications.*



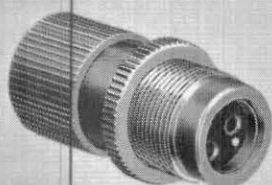
### Normal and reverse socket (vibration and climatic proof)

Sealed against climatic conditions, with vibration-proof inserts. Supplied in aluminium or steel, with inserts suitable for crimping or soldering.



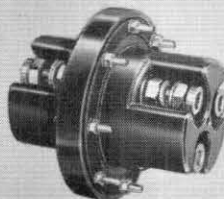
### Right-angle short-reach socket

For use in confined space. Soldered connections, with shell in aluminium or steel.



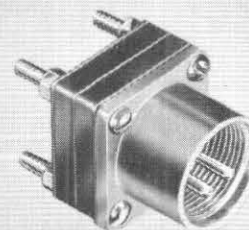
### Thermo-couple plug and socket

For use in circuits employing temperature compensating leads. Pin and socket inserts of constantan and brass, or chromel and alamel.



### Heavy duty pressurised bulkhead connector block

For use at pressure cabin bulkheads, where heavy duty leads must be broken. Fully pressurised at 15 lb.



### Plug (detachable leads)

For use on equipment where only short leads are required behind the plug. Shell in aluminium, and with soldered connections.

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## PERFORMANCE

Plessey Standard plugs and sockets were primarily designed for d.c. systems, but their use is not restricted to low voltage circuits although their suitability for a.c. naturally depends on voltage, frequency and other characteristics.

This range of plugs and sockets is normally climatic proof, but should not be mounted under conditions of full exposure. Contact resistance does not exceed 2 milliohms on contacts up to 10 amperes, and 1 milliohm for contacts rated above this figure. By the use of special fittings, the steel range can be adapted to withstand a flame temperature of 1,200° C. for a short period without circuit failure. Details are available on request.

Laboratory tests under simulated high altitude conditions have proved that these assemblies can be safely employed for duty at 208 volts a.c. at altitudes up to and including 60,000 feet.

By virtue of the introduction of silicone gaskets and insulants moulded from alkyd, combined with other slight design changes, these plugs and sockets are suitable for use between ambient temperatures of - 65° C. and + 150° C.

There are 23 normal contact combinations available, which can be contained within aluminium or steel shells. Contacts are available for 7, 19, 37 and 64 ampere ratings, in 6 basic shell or body sizes.

A wide variety of fittings is available to take multi-core and single cables, both braided and unbraided. Although primarily designed to accommodate the "cel" range of cables they can as readily be used with the "pren" range. Many other different types of cable can be used and expert advice on the fittings required will always gladly be given by the Company's advisory service at Cheney Manor, Swindon.

Standard sockets are listed as "normal" and "reverse". "Reverse" sockets are identical to the "normal" sockets except that the coding of the inserts is reversed (i.e., a mirror reflection of the coding of the "normal" socket), and the moulding is marked with the letter "A". "Reverse" sockets are only used with bulkhead plugs which mate with one "normal" and one "reverse" socket, thus facilitating continuity of the coding system throughout the circuit. All socket assemblies listed in the main catalogue are specially proofed against vibration.

Pin dispositions are so arranged that it is impossible to mis-mate a plug and socket; the latter being fully floating within the housing ensuring an evenly balanced contact pressure. To disconnect a plug and socket, the coupling nut has only to be slackened to allow the socket housing, outside the mouldings, to be unscrewed from the plug shell.

Failure of electrical systems in adverse weather has often been attributed to the closeness of pins in multi-connectors. Since a creepage path occurs by deposited moisture forming a chain, widely spaced pins in a single plane will be no improvement if condensation is present. The solution, embodied in all Standard plugs, has been to increase the dielectric spacing between pins on different planes, thus breaking the continuity of condensation deposits and counteracting the formation of creepage paths. To make this possible, the moulding is so designed that the pins stand in a cavity formed by a series of ridges.

## SELECTING SUITABLE PLUGS AND SOCKETS

Full details of the Standard range of Plessey plugs and sockets, and numerous accessories, will be found in the body of the catalogue. To select a suitable plug and socket, reference should first be made to the folded sheet facing page 39, wherein details of the 23 normal contact combinations are contained. Reference should then be made to the classified tables of plugs and sockets on pages 8 to 13 and against the contact combination already identified will be found the requisite part numbers of the plugs or sockets, together with Air Ministry reference numbers, as applicable, and dimensional information.

To assist in the identification of items of current manufacture, an index to the entire range of Plessey Standard plugs, sockets and accessories has been compiled on pages 29 to 39. Those part numbers in heavy print are of current manufacture and detailed information regarding them will be found in the classified tables on pages 8 to 13, whilst the remainder are either discontinued or obsolescent.

A comparator of Air Ministry reference numbers to Plessey part numbers will also be found on pages 27 to 28, and here again, heavy print denotes current manufacture.

It will assist greatly if the relevant Plessey part numbers are quoted on all orders.

# *design AND electrical* FEATURES OF STANDARD PLUGS AND SOCKETS

|                               |                                                                                                                                                                                                           |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>APPROVAL</b>               | Approved by the Ministry of Supply and specified for use on civil and military aircraft.                                                                                                                  |
| <b>HIGH ALTITUDE</b>          | Suitable for operation at altitudes up to and including 60,000 feet, at which height tests show safe rating of 208 volts a.c.                                                                             |
| <b>TEMPERATURE</b>            | Suitable for operation between $-65^{\circ}\text{C.}$ to $+150^{\circ}\text{C.}$ ambient temperatures.                                                                                                    |
| <b>PRESSURISED</b>            | The pressurised bulkhead plug only is sealed against pressures up to 15 lb. per square inch.                                                                                                              |
| <b>HUMIDITY</b>               | All types are climatic proof, suitable for operation under humid conditions, but should not be mounted under conditions of full exposure.                                                                 |
| <b>VIBRATION PROOF</b>        | Suitable for operation where vibration is encountered, the coupling nuts on the sockets being provided with holes for wire locking.                                                                       |
| <b>VOLTAGE RATING</b>         | 250 volts d.c. or 350 volts a.c. at sea level.                                                                                                                                                            |
| <b>CURRENT RATING</b>         | Contacts are available for 7, 19, 37 and 64 ampere ratings.                                                                                                                                               |
| <b>CONTACT RESISTANCE</b>     | Does not exceed 2 milliohms on contacts up to 10 amperes and 1 milliohm for contacts rated above 10 amperes.                                                                                              |
| <b>FLAMEPROOF</b>             | By the use of special fittings, the steel range can be adapted to withstand a flame temperature of $1,200^{\circ}\text{C.}$ for a short period without circuit failure. Details are available on request. |
| <b>CONTACTS</b>               | Plug pins and socket inserts are of brass, silver plated for good electrical connection and may be soldered or crimped as desired.                                                                        |
| <b>SHELL DESIGN</b>           | Throughout the ranges, the plug is always the fixed unit and the socket the free unit. A reverse socket being used on one side of each bulkhead plug.                                                     |
| <b>CABLE FITTINGS</b>         | A comprehensive range of fittings are available to suit almost any known type of cable available.                                                                                                         |
| <b>EXTENDED CREEPAGE PATH</b> | By virtue of design of the moulding, voltage breakdown between pins is practically eliminated.                                                                                                            |

# Plessey

## STANDARD PLUGS & SOCKETS

Detailed particulars of Plessey Standard plugs and sockets of current manufacture will be found on pages 8 to 11. For convenience, a summary of these part numbers is given in the tables below, but the thermo-couple and special purpose plugs and sockets listed on pages 12 and 13 are not included.

### PLUGS

| Body Size | Code * | Contact Combination |     |     |     | SINGLE        |               | BULKHEAD      |               |              |
|-----------|--------|---------------------|-----|-----|-----|---------------|---------------|---------------|---------------|--------------|
|           |        | 7A                  | 19A | 37A | 64A | Aluminium     | Steel         | Aluminium     |               | Steel        |
|           |        |                     |     |     |     | Climatic      | Climatic      | Climatic      | Pressurised   | Climatic     |
| A         | 1      | 2                   | —   | —   | —   | 2CZ<br>111223 | 2CZ<br>108906 | 2CZ<br>111413 | 2CZ<br>138097 | 2CZ<br>84864 |
|           | 2      | 4                   | —   | —   | —   | 111399        | 84870         | 111414        | 138099        | 84865        |
|           | 3      | —                   | 1   | —   | —   | 111400        | 108907        | 111415        | 138096        | 108925       |
|           |        |                     |     |     |     |               |               |               |               |              |
| Z         | 4      | 5                   | —   | —   | —   | 111401        | 85945         | 111416        | 138104        | 108926       |
|           | 5      | —                   | 2   | —   | —   | 111402        | 108908        | 111417        | 138098        | 108927       |
|           | 6      | 2                   | 2   | —   | —   | 111403        | 108909        | 111418        | 138100        | 108928       |
|           |        |                     |     |     |     |               |               |               |               |              |
| B         | 7      | 9                   | —   | —   | —   | 111224        | 84871         | 111419        | 138246        | 84866        |
|           | 8      | 2                   | 4   | —   | —   | 111404        | 108910        | 111420        | 138106        | 108929       |
|           | 9      | —                   | 4   | —   | —   | 111299        | 108911        | 111421        | 138101        | 108930       |
|           | 10     | —                   | 5   | —   | —   | 111405        | 108912        | 111422        | 138105        | 108931       |
|           | 11     | 7                   | 2   | —   | —   | 111225        | 108913        | 111423        | 138247        | 108932       |
| C         | 12     | 1                   | —   | 3   | —   | 111406        | 108914        | 111424        | 138102        | 108933       |
|           | 13     | 12                  | —   | —   | —   | 111226        | 108915        | 111425        | 138111        | 84867        |
|           | 14     | 12                  | 2   | —   | —   | 111227        | 108916        | 111426        | 138113        | 84868        |
|           | 15     | —                   | 6   | —   | —   | 111297        | 108917        | 111427        | 138107        | 108934       |
|           | 16     | —                   | —   | 4   | —   | 111228        | 108918        | 111428        | 138103        | 108935       |
| D         | 17     | 2                   | 2   | 4   | —   | 111407        | 108919        | 111429        | 138109        | 108936       |
|           | 18     | 4                   | 7   | 2   | —   | 111408        | 108920        | 111430        | 138112        | 108937       |
|           | 19     | 6                   | 2   | 2   | —   | 111409        | 108921        | 111431        | 138110        | 108938       |
|           | 20     | 12                  | 4   | —   | —   | 111410        | 108922        | 111432        | 138114        | 108939       |
|           | 21     | 24                  | 2   | —   | —   | 111229        | 108923        | 111433        | 138115        | 84869        |
|           | 22     | 4                   | —   | —   | 2   | 111411        | 108924        | 111434        | 138108        | 108940       |
|           |        |                     |     |     |     |               |               |               |               |              |
| E         | 23     | 20                  | 4   | 3   | —   | 111412        | 108905        | 111435        | 138116        | 108941       |
| See page  |        |                     |     |     |     | 8             | 8             | 9             | 10            | 9            |

\* These codes represent the various contact arrangements, which are illustrated on the folded sheet facing page 39.

### SOCKETS

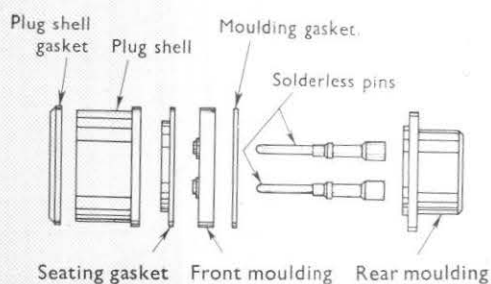
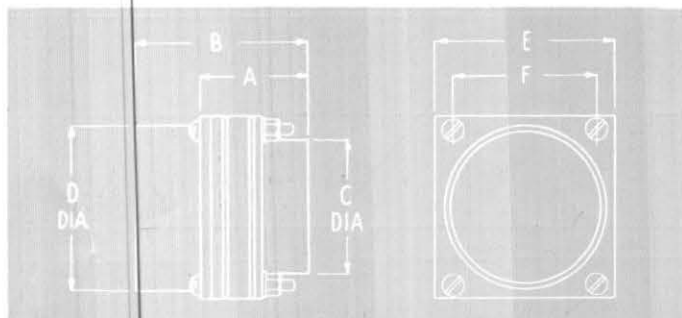
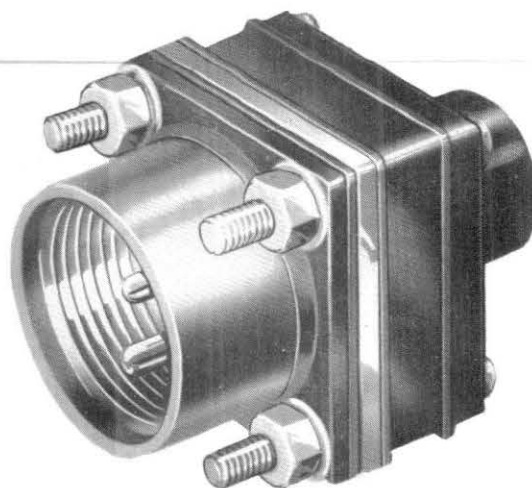
| Body Size | Code * | Contact Combination |     |     |     | NORMAL                  |                         | REVERSE (BULKHEAD)      |                         |
|-----------|--------|---------------------|-----|-----|-----|-------------------------|-------------------------|-------------------------|-------------------------|
|           |        | 7A                  | 19A | 37A | 64A | Aluminium               | Steel                   | Aluminium               | Steel                   |
|           |        |                     |     |     |     | Vib. proof and Climatic | Vib. proof and Climatic | Vib. proof and Climatic | Vib. proof and Climatic |
| A         | 1      | 2                   | —   | —   | —   | 2CZ<br>111230           | 2CZ<br>84872            | 2CZ<br>111448           | 2CZ<br>84879            |
|           | 2      | 4                   | —   | —   | —   | 111231                  | 84873                   | 111449                  | 84880                   |
|           | 3      | —                   | 1   | —   | —   | 111232                  | 108943                  | 111232                  | 108943                  |
|           |        |                     |     |     |     |                         |                         |                         |                         |
| Z         | 4      | 5                   | —   | —   | —   | 111233                  | 84874                   | 111451                  | 108959                  |
|           | 5      | —                   | 2   | —   | —   | 111436                  | 108944                  | 111452                  | 108960                  |
|           | 6      | 2                   | 2   | —   | —   | 111437                  | 108945                  | 111453                  | 108961                  |
|           |        |                     |     |     |     |                         |                         |                         |                         |
| B         | 7      | 9                   | —   | —   | —   | 111234                  | 84875                   | 111454                  | 84881                   |
|           | 8      | 2                   | 4   | —   | —   | 111438                  | 108946                  | 111455                  | 108962                  |
|           | 9      | —                   | 4   | —   | —   | 111298                  | 108947                  | 111456                  | 108963                  |
|           | 10     | —                   | 5   | —   | —   | 111439                  | 108948                  | 111457                  | 108964                  |
|           | 11     | 7                   | 2   | —   | —   | 111440                  | 108949                  | 111458                  | 108965                  |
| C         | 12     | 1                   | —   | 3   | —   | 111441                  | 108950                  | 111459                  | 108966                  |
|           | 13     | 12                  | —   | —   | —   | 111235                  | 84876                   | 111460                  | 84882                   |
|           | 14     | 12                  | 2   | —   | —   | 111236                  | 84877                   | 111461                  | 84883                   |
|           | 15     | —                   | 6   | —   | —   | 111296                  | 108951                  | 111462                  | 108967                  |
|           | 16     | —                   | —   | 4   | —   | 111237                  | 108952                  | 111463                  | 108968                  |
| D         | 17     | 2                   | 2   | 4   | —   | 111442                  | 108953                  | 111464                  | 108969                  |
|           | 18     | 4                   | 7   | 2   | —   | 111443                  | 108954                  | 111465                  | 108970                  |
|           | 19     | 6                   | 2   | 2   | —   | 111444                  | 108955                  | 111466                  | 108971                  |
|           | 20     | 12                  | 4   | —   | —   | 111445                  | 108956                  | 111467                  | 108972                  |
|           | 21     | 24                  | 2   | —   | —   | 111238                  | 84878                   | 111468                  | 84884                   |
|           | 22     | 4                   | —   | —   | 2   | 111446                  | 108957                  | 111469                  | 108973                  |
|           |        |                     |     |     |     |                         |                         |                         |                         |
| E         | 23     | 20                  | 4   | 3   | —   | 111447                  | 108942                  | 111470                  | 108974                  |
| See page  |        |                     |     |     |     | 11                      | 11                      | 11                      | 11                      |

\* These codes represent the various contact arrangements, which are illustrated on the folded sheet facing page 39.

# Plessey

## SINGLE PLUG (Climatic Proof)

Proof against all climatic conditions, being fitted with gaskets on each side of the front moulding. Suitable for crimped or soldered connections. Shells available in aluminium, or steel.



NOTE: A brass backing plate is to be introduced for use behind the rear moulding in order to prevent any damage by undue tightening of the fixing screws.

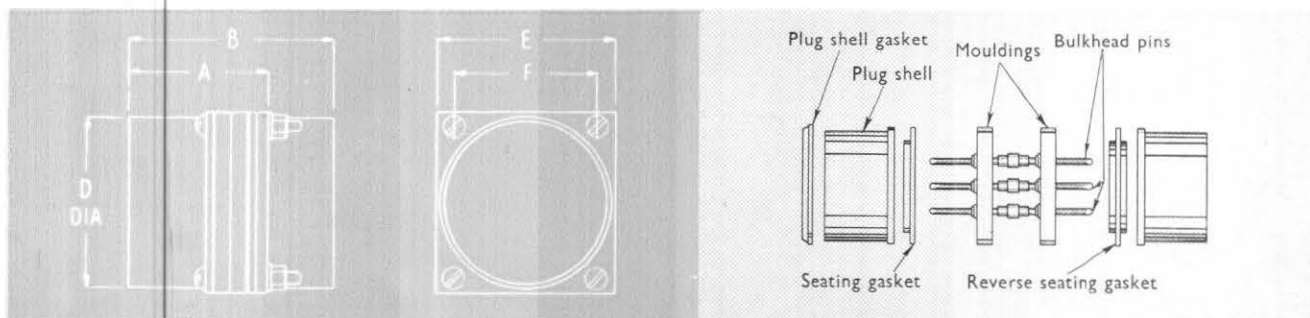
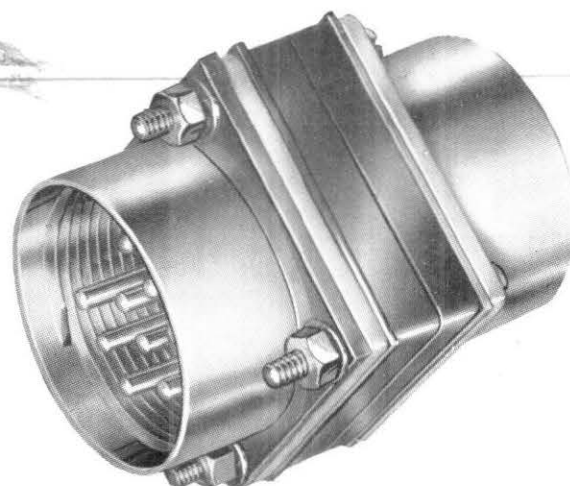
| Body Size | CONTACTS |       |       |       | ALUMINIUM |          |            | STEEL    |          |            | A     | B     | C dia. | D dia. | E sq. | F crs. sq. | Fixing holes |
|-----------|----------|-------|-------|-------|-----------|----------|------------|----------|----------|------------|-------|-------|--------|--------|-------|------------|--------------|
|           | 7 A.     | 19 A. | 37 A. | 64 A. | Part No.  | A/M Ref. | Weight oz. | Part No. | A/M Ref. | Weight oz. |       |       |        |        |       |            |              |
| A         | 2        | —     | —     | —     | 2CZ       | 5X/      | —          | 2CZ      | 5X/      | —          | —     | —     | —      | —      | —     | —          | —            |
|           | 4        | —     | —     | —     | 111223    | 7139     | -8         | 108906   | 7108     | 1-1        | -.941 | 1-384 | -.497  | -.781  | -.937 | -.720      | 6BA          |
|           | —        | —     | —     | —     | 111399    | 7140     | -8         | 84870    | 7030     | 1-2        | —     | —     | —      | —      | —     | —          | —            |
|           | —        | —     | —     | —     | 111400    | 7141     | -8         | 108907   | 7050     | 1-1        | —     | —     | —      | —      | —     | —          | —            |
| Z         | 5        | —     | —     | —     | 111401    | 7142     | 1-1        | 85945    | 7032     | 1-4        | -.941 | 1-509 | -.679  | -.934  | 1-125 | -.875      | 6BA          |
|           | —        | 2     | —     | —     | 111402    | 7143     | 1-1        | 108908   | 7109     | 1-4        | —     | —     | —      | —      | —     | —          | —            |
|           | 2        | 2     | —     | —     | 111403    | 7144     | 1-2        | 108909   | 7110     | 1-5        | —     | —     | —      | —      | —     | —          | —            |
|           | —        | —     | —     | —     | —         | —        | —          | —        | —        | —          | —     | —     | —      | —      | —     | —          | —            |
| B         | 9        | —     | —     | —     | 111224    | 7145     | 1-5        | 84871    | 7033     | 1-9        | -.941 | 1-509 | -.897  | 1-153  | 1-250 | 1-000      | 6BA          |
|           | 2        | 4     | —     | —     | 111404    | 7146     | 1-6        | 108910   | 7111     | 2-0        | —     | —     | —      | —      | —     | —          | —            |
|           | —        | 4     | —     | —     | 111299    | 7147     | 1-5        | 108911   | 7112     | 2-0        | —     | —     | —      | —      | —     | —          | —            |
|           | —        | 5     | —     | —     | 111405    | 7148     | 1-6        | 108912   | 7113     | 2-1        | —     | —     | —      | —      | —     | —          | —            |
|           | 7        | 2     | —     | —     | 111225    | 7149     | 1-6        | 108913   | 7034     | 2-0        | —     | —     | —      | —      | —     | —          | —            |
| C         | 1        | —     | 3     | —     | 111406    | 7150     | 2-0        | 108914   | 7031     | 2-5        | -.941 | 1-509 | 1-047  | 1-341  | 1-437 | 1-187      | 6BA          |
|           | 12       | —     | —     | —     | 111226    | 7151     | 1-9        | 108915   | 7035     | 2-4        | —     | —     | —      | —      | —     | —          | —            |
|           | 12       | 2     | —     | —     | 111227    | 7152     | 2-0        | 108916   | 7036     | 2-5        | —     | —     | —      | —      | —     | —          | —            |
|           | —        | 6     | —     | —     | 111297    | 7153     | 2-0        | 108917   | 7114     | 2-5        | —     | —     | —      | —      | —     | —          | —            |
|           | —        | —     | 4     | —     | 111228    | 7154     | 2-2        | 108918   | 7115     | 2-7        | —     | —     | —      | —      | —     | —          | —            |
| D         | 2        | 2     | 4     | —     | 111407    | 7155     | 3-0        | 108919   | —        | 3-7        | -.941 | 1-509 | 1-416  | 1-715  | 1-750 | 1-469      | 6BA          |
|           | 4        | 7     | 2     | —     | 111408    | 7156     | 3-1        | 108920   | —        | 3-9        | —     | —     | —      | —      | —     | —          | —            |
|           | 6        | 2     | 2     | —     | 111409    | 7157     | 2-9        | 108921   | —        | 3-6        | —     | —     | —      | —      | —     | —          | —            |
|           | 12       | 4     | —     | —     | 111410    | 7158     | 2-8        | 108922   | 7116     | 3-6        | —     | —     | —      | —      | —     | —          | —            |
|           | 24       | 2     | —     | —     | 111229    | 7159     | 2-9        | 108923   | 7037     | 3-6        | —     | —     | —      | —      | —     | —          | —            |
|           | 4        | —     | —     | 2     | 111411    | 7445     | 2-4        | 108924   | 7117     | 3-2        | —     | —     | —      | —      | —     | —          | —            |
|           | —        | —     | —     | —     | —         | —        | —          | —        | —        | —          | —     | —     | —      | —      | —     | —          | —            |
| E         | 20       | 4     | 3     | —     | 111412    | 7160     | 4-2        | 108905   | 7118     | 5-1        | -.941 | 1-509 | 1-672  | 1-965  | 2-000 | 1-687      | 4BA          |

Illustrations of the various contact arrangements are shown on the folded sheet facing page 39. Suitable mating sockets for these plugs are listed on page 11. Panel piercing details are shown on page 14. All dimensions are in inches.

# Plessey

## BULKHEAD PLUG (Climatic Proof)

Sealed against all climatic conditions, and ideal for use where a "break" is required on both sides of the bulkhead. Shells available in aluminium—where light weight is essential—and also in steel.



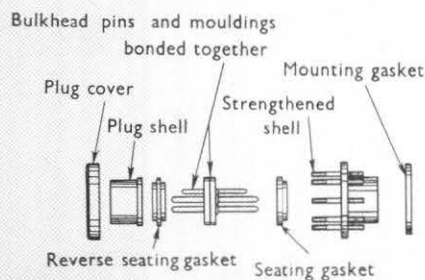
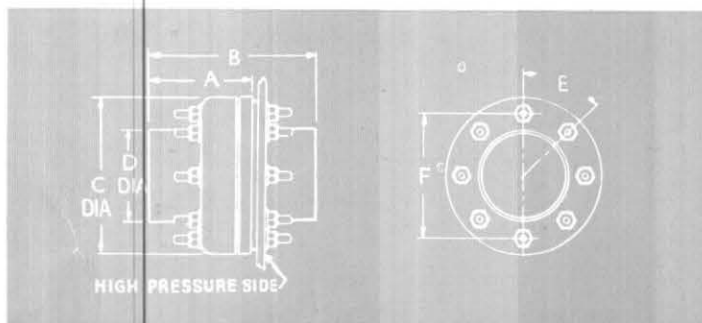
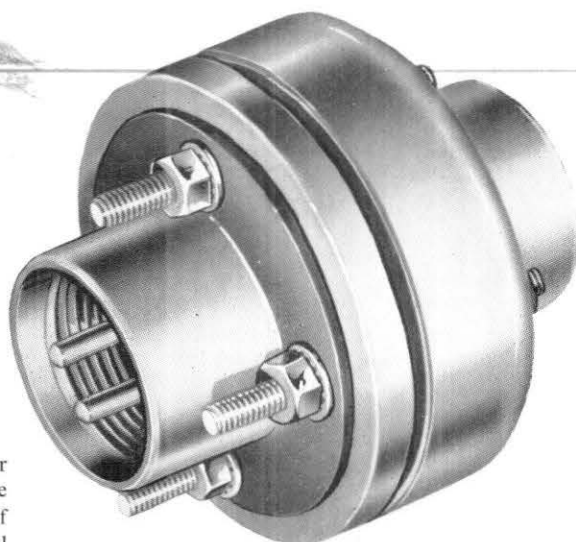
| Body Size | CONTACTS |      |      |      | ALUMINIUM |          |            | STEEL    |          |            | A     | B     | D dia. | E sq. | F crs. sq. | Fixing holes |
|-----------|----------|------|------|------|-----------|----------|------------|----------|----------|------------|-------|-------|--------|-------|------------|--------------|
|           | 7 A      | 19 A | 37 A | 64 A | Part No.  | A/M Ref. | Weight oz. | Part No. | A/M Ref. | Weight oz. |       |       |        |       |            |              |
| A         | 2        | —    | —    | —    | 2CZ       | 5X/      | —          | 2CZ      | 5X/      | —          | —     | —     | —      | —     | —          | —            |
|           | 4        | —    | —    | —    | 111413    | 7161     | 1-0        | 84864    | 7021     | 1-6        | 1-182 | 1-625 | -.781  | -.937 | -.720      | 6BA          |
|           | —        | —    | —    | —    | 111414    | 7162     | 1-0        | 84865    | 7022     | 1-6        | —     | —     | —      | —     | —          | —            |
|           | —        | 1    | —    | —    | 111415    | —        | 1-0        | 108925   | 7119     | 1-6        | —     | —     | —      | —     | —          | —            |
| Z         | 5        | —    | —    | —    | 111416    | 7163     | 1-3        | 108926   | 7120     | 2-0        | —     | —     | —      | —     | —          | —            |
|           | —        | 2    | —    | —    | 111417    | 7164     | 1-3        | 108927   | 7121     | 2-0        | 1-307 | 1-875 | -.934  | 1-125 | -.875      | 6BA          |
|           | —        | 2    | —    | —    | 111418    | 7165     | 1-4        | 108928   | 7122     | 2-1        | —     | —     | —      | —     | —          | —            |
|           | —        | —    | —    | —    | —         | —        | —          | —        | —        | —          | —     | —     | —      | —     | —          | —            |
| B         | 9        | —    | —    | —    | 111419    | 7166     | 1-6        | 84866    | 7025     | 2-6        | —     | —     | —      | —     | —          | —            |
|           | 2        | 4    | —    | —    | 111420    | —        | 1-9        | 108929   | 7123     | 2-8        | —     | —     | —      | —     | —          | —            |
|           | —        | 4    | —    | —    | 111421    | —        | 1-8        | 108930   | 7023     | 2-7        | 1-307 | 1-875 | 1-153  | 1-250 | 1-000      | 6BA          |
|           | —        | 5    | —    | —    | 111422    | —        | 1-9        | 108931   | 7124     | 2-9        | —     | —     | —      | —     | —          | —            |
|           | 7        | 2    | —    | —    | 111423    | 7167     | 1-8        | 108932   | 7026     | 2-8        | —     | —     | —      | —     | —          | —            |
| C         | 1        | —    | 3    | —    | 111424    | —        | 2-4        | 108933   | 7024     | 3-4        | —     | —     | —      | —     | —          | —            |
|           | 12       | —    | —    | —    | 111425    | 7168     | 2-1        | 84867    | 7027     | 3-2        | —     | —     | —      | —     | —          | —            |
|           | 12       | 2    | —    | —    | 111426    | 7169     | 2-3        | 84868    | 7028     | 3-4        | 1-037 | 1-875 | 1-341  | 1-437 | 1-187      | 6BA          |
|           | —        | 6    | —    | —    | 111427    | —        | 2-3        | 108934   | —        | 3-4        | —     | —     | —      | —     | —          | —            |
|           | —        | —    | 4    | —    | 111428    | 7170     | 2-6        | 108935   | 7125     | 3-7        | —     | —     | —      | —     | —          | —            |
| D         | 2        | 2    | 4    | —    | 111429    | —        | 3-5        | 108936   | —        | 5-1        | —     | —     | —      | —     | —          | —            |
|           | 4        | 7    | 2    | —    | 111430    | —        | 3-3        | 108937   | —        | 5-0        | —     | —     | —      | —     | —          | —            |
|           | 6        | 2    | 2    | —    | 111431    | 7448     | 3-2        | 108938   | —        | 4-7        | 1-307 | 1-875 | 1-715  | 1-750 | 1-469      | 6BA          |
|           | 12       | 4    | —    | —    | 111432    | —        | 3-1        | 108939   | —        | 4-7        | —     | —     | —      | —     | —          | —            |
|           | 24       | 2    | —    | —    | 111433    | 7171     | 3-2        | 84869    | 7029     | 4-8        | —     | —     | —      | —     | —          | —            |
|           | 4        | —    | —    | 2    | 111434    | 7377     | 3-7        | 108940   | —        | 5-2        | —     | —     | —      | —     | —          | —            |
| E         | 20       | 4    | 3    | —    | 111435    | —        | 4-8        | 108941   | 7126     | 6-6        | 1-307 | 1-875 | 1-965  | 2-000 | 1-687      | 4BA          |

Illustrations of the various contact arrangements are shown on the folded sheet facing page 39. Suitable mating sockets for these plugs are listed on page 11. Panel piercing details are shown on page 14. All dimensions are in inches.

# Plessey

## BULKHEAD PLUG (Pressurised)

Specially designed for use in pressurised aircraft cabins, and double-ended for "breaks" on both sides of bulkheads. Effectively sealed against a pressure difference of 15 lb. per square inch. Suitable where a minimum leakage of 1 c.c. per hour is permissible at a pressure difference of 1 atmosphere. Shell supplied in aluminium only, to reduce weight to a minimum.



| Body Size | CONTACTS |      |      |      | ALUMINIUM |          |            | A     | B     | C dia. | D dia. | E   | F P.C.D. | Fixing holes | Fixing holes size |
|-----------|----------|------|------|------|-----------|----------|------------|-------|-------|--------|--------|-----|----------|--------------|-------------------|
|           | 7 A      | 19 A | 37 A | 64 A | Part No.  | A/M Ref. | Weight oz. |       |       |        |        |     |          |              |                   |
| A         | 2        | —    | —    | —    | 2CZ       | 5X/      | —          | 1.201 | 1.763 | 1.572  | .781   | 90° | 1.018    | 4            | 6BA               |
|           | 4        | —    | —    | —    | 138097    | —        | 2.1        |       |       |        |        |     |          |              |                   |
|           | —        | 1    | —    | —    | 138099    | —        | 2.2        |       |       |        |        |     |          |              |                   |
| Z         | —        | —    | —    | —    | 138096    | —        | 2.0        |       |       |        |        |     |          |              |                   |
|           | 5        | —    | —    | —    | 138104    | —        | 2.5        | 1.327 | 2.036 | 1.812  | .934   | 90° | 1.237    | 4            | 6BA               |
|           | —        | 2    | —    | —    | 138098    | —        | 2.5        |       |       |        |        |     |          |              |                   |
| B         | 2        | 2    | —    | —    | 138100    | —        | 2.7        |       |       |        |        |     |          |              |                   |
|           | 9        | —    | —    | —    | 138246    | —        | 3.5        | 1.327 | 2.036 | 2.000  | 1.153  | 45° | 1.414    | 8            | 6BA               |
|           | 2        | 4    | —    | —    | 138106    | —        | 3.9        |       |       |        |        |     |          |              |                   |
|           | —        | 4    | —    | —    | 138101    | —        | 3.3        |       |       |        |        |     |          |              |                   |
|           | —        | 5    | —    | —    | 138105    | —        | 4.0        |       |       |        |        |     |          |              |                   |
|           | 7        | 2    | —    | —    | 138247    | —        | 3.3        |       |       |        |        |     |          |              |                   |
| C         | 1        | —    | 3    | —    | 138102    | —        | 4.8        | 1.327 | 2.036 | 2.312  | 1.341  | 45° | 1.678    | 8            | 6BA               |
|           | 12       | —    | —    | —    | 138111    | —        | 4.4        |       |       |        |        |     |          |              |                   |
|           | 12       | 2    | —    | —    | 138113    | —        | 4.7        |       |       |        |        |     |          |              |                   |
|           | —        | 6    | —    | —    | 138107    | —        | 4.4        |       |       |        |        |     |          |              |                   |
|           | —        | —    | 4    | —    | 138103    | —        | 5.6        |       |       |        |        |     |          |              |                   |
| D         | 2        | 2    | 4    | —    | 138109    | —        | 7.5        | 1.327 | 2.036 | 2.687  | 1.715  | 45° | 2.076    | 8            | 6BA               |
|           | 4        | 7    | 2    | —    | 138112    | —        | 6.8        |       |       |        |        |     |          |              |                   |
|           | 6        | 2    | 2    | —    | 138110    | —        | 6.5        |       |       |        |        |     |          |              |                   |
|           | 12       | 4    | —    | —    | 138114    | —        | 5.9        |       |       |        |        |     |          |              |                   |
|           | 24       | 2    | —    | —    | 138115    | —        | 6.0        |       |       |        |        |     |          |              |                   |
|           | 4        | —    | —    | 2    | 138108    | —        | 6.2        |       |       |        |        |     |          |              |                   |
| E         | 20       | 4    | 3    | —    | 138116    | —        | 7.9        | 1.327 | 2.036 | 3.062  | 1.965  | 45° | 2.386    | 8            | 4BA               |

Illustrations of the various contact arrangements are shown on the folded sheet facing page 39. Suitable mating sockets for these plugs are listed on page 11. Panel piercing details are shown on page 14. All dimensions are in inches.

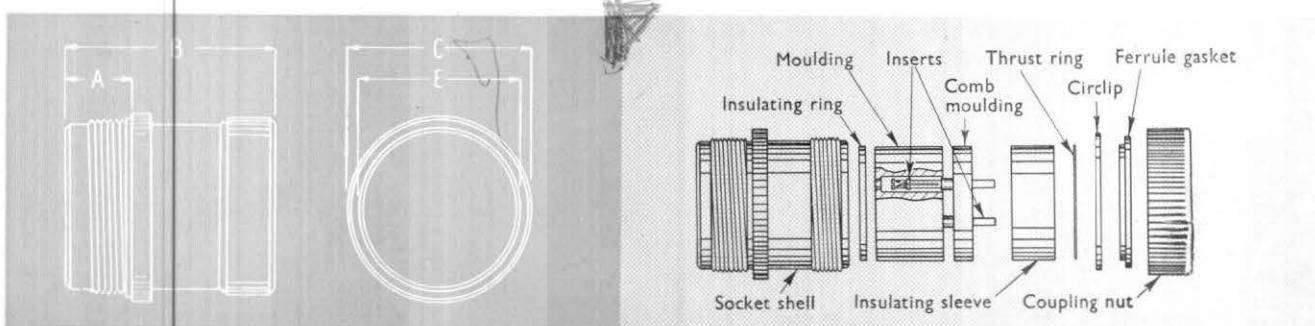
# Plessey



## SOCKET (Climatic and Vibration Proof)

Sealed against all climatic conditions, and with circlip-type inserts. Available in aluminium or steel, with crimped or soldered connections. The coupling nuts on these sockets have holes provided for wire locking.

In order to facilitate wiring and servicing of Standard sockets, it is planned to introduce a slit comb at a later date.



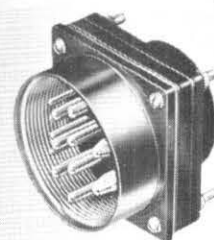
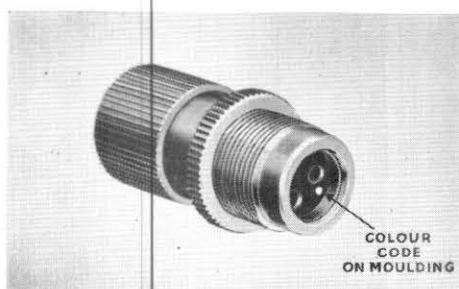
| Body Size | CONTACTS |         |         |         | ALUMINIUM<br>(Climatic and vibration proof) |               |               |             |            | STEEL<br>(Climatic and vibration proof) |              |               |             |            | A    | B     | C<br>dia. | E<br>dia.<br>Thread |
|-----------|----------|---------|---------|---------|---------------------------------------------|---------------|---------------|-------------|------------|-----------------------------------------|--------------|---------------|-------------|------------|------|-------|-----------|---------------------|
|           | 7<br>A   | 19<br>A | 37<br>A | 64<br>A | Part No.                                    |               | A/M Reference |             | Wt.<br>oz. | Part No.                                |              | A/M Reference |             | Wt.<br>oz. |      |       |           |                     |
|           |          |         |         |         | Normal                                      | Reverse       | Normal        | Reverse     |            | Normal                                  | Reverse      |               |             |            |      |       |           |                     |
|           |          |         |         |         |                                             |               |               |             |            |                                         |              |               |             |            |      |       |           |                     |
| A         | 2        | —       | —       | —       | 2CZ<br>111230                               | 2CZ<br>111448 | 5X/<br>7172   | 5X/<br>7194 | .8         | 2CZ<br>84872                            | 2CZ<br>84879 | 5X/<br>7038   | 5X/<br>7051 | 1.7        | .610 | 1.750 | .885      | .692<br>24 T.P.I.   |
|           | 4        | —       | —       | —       | 111231                                      | 111449        | 7173          | 7195        | .8         | 84873                                   | 84880        | 7039          | 7052        | 1.8        |      |       |           |                     |
|           | —        | 1       | —       | —       | 111232                                      | 111232        | 7174          | 7174        | .8         | 108943                                  | 108943       | 7127          | 7127        | 1.7        |      |       |           |                     |
| Z         | 5        | —       | —       | —       | 111233                                      | 111451        | 7175          | 7197        | 1.2        | 84874                                   | 108959       | 7128          | 7134        | 2.5        | .735 | 1.750 | 1.050     | .875<br>20 T.P.I.   |
|           | —        | 2       | —       | —       | 111436                                      | 111452        | 7176          | 7198        | 1.2        | 108944                                  | 108960       | 7044          | —           | 2.5        |      |       |           |                     |
|           | 2        | 2       | —       | —       | 111437                                      | 111453        | 7177          | 7199        | 1.2        | 108945                                  | 108961       | 7042          | 7135        | 2.5        |      |       |           |                     |
| B         | 9        | —       | —       | —       | 111234                                      | 111454        | 7178          | 7200        | 1.6        | 84875                                   | 84881        | 7045          | 7055        | 3.0        | .735 | 1.812 | 1.250     | 1.062<br>20 T.P.I.  |
|           | 2        | 4       | —       | —       | 111438                                      | 111455        | 7179          | —           | 1.7        | 108946                                  | 108962       | 7129          | 7136        | 3.1        |      |       |           |                     |
|           | —        | 4       | —       | —       | 111298                                      | 111456        | 7180          | 7326        | 1.7        | 108947                                  | 108963       | 7040          | 7053        | 3.4        |      |       |           |                     |
|           | —        | 5       | —       | —       | 111439                                      | 111457        | 7181          | —           | 1.7        | 108948                                  | 108964       | 7043          | 7137        | 3.4        |      |       |           |                     |
|           | 7        | 2       | —       | —       | 111440                                      | 111458        | 7182          | 7201        | 1.7        | 108949                                  | 108965       | 7046          | 7056        | 3.1        |      |       |           |                     |
| C         | 1        | —       | 3       | —       | 111441                                      | 111459        | 7183          | —           | 2.4        | 108950                                  | 108966       | 7041          | 7054        | 4.4        | .735 | 1.812 | 1.435     | 1.250<br>20 T.P.I.  |
|           | 12       | —       | —       | —       | 111235                                      | 111460        | 7184          | 7202        | 2.4        | 84876                                   | 84882        | 7047          | 7057        | 4.3        |      |       |           |                     |
|           | 12       | 2       | —       | —       | 111236                                      | 111461        | 7185          | 7203        | 2.4        | 84877                                   | 84883        | 7048          | 7058        | 4.4        |      |       |           |                     |
|           | —        | 6       | —       | —       | 111296                                      | 111462        | 7186          | —           | 2.4        | 108951                                  | 108967       | 7130          | —           | 4.4        |      |       |           |                     |
|           | —        | —       | 4       | —       | 111237                                      | 111463        | 7187          | 7204        | 2.4        | 108952                                  | 108968       | 7131          | 7138        | 4.4        |      |       |           |                     |
| D         | 2        | 2       | 4       | —       | 111442                                      | 111464        | 7188          | —           | 4.0        | 108953                                  | 108969       | —             | —           | 7.0        | .735 | 2.375 | 1.810     | 1.625<br>20 T.P.I.  |
|           | 4        | 7       | 2       | —       | 111443                                      | 111465        | 7189          | —           | 4.1        | 108954                                  | 108970       | 7132          | —           | 7.1        |      |       |           |                     |
|           | 6        | 2       | 2       | —       | 111444                                      | 111466        | 7190          | 7346        | 3.9        | 108955                                  | 108971       | —             | —           | 6.9        |      |       |           |                     |
|           | 12       | 4       | —       | —       | 111445                                      | 111467        | 7191          | 7327        | 4.0        | 108956                                  | 108972       | 7446          | —           | 7.0        |      |       |           |                     |
|           | 24       | 2       | —       | —       | 111238                                      | 111468        | 7192          | 7205        | 4.1        | 84878                                   | 84884        | 7049          | 7059        | 7.2        |      |       |           |                     |
|           | 4        | —       | —       | 2       | 111446                                      | 111469        | —             | 7378        | 3.6        | 108957                                  | 108973       | 7335          | —           | 6.6        |      |       |           |                     |
| E         | 20       | 4       | 3       | —       | 111447                                      | 111470        | 7193          | 7450        | 4.8        | 108942                                  | 108974       | —             | 7449        | 8.7        | .735 | 2.394 | 1.995     | 1.875<br>20 T.P.I.  |

Illustrations of the various contact arrangements are shown on the folded sheet facing page 39. Suitable mating plugs for these sockets are listed on page 8, and mating bulkhead plugs on pages 9 and 10. All dimensions are in inches.

# Plessey

## THERMO-COUPLE PLUG & SOCKET

For use in circuits employing temperature compensating leads. A limited number of contact combinations within the standard range are now obtainable, with pin and socket inserts of constantan and brass, or chromel and alumel. Due consideration will be given to special requirements of contact combinations other than those listed below. In such cases the Company's advisory service at Cheney Manor, Swindon, should be consulted.



Identification of thermo-couple contacts is by a series of grooves together with a band of colour on the conductor well of the plug pin or socket insert. Identification of the mouldings is by a similar colour code against the appropriate contact position.

Details of the identification codes are as follows:—

Chromel—Red (1 groove)      Alumel—Blue (2 grooves)  
Constantan—Yellow (3 grooves)

| Shell size & Contact Arrangement | Code | Thermo-couple Contacts                   |                        |            |                                          |                        |          | Shell | Plug Single Climatic Proof | Plug Bulkhead | Plug Bulkhead Pressurised | Socket Normal | Socket Reverse |
|----------------------------------|------|------------------------------------------|------------------------|------------|------------------------------------------|------------------------|----------|-------|----------------------------|---------------|---------------------------|---------------|----------------|
|                                  |      | Contact Designation (see Pull-out Sheet) | Current Rating (Amps.) | Material   | Contact Designation (see Pull-out Sheet) | Current Rating (Amps.) | Material |       |                            |               |                           |               |                |
| A 2/0/0                          | I    | A                                        | 7                      | Constantan | B                                        | 7                      | Brass    | Alum. | 2CZ 139864                 | —             | 2CZ 139865                | 2CZ 139866    | 2CZ 139867     |
| A 2/0/0                          | I    | A                                        | 7                      | Constantan | B                                        | 7                      | Brass    | Steel | 2CZ 139868                 | 2CZ 139869    | —                         | 2CZ 139870    | 2CZ 139871     |
| A 2/0/0                          | I    | A                                        | 7                      | Chromel    | B                                        | 7                      | Alumel   | Steel | —                          | 2CZ 139872    | —                         | 2CZ 139873    | 2CZ 139874     |
| Z 0/2/0                          | 5    | I                                        | 19                     | Constantan | 2                                        | 19                     | Brass    | Steel | 2CZ 139875                 | —             | —                         | 2CZ 139876    | —              |
| Z 0/2/0                          | 5    | I                                        | 19                     | Chromel    | 2                                        | 19                     | Alumel   | Alum. | 2CZ 139877                 | —             | 2CZ 139878                | 2CZ 139879    | 2CZ 139880     |
| Z 0/2/0                          | 5    | I                                        | 19                     | Chromel    | 2                                        | 19                     | Alumel   | Steel | 2CZ 139881                 | 2CZ 139882    | —                         | 2CZ 139883    | 2CZ 139913     |
| Z 5/0/0                          | 4    | A, C, E                                  | 7                      | Chromel    | B, D                                     | 7                      | Alumel   | Steel | 2CZ 139884                 | 2CZ 139885    | —                         | 2CZ 139886    | 2CZ 139887     |
| B 7/2/0                          | 11   | I                                        | 19                     | Chromel    | 2                                        | 19                     | Alumel   | Steel | 2CZ 139888                 | —             | —                         | 2CZ 139889    | —              |
|                                  |      | A,B,C,D,E,F,G                            | 7                      | Brass      |                                          |                        |          |       |                            |               |                           |               |                |
| B 0/4/0                          | 9    | I, 3                                     | 19                     | Constantan | 2, 4                                     | 19                     | Brass    | Steel | 2CZ 139890                 | 2CZ 139891    | —                         | 2CZ 139892    | 2CZ 139893     |
| B 0/4/0                          | 9    | I, 3                                     | 19                     | Chromel    | 2, 4                                     | 19                     | Alumel   | Steel | 2CZ 139894                 | 2CZ 139895    | —                         | 2CZ 139896    | 2CZ 139897     |
| B 0/4/0                          | 9    | I, 3                                     | 19                     | Constantan | 2, 4                                     | 19                     | Brass    | Alum. | —                          | 2CZ 139898    | 2CZ 139899                | 2CZ 139900    | 2CZ 139901     |
| C 0/0/4                          | 16   | I, 3                                     | 37                     | Chromel    | 2, 4                                     | 37                     | Alumel   | Steel | 2CZ 139902                 | 2CZ 139903    | —                         | 2CZ 139904    | 2CZ 139905     |
| C 12/0/0                         | 13   | A,C,E,G,J,L                              | 7                      | Constantan | B,D,F,H,K,M                              | 7                      | Brass    | Alum. | 2CZ 139906                 | 2CZ 139907    | 2CZ 139908                | 2CZ 139909    | 2CZ 139910     |
| E 20/4/3                         | 23   | M,O,Q,S,U,D                              | 7                      | Constantan | A,B,C,E,F,G,H,J,K,L,N,P,R,T              | 7                      | Brass    | Steel | 2CZ 139911                 | —             | —                         | 2CZ 139912    | —              |
|                                  |      | 1, 2, 3, 4                               | 19                     |            | 5, 6, 7                                  | 37                     | Brass    |       |                            |               |                           |               |                |

\* These codes represent the various contact arrangements that are illustrated on the folded sheet facing page 39.

NOTE: It is recommended that all thermo-couple plug pin and socket inserts are soldered notwithstanding the fact that in certain instances they are supplied to a design which permits crimping.

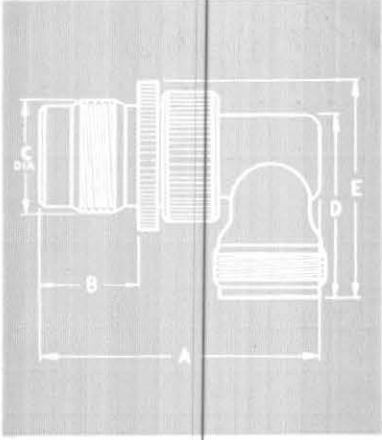
# Plessey

## SPECIAL PURPOSE PLUGS & SOCKETS

*These items are supplied to special order only.*

### RIGHT-ANGLE SHORT-REACH SOCKET ASSEMBLY

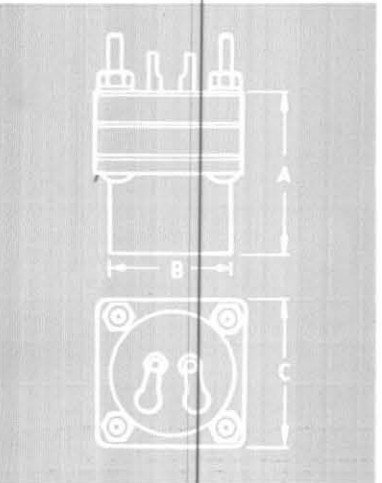
Specially designed for easy withdrawal in cramped conditions. It overcomes the difficulties of using straight-outlet sockets where space is limited. The socket shell is aluminium or steel and the elbow assembly is fabricated in brass and finished in dull nickel plate. Special soldered-type socket inserts are incorporated.



| Body Size | Shell | Contact Combination | Part No.   | A/M Ref. | A     | B    | C Dia. | D     | E     | Weight oz. | Suitable Mating Plug |
|-----------|-------|---------------------|------------|----------|-------|------|--------|-------|-------|------------|----------------------|
| A         | Alum. | Two 7A              | 2CZ 138244 | —        | 1.715 | .609 | .692   | 1.120 | 1.332 |            | 2CZ 111223           |
| A         | Alum. | Four 7A             | 2CZ 138245 | —        | 1.715 | .609 | .692   | 1.120 | 1.332 |            | 2CZ 111399           |
| A         | Steel | Two 7A              | 2CZ 138243 | —        | 1.715 | .609 | .692   | 1.120 | 1.332 |            | 2CZ 108906           |
| A         | Steel | Four 7A             | 2CZ 111242 | —        | 1.715 | .609 | .692   | 1.120 | 1.332 |            | 2CZ 84870            |

### PLUG (DETACHABLE LEADS)

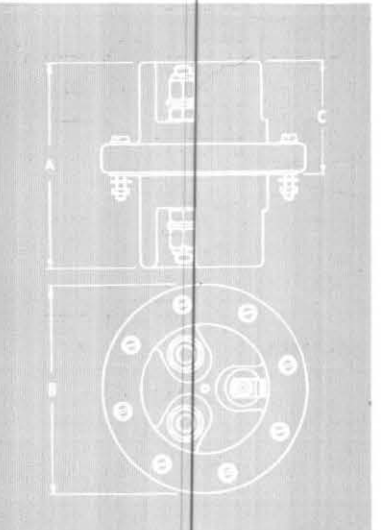
For use on electric motors and other equipment where only short leads are required behind the plug. The pins are removable from the mouldings for easy wiring before fitting the plug, and they can be withdrawn from the moulding with the leads still attached. Supplied in one size only, with shell in aluminium or steel and with soldered connections.



| Body Size | Shell | Contact Combination | Part No.   | A/M Ref. | A     | B    | C    | Weight oz. | Suitable Mating Socket |
|-----------|-------|---------------------|------------|----------|-------|------|------|------------|------------------------|
| A         | Alum. | Two 7A              | 2CZ 140052 | —        | 1.019 | .784 | .937 |            | 2CZ 111230             |
| A         | Steel | Two 7A              | 2CZ 140053 | —        | 1.019 | .784 | .937 |            | 2CZ 84872              |

### HEAVY DUTY PRESSURISED BULKHEAD CONNECTOR BLOCK

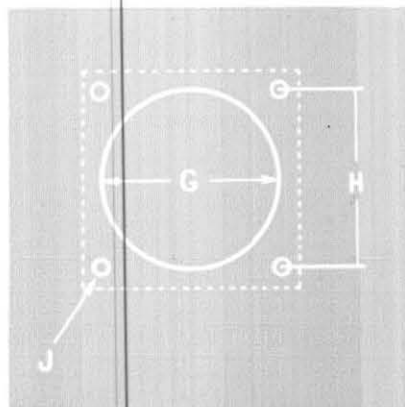
This connector block is fully pressurised at 15 lb. for use at pressure cabin bulkheads wherever heavy duty leads must be broken. For use with crimped or soldered lugs, and available with end covers, if required.



| Connections         | Part No. | A/M Ref. | A    | B Dia. | C     | Weight oz. | Cover    |          |
|---------------------|----------|----------|------|--------|-------|------------|----------|----------|
|                     |          |          |      |        |       |            | Part No. | A/M Ref. |
| Three 200A          | CZ 51091 | 5H/112   | 3.62 | 3.62   | 1.937 | 19.6       | Z 51094  | 5H/111   |
| Two 200A<br>One 19A | CZ 51097 | 5H/110   | 3.62 | 3.62   | 1.937 | 18.2       | Z 51094  | 5H/111   |

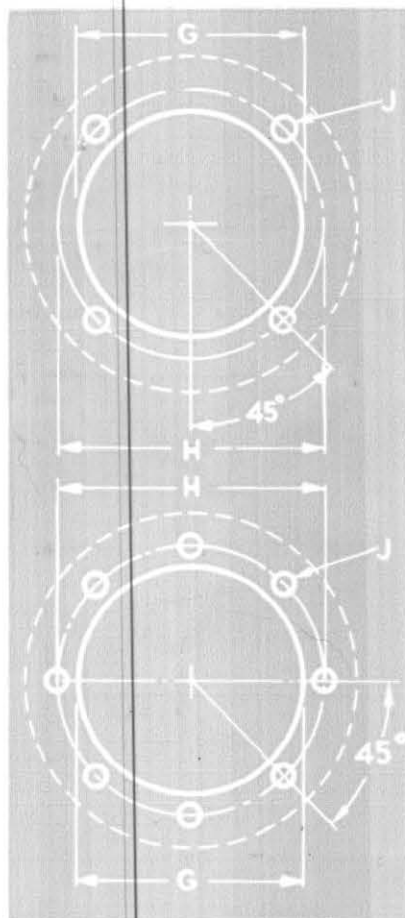
Add .125" to each end of dimension "A" if covers are used. Panel piercing details are given on page 14. All dimensions are in inches.

## PANEL PIERCING DETAILS



### CLIMATIC PROOF SINGLE AND BULKHEAD PLUGS

| Body Size | G dia. | H sq. crs. | J dia. | Recommended minimum distance between centres of similar size plugs |
|-----------|--------|------------|--------|--------------------------------------------------------------------|
| A         | .797   | .720       | .120   | 1.125                                                              |
| Z         | .953   | .875       | .120   | 1.250                                                              |
| B         | 1.171  | 1.000      | .120   | 1.500                                                              |
| C         | 1.359  | 1.187      | .120   | 1.625                                                              |
| D         | 1.734  | 1.469      | .120   | 2.000                                                              |
| E         | 1.984  | 1.687      | .152   | 2.250                                                              |



### PRESSURISED BULKHEAD PLUGS

| Body Size | Fixing holes | G dia. | H P.C.D. | J dia. | Recommended minimum distance between centres of similar size plugs |
|-----------|--------------|--------|----------|--------|--------------------------------------------------------------------|
| A         | 4            | .797   | 1.018    | .120   | 1.625                                                              |
| Z         | 4            | .953   | 1.237    | .120   | 1.875                                                              |
| B         | 8            | 1.171  | 1.414    | .120   | 2.062                                                              |
| C         | 8            | 1.359  | 1.678    | .120   | 2.375                                                              |
| D         | 8            | 1.734  | 2.076    | .120   | 2.750                                                              |
| E         | 8            | 1.984  | 2.386    | .152   | 3.125                                                              |

### HEAVY DUTY BULKHEAD CONNECTOR BLOCK

| G dia. | H P.C.D. | J dia. | Recommended minimum distance between centres |
|--------|----------|--------|----------------------------------------------|
| 2.380  | 3.062    | .152   | 3.687                                        |

All dimensions are in inches.

## SPARE PARTS FOR STANDARD PLUGS & SOCKETS

FOR AIR MINISTRY REFERENCE NUMBERS REFER TO PAGES 29 TO 39

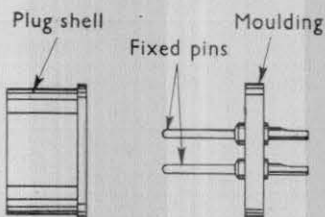
| Description                 | For Assemblies listed on page | Material                      | Part Numbers |                         |                         |                         |             |             |
|-----------------------------|-------------------------------|-------------------------------|--------------|-------------------------|-------------------------|-------------------------|-------------|-------------|
|                             |                               |                               | A            | Z                       | B                       | C                       | D           | E           |
| Plug Shell                  | 8, 9 & 12                     | Aluminium                     | Z 49249      | Z 49251<br>*Z 49252     | Z 24923<br>*Z 24932     | Z 24924<br>*Z 24933     | Z 24925     | Z 49278     |
|                             |                               | Steel                         | 2Z 109905    | 2Z 111186<br>*2Z 109933 | 2Z 111189<br>*2Z 109906 | 2Z 109908<br>*2Z 109907 | 2Z 109909   | 2Z 111184   |
| Plug Shell Gasket           | 8, 9 & 12                     | Silicone Rubber               | 2Z 84911/A   | 2Z 84911/Z              | 2Z 84911/B              | 2Z 84911/C              | 2Z 84911/D  | 2Z 84911/E  |
| Plug Moulding Gasket        | 8, 9 & 12                     | Silicone Rubber               | 2Z 84912/A   | 2Z 84912/Z              | 2Z 84912/B              | 2Z 84912/C              | 2Z 84912/D  | 2Z 84912/E  |
| Plug Seating Gasket         | 8, 9 & 12                     | Silicone Rubber               | 2Z 85140/A   | 2Z 85140/Z              | 2Z 85140/B              | 2Z 85140/C              | 2Z 85140/D  | 2Z 85140/E  |
| Reverse Plug Seating Gasket | 8, 9 & 12                     | Silicone Rubber               | 2Z 110061/A  | 2Z 110061/Z             | 2Z 110061/B             | 2Z 110061/C             | 2Z 110061/D | 2Z 110061/E |
| Socket Shell                | 11 & 12                       | Aluminium                     | Z 49250      | Z 49253                 | Z 49803                 | Z 49804                 | Z 24915     | Z 49806     |
|                             |                               | Steel                         | 2Z 109910    | 2Z 109911               | 2Z 109912               | 2Z 109913               | 2Z 109914   | 2Z 111188   |
| Circlip                     | 11 & 12                       | Steel                         | 2Z 110344    | 2Z 110343               | 2Z 110345               | 2Z 110346               | 2Z 110347   | 2Z 111197   |
| Insulating Ring             | 11 & 12                       | Glass Fibre (P.T.F.E. Coated) | 2Z 84917     | 2Z 84918                | 2Z 84919                | 2Z 84920                | 2Z 84921    | 2Z 111190   |
| Insulating Sleeve           | 11 & 12                       | Glass Fibre (P.T.F.E. Coated) | 2Z 84922     | 2Z 84923                | 2Z 84924                | 2Z 84925                | 2Z 84926    | 2Z 111191   |
| Socket Ferrule Gasket       | 11 & 12                       | Silicone Rubber               | 2Z 84914/A   | 2Z 84914/Z              | 2Z 84914/B              | 2Z 84914/C              | 2Z 84914/D  | 2Z 84914/E  |
| †Socket Sealing Gasket      | 11 & 12                       | Synthetic Rubber              | Z 23201/A    | Z 23201/Z               | Z 23201/B               | Z 23201/C               | Z 23201/D   | Z 23201/E   |
| Thrust Washer               | 11 & 12                       | Steel                         | 2Z 109947/A  | 2Z 109947/Z             | 2Z 109947/B             | 2Z 109947/C             | 2Z 109947/D | 2Z 109947/E |
| Packing Cap (Plugs)         | 8, 9, 10 & 12                 | Waxed Cardboard               | Z 17830      | Z 17835                 | Z 17831                 | Z 17832                 | Z 17833     | Z 17834     |
| Packing Cap (Sockets)       | 11 & 12                       | Waxed Cardboard               | Z 17836      | Z 17841                 | Z 17837                 | Z 17838                 | Z 17839     | Z 17840     |

\* Required on plugs containing all 7 amp. pins (codes 4, 7 and 13)

| Contact           | For Assemblies on page | Material | 7 amp.     | 7 amp. (Special) | 19 amp.    | 37 amp.    | 64 amp.    |
|-------------------|------------------------|----------|------------|------------------|------------|------------|------------|
| Plug Pin          | 8                      | Brass    | Z 27323    | Z 28146          | Z 28147    | 2Z 138788  | Z 53006    |
| Bulkhead Plug Pin |                        | Brass    | Z 19269    | Z 19273          | Z 19270    | Z 19271    | Z 19272    |
| Socket Insert     | 11                     | Brass    | 2CZ 109944 | 2CZ 109946       | 2CZ 109945 | 2CZ 138789 | 2CZ 111902 |

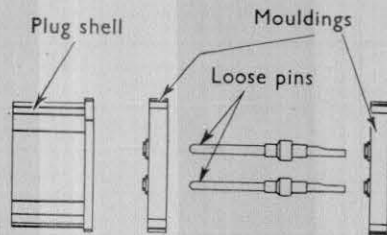
†The Socket Sealing Gasket will be supplied with all sockets for use should the socket be required to mate with earlier versions of the Standard plugs. When mating assemblies are both of the uprated version, the gasket should be discarded.

## EVOLUTION OF THE SINGLE PLUG



### STAGE 1 (Fixed Pin)

The original design of the "Breeze" single plug consisted of a base of phenolic material with the plug pins moulded in position. The plug shell was machined from bar and fixing bolt holes plain drilled. Suitable for soldered connection only.

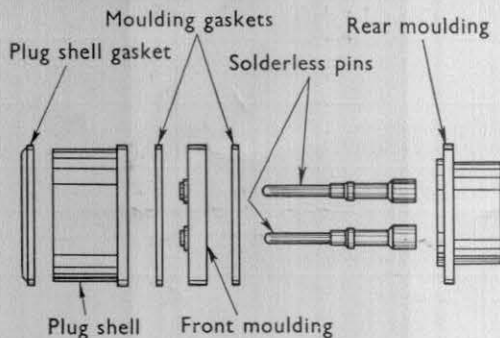


### STAGE 2 (Loose Pin)

Two identical mouldings introduced each with a stepped creepage barrier round the base of each pin to increase distance without altering contact centres. The plug pins were sandwiched between the two mouldings and retained in position by the fixing bolts fitting the tapped holes in the plug shell. Suitable for soldered connection only.

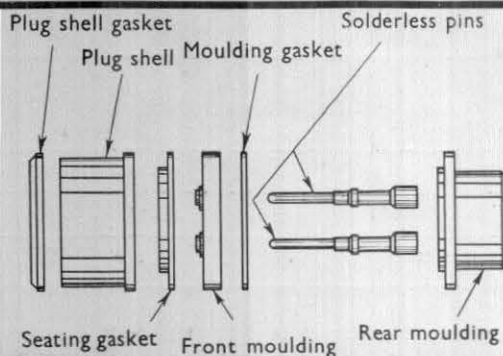
### STAGE 3 (Climatic Proof)

The introduction of two rubber moulding gaskets and the plug shell gasket, designed to make the plug proof against all climatic conditions other than those of full exposure. Introduction also of the redesigned plug pin to permit a soldered or crimped connection and an extended rear moulding to shroud the connection made.



### STAGE 4 (Up-rated Type)

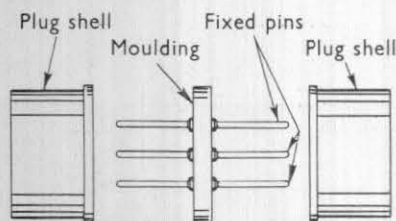
Current production version. The introduction of the up-rated range to operate between ambient temperatures of  $-65^{\circ}\text{C}$ . and  $+150^{\circ}\text{C}$ . Design of the plug shell and plug pins remains unchanged, but front and rear mouldings now manufactured from alkyd. Plug shell gasket and moulding gasket manufactured from silicone rubber. A modified seating gasket in silicone rubber introduced to accept the mating rim of the socket shell. A brass backing plate behind rear moulding to be introduced.



## EVOLUTION OF THE BULKHEAD PLUG

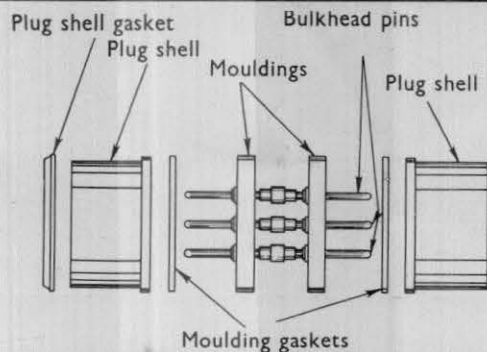
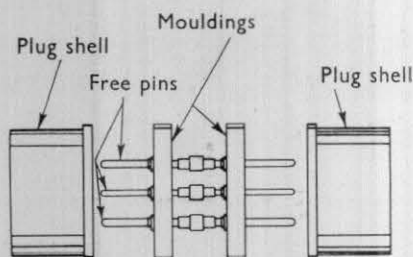
### STAGE 1 (Fixed Pin)

The original design of the "Breeze" bulkhead plug, consisting of one moulding in a phenolic material with the special plug pins moulded into position.



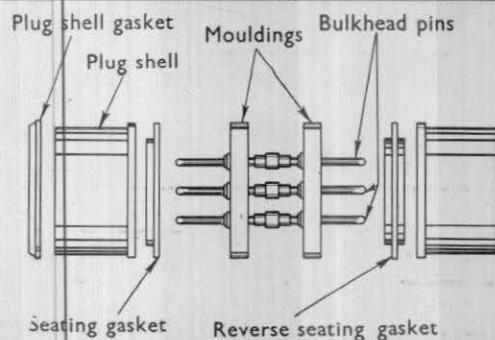
### STAGE 2 (Loose Pin)

Two identical mouldings introduced, each with a stepped creepage barrier round the base of the plug pins to increase creepage distance without altering pin centres. The bulkhead plug pins being sandwiched in position between the two mouldings.



### STAGE 3 (Climatic Proof)

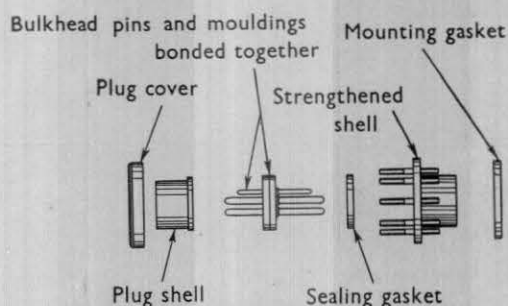
The introduction of rubber moulding gaskets and plug shell gasket, designed to make the connector proof against all climatic conditions other than those of full exposure.



### STAGE 4 (Up-rated Type)

Current production version. The introduction of the uprated range designed to operate between ambient temperatures of  $-65^{\circ}\text{C}$ . and  $+150^{\circ}\text{C}$ . Design of the plug shells and plug pins remains unchanged but the mouldings now manufactured from alkyd. Plug shell gasket now manufactured from silicone rubber. Two types of modified seating gaskets in silicone rubber introduced to accept the mating rims of the connected socket shells.

## EVOLUTION OF THE PRESSURISED BULKHEAD PLUG



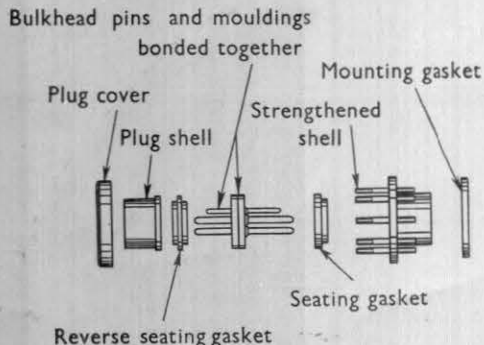
### STAGE 1 (Pressurised Type)

Specially designed for use in pressurised aircraft cabins and effectively sealed against a pressure difference of 15 lb. per square inch. A specially designed and strengthened shell containing two identical mouldings of a phenolic material with plug pins bonded into position. Four fixing bolts are provided for Sizes A and Z whilst eight are provided for the remaining sizes.

### STAGE 2 (Up-rated Type)

Current production version. Similar to Stage 1, but with the two mouldings manufactured from alkyd. Design of the shells and plug pins virtually unchanged but the mounting gasket manufactured from silicone rubber.

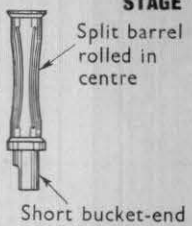
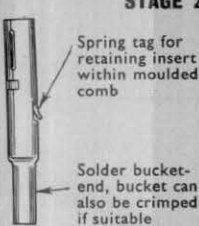
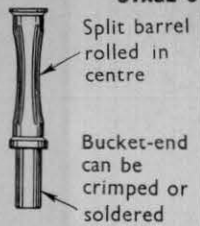
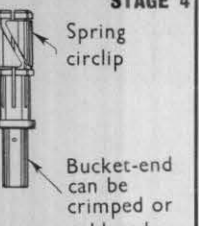
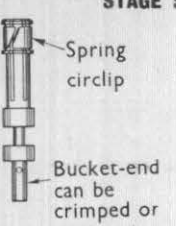
Two types of modified seating gaskets in silicone rubber introduced to accept the leading edges of the mating sockets.



## CONTACT DESIGN

On several occasions during its life to date, different types of socket inserts have been introduced consistent with the general evolution of the design of the Standard connector. As certain of these contacts may still be encountered on old equipment, a brief description and illustration of each type is set out below and should prove of assistance in identification.

In order to retain the feature of interchangeability of sockets, the dimensions of the mating portions of the contacts have been maintained or improved to permit correct connection with any plug pin of equivalent rating.

| Typical Illustrations of Socket Inserts | STAGE 1                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                       | STAGE 2                                                                                                                                                                                                                               |                                                                                                                                                                                                                 | STAGE 3                                                                                                                                                                                                          |               | STAGE 4    |               | STAGE 5    |               |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|---------------|------------|---------------|
|                                         |  <p>Split barrel rolled in centre</p> <p>Short bucket-end for soldering only</p> <p><b>ORIGINAL TYPE</b><br/>For use with Pressed Comb</p> |  <p>Spring tag for retaining insert within moulded comb</p> <p>Solder bucket-end, bucket can also be crimped if suitable sleeve is used</p> <p><b>ROLLED TYPE</b><br/>For use with Moulded Comb</p> |  <p>Split barrel rolled in centre</p> <p>Bucket-end can be crimped or soldered</p> <p><b>SOLID-END CRIMP TYPE</b><br/>For use with Pressed Comb</p> |  <p>Spring circlip</p> <p>Bucket-end can be crimped or soldered</p> <p><b>CIRCLIP TYPE</b><br/>For use with Pressed Comb</p> |  <p>Spring circlip</p> <p>Bucket-end can be crimped or soldered</p> <p><b>CIRCLIP TYPE</b><br/>For use with Moulded Comb</p> |               |            |               |            |               |
| Pin Rating (Amps)                       | Part No.                                                                                                                                                                                                                     | A/M Reference                                                                                                                                                                                                                                                                         | Part No.                                                                                                                                                                                                                              | A/M Reference                                                                                                                                                                                                   | Part No.                                                                                                                                                                                                         | A/M Reference | Part No.   | A/M Reference | Part No.   | A/M Reference |
| 7                                       | Z 1340                                                                                                                                                                                                                       | —                                                                                                                                                                                                                                                                                     | Z 27330                                                                                                                                                                                                                               | 5X/3237                                                                                                                                                                                                         | Z 56404                                                                                                                                                                                                          | 5X/6924       | 2CZ 110175 | 5X/7329       | 2CZ 109944 | 5X/7516       |
| 7 Special                               | Z 1590                                                                                                                                                                                                                       | —                                                                                                                                                                                                                                                                                     | Z 28143                                                                                                                                                                                                                               | 5X/3239                                                                                                                                                                                                         | Z 56480                                                                                                                                                                                                          | 5X/6949       | 2CZ 110176 | 5X/7330       | 2CZ 109946 | 5X/7517       |
| 19                                      | Z 1341                                                                                                                                                                                                                       | —                                                                                                                                                                                                                                                                                     | Z 28144                                                                                                                                                                                                                               | 5X/3241                                                                                                                                                                                                         | Z 56405                                                                                                                                                                                                          | 5X/6950       | 2CZ 109945 | 5X/7331       | 2CZ 109945 | 5X/7331       |
| 37                                      | Z 1342                                                                                                                                                                                                                       | —                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                       |                                                                                                                                                                                                                 | Z 60366                                                                                                                                                                                                          | 5X/6951       | 2CZ 110292 | 5X/7332       | 2CZ 138789 | 5X/7514       |
| 64                                      | Z 1462                                                                                                                                                                                                                       | —                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                       |                                                                                                                                                                                                                 | CZ 56408                                                                                                                                                                                                         | 5X/6400       | 2CZ 111902 | 5X/7520       | 2CZ 111902 | 5X/7520       |

The illustrations above show the main types of Inserts only. Certain modified forms of these Inserts existed, e.g., rolled inserts having parallel barrels were made up in 37 and 64 amp. ratings, but were replaced by the solid and crimp type inserts.

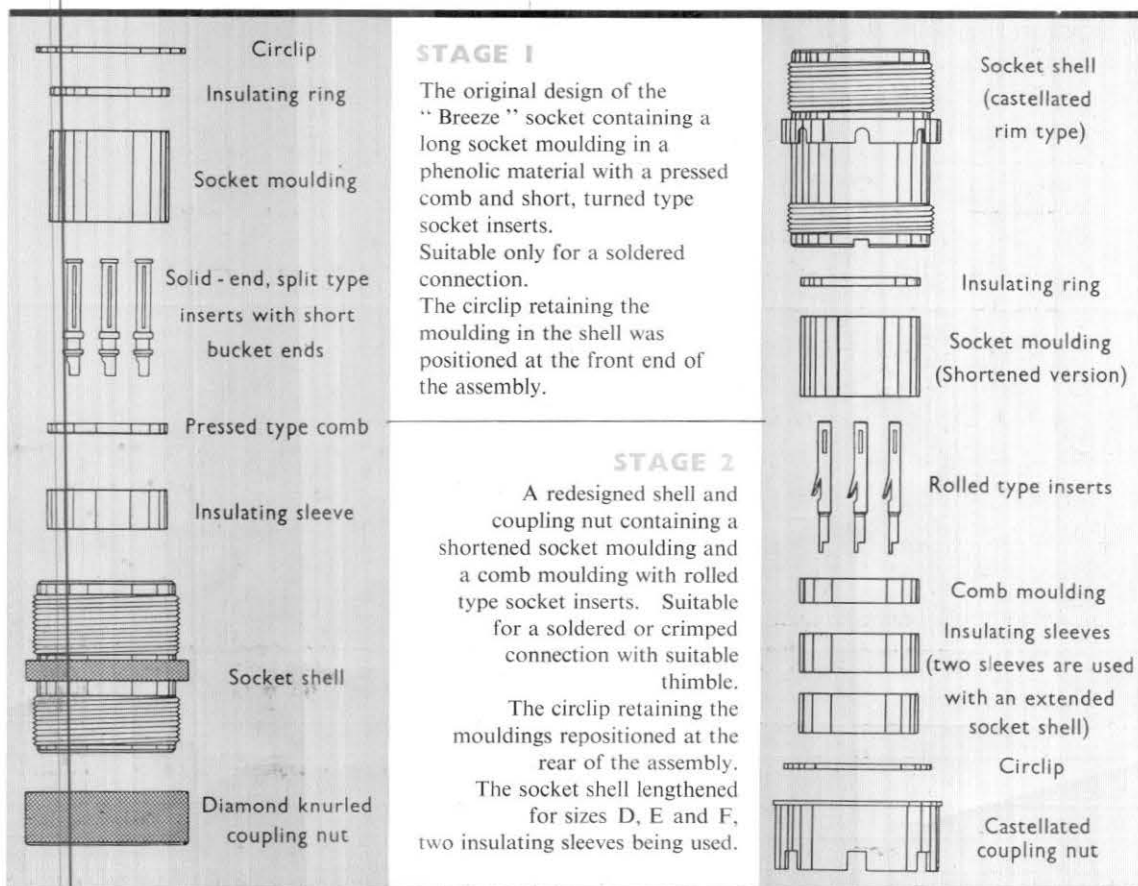
**STAGE 1** was the original design for use with the pressed comb and suitable only for a soldered connection. **STAGE 2** was introduced during World War II due to the shortage of machining capacity and was redesigned to be a simple press operation. Although ideally suitable for a soldered connection, a crimped joint could be made by using a suitable thimble.

**STAGE 3** was the re-introduction of the original type of contact with the solid ring entry but with modification to length to permit a crimped or soldered joint without the use of thimbles.

**STAGES 4 and 5** are the two designs which are in current production today and are a much improved design incorporating a circlip of beryllium copper which ensures a perfect contact at all times.

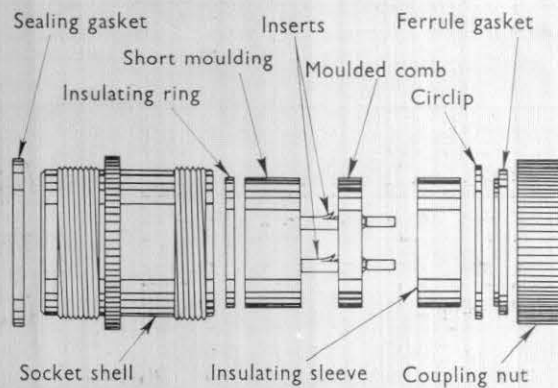
The illustration of Stage 5 is applicable to the 7 amp. and 7 amp. special contacts only. All are suitable for a soldered or crimped joint without the use of thimbles.

## EVOLUTION OF THE STANDARD SOCKET

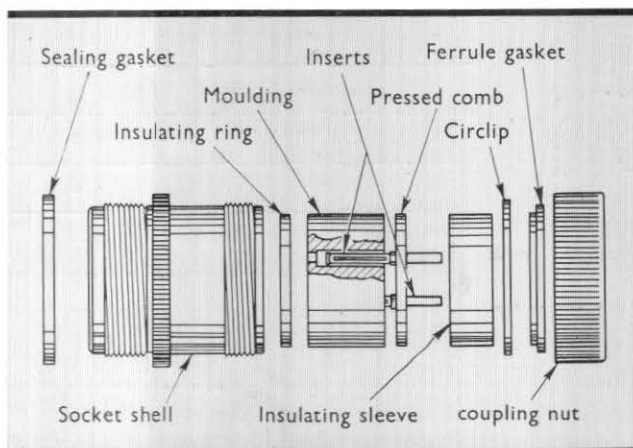


### STAGE 3

Socket shell and coupling nut modified to give a straight knurl for tightening. Introduction of the socket sealing gasket and ferrule gasket. Socket moulding and comb moulding unchanged for combinations using 7 and 19 amp. inserts only, together with rolled type socket inserts, suitable for a soldered or crimped connection with a suitable thimble. For combinations containing 37 and 64 amp. inserts, the moulding and comb were as stage 4.



## EVOLUTION OF THE STANDARD SOCKET

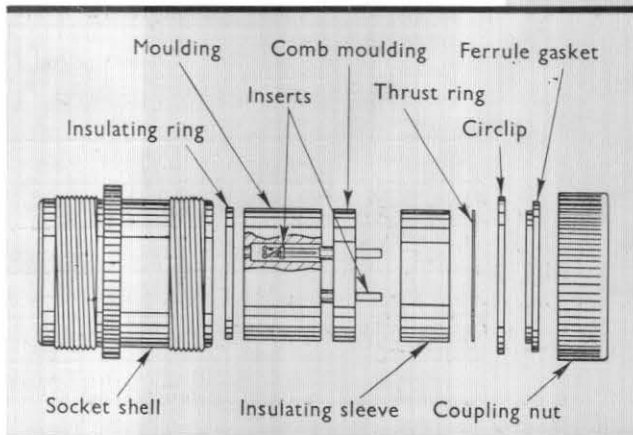
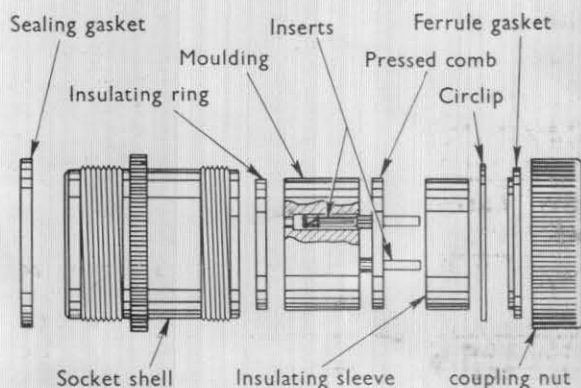


### STAGE 4

The introduction of the vibration-proof socket insert suitable for a soldered or crimped connection without the use of a thimble. Reintroduction of the pressed comb in place of the comb moulding. Wire locking holes provided in the coupling nut.

### STAGE 5

The introduction of the improved circlip type socket insert—designed to eliminate defects discovered in contact mating. All other items identical to Stage 4 design. Air Ministry reference number unchanged but allocated the suffix “/B”.



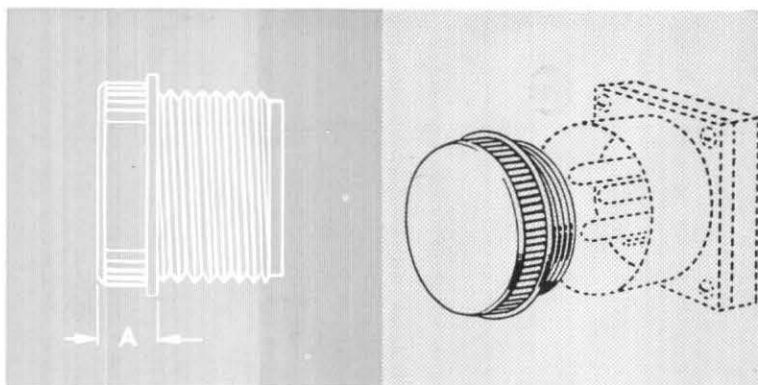
### STAGE 6

Current production version. The introduction of the uprated range to operate between ambient temperatures of  $-65^{\circ}\text{C}$ . and  $+150^{\circ}\text{C}$ . Socket moulding and comb moulding manufactured from alkyd. Insulating sleeve and washer manufactured from glass fibre and P.T.F.E. coated. A steel thrust washer introduced. Ferrule gasket manufactured from silicone rubber. The socket sealing gasket no longer supplied as a fitment, but enclosed with the socket for use when mating with any obsolete type of plug.

## PLUG & SOCKET ACCESSORIES

### PLUG SEALING CAPS (Bakelite)

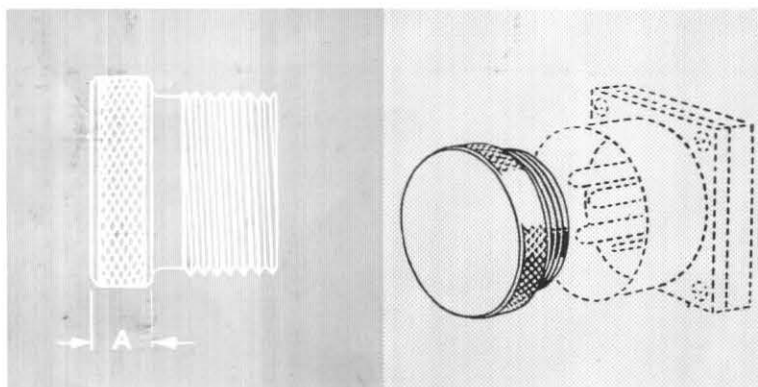
Designed to prevent the ingress of dust or moisture when the plug is not in use.



| Size | Part No. | A/M Ref. | A    | Weight oz. |
|------|----------|----------|------|------------|
| A    | Z 22164  | 5X/1963  | .250 | .11        |
| Z    | Z 22165  | 5X/1964  | .250 | .16        |
| B    | Z 22166  | 5X/1965  | .250 | .22        |
| C    | Z 22167  | 5X/1966  | .250 | .25        |
| D    | Z 22168  | 5X/1967  | .250 | .39        |
| E    | Z 23276  | 5X/2185  | .250 | .48        |

### PLUG SCREENING CAPS (Aluminium)

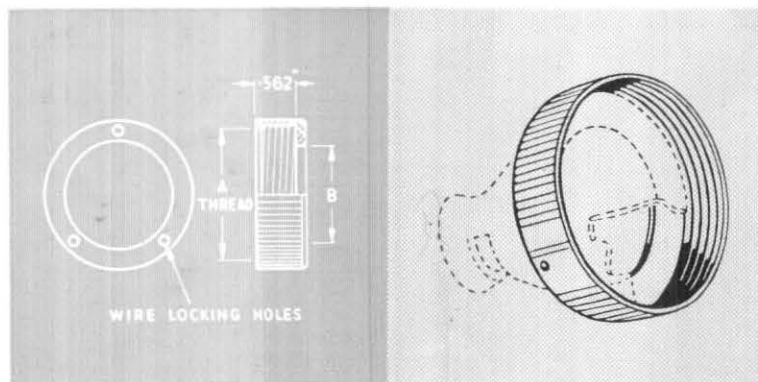
Designed to prevent the ingress of dust or moisture when the plug is not in use.



| Size | Part No. | A/M Ref. | A    | Weight oz. |
|------|----------|----------|------|------------|
| A    | Z 13031  | 5X/1097  | .250 | .20        |
| Z    | Z 13106  | 5X/1088  | .250 | .29        |
| B    | Z 13032  | 5X/1089  | .250 | .37        |
| C    | Z 13033  | 5X/1575  | .250 | .46        |

### COUPLING NUTS (Aluminium or Steel)

Designed for use with sockets, plug shrouds, elbow or tee assemblies and used for clamping all forms of cable fittings into position.



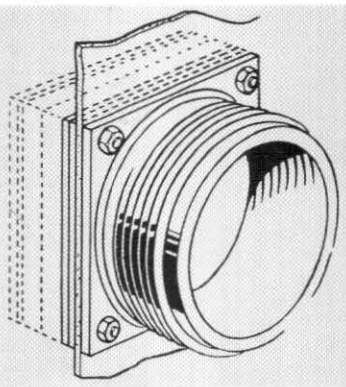
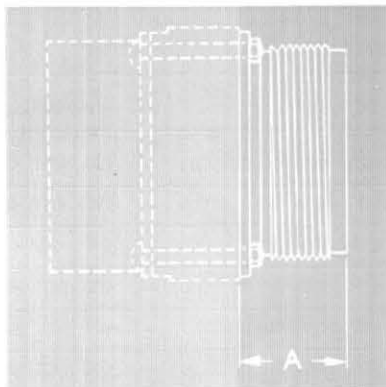
| Size | ALUMINIUM |          |            | STEEL (Nickel Plated) |          |            | A               | B     |
|------|-----------|----------|------------|-----------------------|----------|------------|-----------------|-------|
|      | Part No.  | A/M Ref. | Weight oz. | Part No.              | A/M Ref. | Weight oz. |                 |       |
| A    | Z 61535   | 5X/6312  | .11        | 2Z 109915             | —        | .34        | .692x24 T.P.I.  | .585  |
| Z    | Z 61536   | 5X/6500  | .18        | 2Z 109916             | —        | .53        | .875x20 T.P.I.  | .723  |
| B    | Z 61537   | 5X/6405  | .21        | 2Z 109917             | —        | .65        | 1.062x20 T.P.I. | .877  |
| C    | Z 61538   | 5X/6424  | .26        | 2Z 109918             | —        | .78        | 1.250x20 T.P.I. | 1.022 |
| D    | Z 61539   | 5X/6425  | .33        | 2Z 109919             | —        | .99        | 1.625x20 T.P.I. | 1.440 |
| E    | Z 61540   | 5X/6820  | .42        | 2X 111196             | —        | 1.27       | 1.875x20 T.P.I. | 1.567 |

All dimensions are in inches.

## PLUG & SOCKET ACCESSORIES

### PLUG SHROUDS (Aluminium or steel)

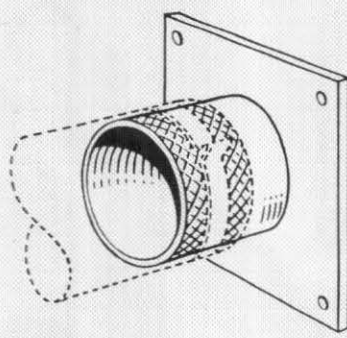
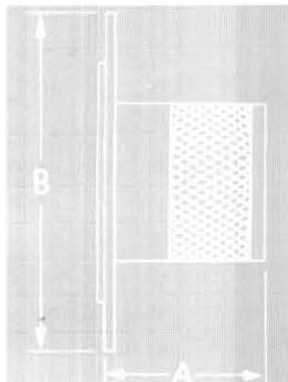
Designed for mounting at the rear of single plugs for the purpose of attaching cable fittings.



| Size | ALUMINIUM |          |         | STEEL<br>(Nickel Plated) |          |         | A     |
|------|-----------|----------|---------|--------------------------|----------|---------|-------|
|      | Part No.  | A/M Ref. | Wt. oz. | Part No.                 | A/M Ref. | Wt. oz. |       |
| A    | Z 1499    | 5X/282   | -2      | 2Z 139928                | 5X/—     | -3      | -750  |
| Z    | 1500      | 283      | -3      | 139929                   | —        | -8      | -750  |
| B    | 1275      | 284      | -3      | 139930                   | —        | -9      | -750  |
| C    | 1688      | 285      | -4      | 139931                   | —        | 1-3     | -750  |
| D    | 1690      | 286      | -6      | 139932                   | —        | 1-7     | -750  |
| E    | 13299     | 287      | -8      | 139933                   | —        | 2-3     | 1-375 |

### FERRULE PLATE ASSEMBLY (Brass)

Designed for use with plastic tubing where cables enter a panel or junction box. The 4 fixing holes and spigot on the leading face being designed to fit panel piercings of a single plug of similar size.

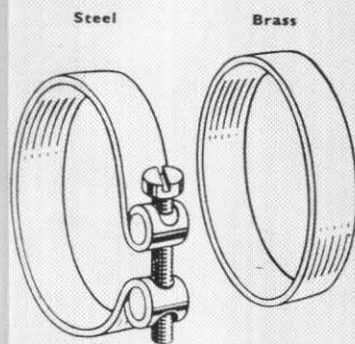
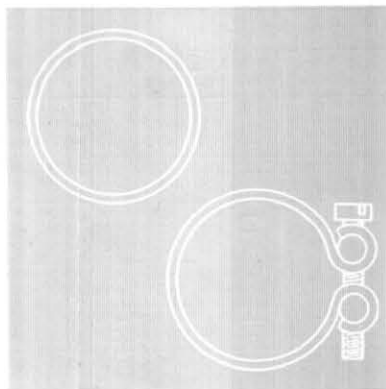


| Size | Part No. | A/M Ref. | Ferrule size | Tubing size | A     | B     | Wt. oz. | Clamp Ring | A/M Ref. |
|------|----------|----------|--------------|-------------|-------|-------|---------|------------|----------|
| A    | CZ 24626 | 5X/6850  | A            | 3/8         | -722  | 1-000 | -27     | Z 18501/A  | 5X/1529  |
|      | CZ 24628 | 6631     | Z            | 1/2         | -909  | 1-000 | -45     | CZ 23144/Z | 6440     |
| Z    | CZ 24632 | 6603     | Z            | 1/2         | -722  | 1-187 | -35     | CZ 23144/Z | 6440     |
|      | CZ 24634 | 6797     | B            | 5/8         | -909  | 1-187 | -54     | CZ 23144/B | 6488     |
| B    | CZ 24636 | —        | Z            | 1/2         | -909  | 1-312 | -39     | CZ 23144/Z | 6440     |
|      | CZ 24638 | 6604     | B            | 5/8         | -722  | 1-312 | -42     | CZ 23144/B | 6488     |
|      | CZ 24640 | 6605     | C            | 3/4         | -909  | 1-312 | -73     | CZ 23144/C | 6489     |
|      | CZ 24642 | —        | B            | 5/8         | -909  | 1-500 | -46     | CZ 23144/B | 6488     |
| C    | CZ 24644 | 6177     | C            | 3/4         | -722  | 1-500 | -83     | CZ 23144/C | 6489     |
|      | CZ 24646 | 6178     | D            | 1           | 1-026 | 1-500 | 1-00    | CZ 23144/D | 3143     |
|      | CZ 24648 | 6628     | C            | 3/4         | -909  | 1-812 | -60     | CZ 23144/C | 6489     |
| D    | CZ 24650 | 6180     | D            | 1           | -839  | 1-812 | 1-35    | CZ 23144/D | 3143     |
|      | CZ 24652 | —        | E            | 1-1/4       | 1-026 | 1-812 | 1-12    | CZ 23144/E | 6490     |
|      | CZ 24654 | —        | D            | 1           | 1-026 | 2-06  | 2-0     | CZ 23144/D | 3143     |
| E    | CZ 24656 | 6606     | E            | 1-1/4       | -839  | 2-06  | 1-6     | CZ 23144/E | 6490     |
|      | CZ 24658 | —        | dia. 1-525   | 1-1/2       | 1-151 | 2-06  | 1-75    | CZ 23144/F | —        |

Panel piercing details are shown on page 14. Dimension "A" Tolerance  $\pm .064$ ".  
All these assemblies are electro-tin finish except CZ 24634 and CZ 24640 which are dull nickel plate.

### CLAMP RINGS

Designed for clamping plastic tubing to ferrules or ferrule plate assemblies.



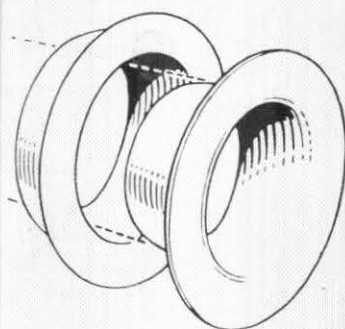
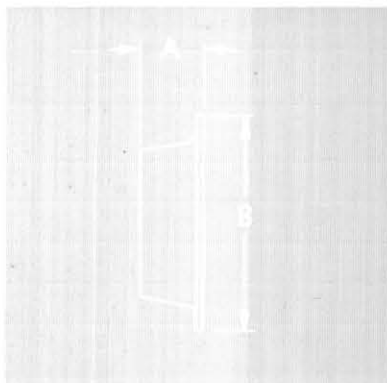
| Size       | PLAIN TYPE (BRASS)<br>(Cadmium Plated) |          |         | SCREW TYPE (STEEL)<br>(Cadmium Plated) |          |         |
|------------|----------------------------------------|----------|---------|----------------------------------------|----------|---------|
|            | Part No.                               | A/M Ref. | Wt. oz. | Part No.                               | A/M Ref. | Wt. oz. |
| A          | Z 18501/A                              | 5X/1529  | -04     | —                                      | —        | —       |
| Z          | Z 18501/Z                              | 5X/1530  | -07     | CZ 23144/Z                             | 5X/6440  | -24     |
| B          | Z 18501/B                              | 5X/1531  | -07     | CZ 23144/B                             | 5X/6488  | -25     |
| C          | Z 18501/C                              | 5X/1532  | -09     | CZ 23144/C                             | 5X/6489  | -26     |
| D          | Z 18501/D                              | 5X/1533  | -14     | CZ 23144/D                             | 5X/3143  | -30     |
| E          | Z 18501/E                              | 5X/1534  | -18     | CZ 23144/E                             | 5X/6490  | -35     |
| Dia. 1-525 | Z 18501/F                              | 5X/1535  | -23     | CZ 23144/F                             | —        | -38     |

Clamp rings are used in conjunction with ferrules for plastic tubing, see page 24. Dimensions are given in inches.

## PLUG & SOCKET ACCESSORIES

### INNER AND OUTER FERRULES (Brass—nickel plated)

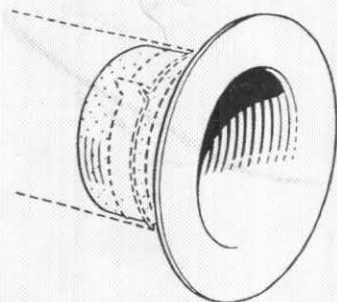
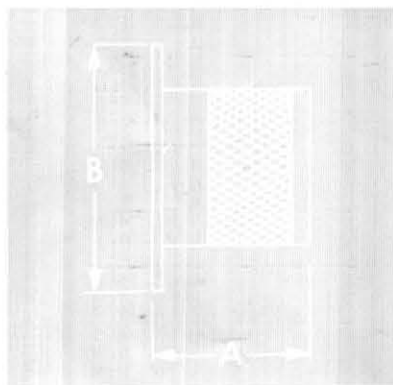
Designed to form a sound joint when using plastic tubing, loose braid or conduit.  
May be used on a socket or with a plug shroud and coupling nut.



| Size | INNER          |          |       |       |         | OUTER         |          |       |       |         |
|------|----------------|----------|-------|-------|---------|---------------|----------|-------|-------|---------|
|      | Part No.       | A/M Ref. | A     | B     | Wt. oz. | Part No.      | A/M Ref. | A     | B     | Wt. oz. |
| A    | 2Z<br>139934/A | 5X/      | -.250 | -.628 | -.04    | Z<br>139935/A | 5X/      | -.256 | -.628 | -.04    |
| Z    | 139934/Z       | —        | -.325 | -.800 | -.07    | 139935/Z      | —        | -.325 | -.800 | -.07    |
| B    | 139934/B       | —        | -.360 | -.990 | -.10    | 139935/B      | —        | -.360 | -.990 | -.11    |
| C    | 139934/C       | —        | -.395 | 1.175 | -.14    | 139935/C      | —        | -.395 | 1.175 | -.15    |
| D    | 139934/D       | —        | -.450 | 1.547 | -.23    | 139935/D      | —        | -.450 | 1.547 | -.25    |
| E    | 139934/E       | —        | -.562 | 1.795 | -.37    | 139935/E      | —        | -.562 | 1.795 | -.39    |

### FERRULES FOR PLASTIC TUBING (Brass—electro-tinned)

Designed for use with plastic tubing and clamp ring.  
May be used on a socket or with a plug shroud and coupling nut.

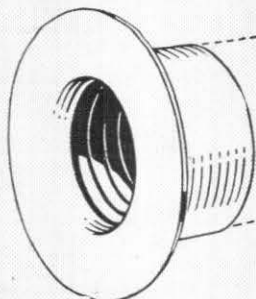
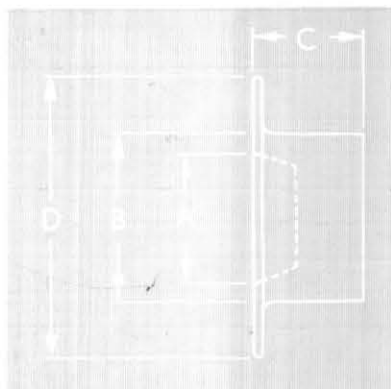


| Size | STANDARD     |          |                 |       |       | OVERSIZE |              |          |                 |         |
|------|--------------|----------|-----------------|-------|-------|----------|--------------|----------|-----------------|---------|
|      | Part No.     | A/M Ref. | Tubing Size I/D | A     | B     | Wt. oz.  | Part No.     | A/M Ref. | Tubing Size I/D | Wt. oz. |
| A    | Z<br>18500/A | 5X/      | 1522            | -.375 | -.750 | -.14     | Z<br>18764/A | 5X/      | 1546            | -.500   |
| Z    | 18500/Z      | 1523     | -.500           | -.750 | -.800 | -.19     | 18764/Z      | 1547     | -.625           | -.937   |
| B    | 18500/B      | 1524     | -.625           | -.750 | -.990 | -.22     | 18764/B      | 1548     | -.750           | -.937   |
| C    | 18500/C      | 1525     | -.750           | -.750 | 1.175 | -.30     | 18764/C      | 1549     | 1.000           | 1.062   |
| D    | 18500/D      | 1526     | 1.000           | -.875 | 1.547 | -.58     | 18764/D      | 1550     | 1.250           | 1.062   |
| E    | 18500/E      | 1527     | 1.250           | -.875 | 1.795 | -.81     | 18764/E      | 2187     | 1.500           | 1.062   |

Clamp rings for these ferrules are shown on page 23.

### CONDUIT FERRULES TYPE "H" (Aluminium or brass)

Designed for use with metal conduit and to be swaged or soldered into position.  
May be used on a socket or with a plug shroud and coupling nut.



| Conduit Size | ALUMINIUM                        |                      |                      | BRASS (Nickel Plated)            |             |                      | A                       | B                       | C                       | D                       |
|--------------|----------------------------------|----------------------|----------------------|----------------------------------|-------------|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|              | Part No.                         | A/M Ref.             | Wt. oz.              | Part No.                         | A/M Ref.    | Wt. oz.              |                         |                         |                         |                         |
| A            | Z<br>1350<br>3/8 1694            | 5X/ 1570<br>1344     | -.04<br>-.04         | Z<br>139936/1<br>139937          | 5X/ —<br>—  | -.09<br>-.11         | -.250<br>-.375          | -.447<br>-.572          | -.437<br>-.437          | -.628<br>-.628          |
| Z            | 3/8 1442<br>1/2 1441             | 1571<br>1343         | -.05<br>-.05         | 139936/12<br>139936/11           | —<br>—      | -.13<br>-.14         | -.375<br>-.500          | -.572<br>-.697          | -.437<br>-.437          | -.800<br>-.800          |
| B            | 3/8 1369<br>5/8 1359<br>1/2 1361 | 1074<br>1327<br>1328 | -.06<br>-.07<br>-.07 | 139936/2<br>139936/4<br>139936/9 | —<br>—<br>— | -.21<br>-.21<br>-.19 | -.375<br>-.625<br>-.500 | -.572<br>-.828<br>-.697 | -.437<br>-.500<br>-.437 | -.990<br>-.990<br>-.990 |
| C            | 5/8 1353<br>3/4 1352             | 1325<br>909          | -.09<br>-.08         | 139936/10<br>139936/5            | —<br>—      | -.26<br>-.24         | -.625<br>-.750          | -.828<br>-.982          | -.500<br>-.500          | 1.175<br>1.175          |
| D            | 3/4 1362<br>1 1363               | 1329<br>912          | -.13<br>-.15         | 139936/14<br>139936/6            | —<br>—      | -.30<br>-.45         | -.750<br>1.000          | -.982<br>1.267          | -.500<br>-.562          | 1.574<br>1.574          |
| E            | 1 1365                           | 1330                 | -.19                 | 139936/15                        | —           | -.50                 | 1.000                   | 1.267                   | -.625                   | 1.800                   |

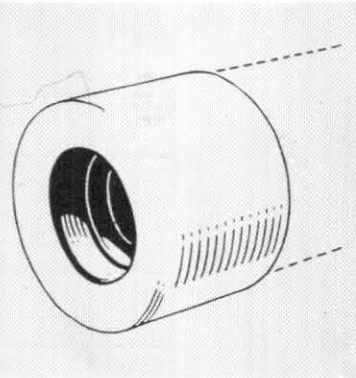
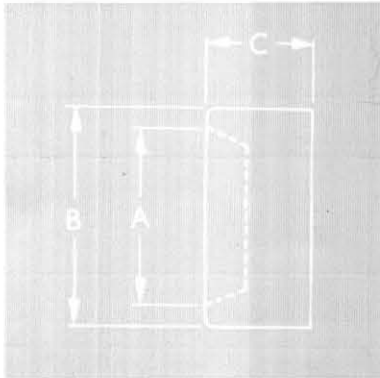
Coupling nuts for use with these items are listed on page 22. All dimensions are in inches.

# Plessey

## PLUG & SOCKET ACCESSORIES

### CONDUIT FERRULES TYPE "G" (Aluminium or brass)

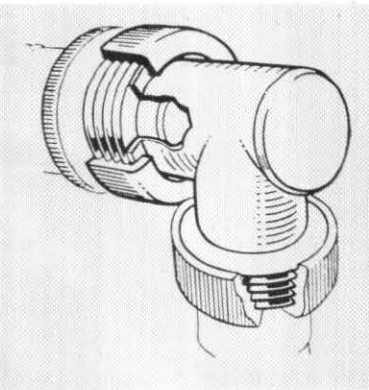
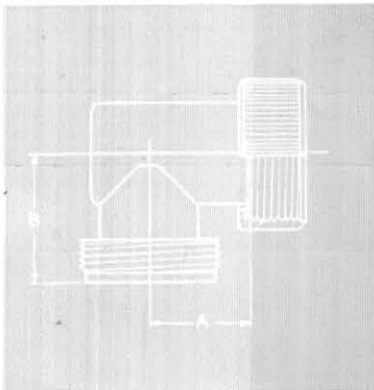
Designed for use with metal conduit and to be swaged or soldered into position.



| Conduit Size | ALUMINIUM |          |         | BRASS (Nickel Plated) |          |         | A     | B     | C    |
|--------------|-----------|----------|---------|-----------------------|----------|---------|-------|-------|------|
|              | Part No.  | A/M Ref. | Wt. oz. | Part No.              | A/M Ref. | Wt. oz. |       |       |      |
| 3/8          | Z 1431    | 5X/ 2073 | ·03     | 2Z 139938             | 5X/ —    | —       | ·375  | ·572  | ·437 |
| 1/2          | 1432      | 2074     | ·04     | 139939                | —        | ·12     | ·500  | ·697  | ·437 |
| 5/8          | 1433      | 1342     | ·05     | 139940                | —        | ·14     | ·625  | ·828  | ·437 |
| 3/4          | 1434      | 2075     | ·07     | 139941                | —        | —       | ·750  | ·982  | ·500 |
| 1            | 1435      | 2076     | ·11     | 139942                | —        | ·30     | 1·000 | 1·267 | ·625 |
| 1-1/4        | 1450      | 2077     | ·11     | —                     | —        | —       | 1·250 | 1·522 | ·625 |

### ELBOW ASSEMBLY (Brass—nickel plated)

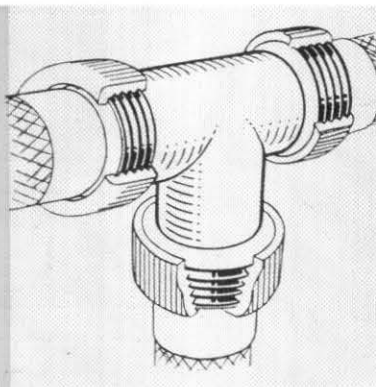
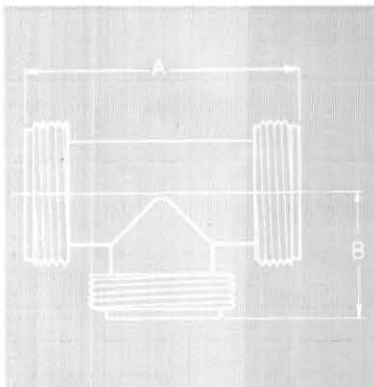
Designed to allow a right-angle entry into the rear of a socket or plug with a plug shroud.



| Size | Part No.   | A/M Ref. 5X/ | A    | B    | Weight oz. |
|------|------------|--------------|------|------|------------|
| A    | 2CZ 139944 | —            | ·70  | ·81  | 1·20       |
| Z    | 2CZ 139945 | —            | ·72  | ·93  | 1·42       |
| B    | 2CZ 139946 | —            | ·84  | 1·02 | 1·80       |
| C    | 2CZ 139947 | —            | ·94  | 1·02 | 2·56       |
| D    | 2CZ 139948 | —            | 1·12 | 1·31 | 4·18       |
| E    | 2CZ 139949 | —            | 1·18 | 1·50 | 5·24       |

### TEE CONNECTORS (Brass—nickel plated)

Designed for use with metal conduit where take-off leads are required at right angles to the existing run.



| Size | Part No.   | A    | B    | Weight oz. |
|------|------------|------|------|------------|
| A    | 2CZ 139950 | 2·02 | ·81  | 1·09       |
| Z    | 2CZ 139951 | 2·24 | ·93  | 2·12       |
| B    | 2CZ 139952 | 2·50 | 1·02 | 3·34       |
| C    | 2CZ 139953 | 2·74 | 1·02 | 3·55       |
| D    | 2CZ 139954 | 3·00 | 1·31 | 6·86       |
| E    | 2CZ 139955 | 3·25 | 1·50 | 6·96       |

All dimensions are in inches.

523140.

4

5935-99-203-2

50/4  
3605

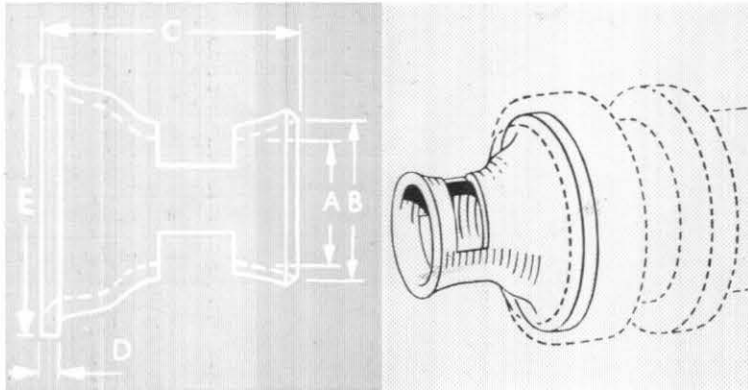
# Plessey

Adams

## PLUG & SOCKET ACCESSORIES

### CUT FERRULES ROUND BASE (Brass—nickel plated)

Designed for use with single or multi-way cables where a clamp is required immediately behind the socket or plug shroud, thus preventing any cable strain being transmitted to the contacts.

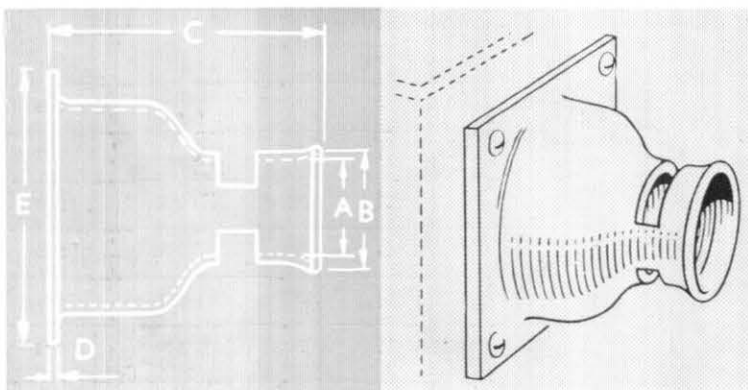


| Size | Part No.  | A/M Ref. | Wt. oz. | A     | B     | C     | D    | E     |
|------|-----------|----------|---------|-------|-------|-------|------|-------|
| A    | 2Z 139956 | —        | .22     | .275  | .375  | .625  | .036 | .625  |
|      | 139957    | —        | .21     | .355  | .500  | .687  | .036 | .625  |
|      | 139958    | —        | .23     | .405  | .468  | .625  | .036 | .625  |
|      | 139959    | —        | .23     | .442  | .500  | .687  | .020 | .625  |
| Z    | 139960    | —        | .33     | .355  | .437  | .750  | .036 | .800  |
|      | 139961    | —        | .33     | .505  | .625  | .687  | .020 | .800  |
| B    | 139962    | —        | .42     | .355  | .500  | 1.000 | .048 | .990  |
|      | 139963    | —        | .35     | .405  | .593  | 1.187 | .036 | .990  |
|      | 139964    | —        | .40     | .505  | .650  | 1.187 | .036 | .990  |
|      | 139965    | —        | .40     | .605  | .725  | .687  | .020 | .990  |
|      | 139966    | —        | .43     | .723  | .812  | .687  | .020 | .990  |
|      | 139967    | —        | .43     | .755  | .812  | .687  | .020 | .990  |
| C    | 139968    | —        | .54     | .405  | .593  | 1.187 | .048 | 1.175 |
|      | 139969    | —        | .50     | .605  | .781  | 1.187 | .036 | 1.175 |
|      | 139970    | —        | .56     | .705  | .906  | 1.187 | .036 | 1.175 |
|      | 139971    | —        | .46     | .905  | 1.000 | .875  | .036 | 1.175 |
| D    | 139972    | —        | .68     | .805  | 1.000 | 1.125 | .036 | 1.550 |
|      | 139973    | —        | .78     | 1.005 | 1.281 | 1.125 | .036 | 1.550 |
| E    | 139974    | —        | .95     | 1.205 | 1.500 | 1.125 | .036 | 1.800 |
|      | 139975    | —        | .94     | 1.255 | 1.537 | .875  | .036 | 1.800 |

Coupling nuts for use with these items are listed on page 22.

### CUT FERRULES SQUARE BASE (Brass—nickel plated)

Designed for use where single or multi-way cables are required to be clamped immediately behind a single plug or where cables are to be clamped on entering a junction box.



| Size | Part No.  | A/M Ref. | Wt. oz. | A     | B     | C     | D    | E     |
|------|-----------|----------|---------|-------|-------|-------|------|-------|
| A    | 2Z 139976 | —        | .47     | .320  | .406  | .875  | .036 | .937  |
|      | 139977    | —        | .48     | .405  | .468  | .875  | .036 | .937  |
|      | 139978    | —        | .56     | .405  | .500  | .750  | .036 | .937  |
| Z    | 139979    | —        | .56     | .500  | .562  | 1.187 | .036 | 1.125 |
| B    | 139980    | —        | .56     | .500  | .593  | 1.187 | .036 | 1.250 |
|      | 139981    | —        | .56     | .505  | .625  | 1.187 | .036 | 1.250 |
|      | 139982    | —        | .56     | .600  | .687  | 1.187 | .036 | 1.250 |
|      | 139983    | —        | .58     | .687  | .750  | 1.187 | .036 | 1.250 |
|      | 139984    | —        | .64     | .705  | .906  | 1.187 | .036 | 1.250 |
|      | 139985    | —        | .68     | .905  | 1.000 | .875  | .036 | 1.250 |
| C    | 139986    | —        | .75     | .750  | .812  | 1.187 | .036 | 1.437 |
| D    | 139987    | —        | .82     | .805  | .875  | 1.375 | .036 | 1.750 |
|      | 139988    | —        | .84     | 1.000 | 1.062 | 1.500 | .036 | 1.750 |

Panel piercing details are shown on page 14. All dimensions are in inches.

| 5X/<br>No. | Plessey Part<br>No. CZ | Page<br>No. | 5X/<br>No. | Plessey Part<br>No. CZ | Page<br>No. | 5X/<br>No. | Plessey Part<br>No. CZ | Page<br>No. | 5X/<br>No. | Plessey Part<br>No. CZ | Page<br>No. | 5X/<br>No. | Plessey Part<br>No. CZ | Page<br>No. |
|------------|------------------------|-------------|------------|------------------------|-------------|------------|------------------------|-------------|------------|------------------------|-------------|------------|------------------------|-------------|
| 1          | 1064                   | 30          | 92         | 12367                  | 31          | 174        | *1031A-2/3             | 30          | 4035       | 1782/2                 | 30          | 6050       | *27989                 | 33          |
| 2          | 1760                   | 30          | 93         | 1077                   | 30          | 175        | *1111A-2/3             | 30          | 4037       | 2672/2                 | 31          | 6056       | 28101                  | 33          |
| 3          | 1050                   | 30          | 94         | 12379                  | 32          | 176        | *2094-2/3              | 31          | 4038       | 2755/2                 | 31          | 6057       | 28191                  | 33          |
| 4          | 2754                   | 31          | 95         | 12353                  | 31          | 177        | *2121A-2/3             | 31          | 4039       | 2110/2                 | 31          | 6058       | 28042                  | 33          |
| 5          | 2686                   | 31          | 101        | *1114-2/3              | 30          | 178        | *1127A-2/3             | 30          | 4040       | 1055/2                 | 30          | 6059       | *27911                 | 33          |
| 6          | 2685                   | 31          | 102        | *1761-2                | 30          | 179        | *1089A-2/3             | 30          | 4041       | 2757/2                 | 31          | 6060       | *27991                 | 33          |
| 7          | 2750                   | 31          | 102        | *1761/3                | 30          | 180        | *2122A-2/3             | 31          | 4042       | 2753/2                 | 31          | 6061       | 28102                  | 33          |
| 8          | 12347                  | 31          | 103        | *1100-2/3              | 30          | 181        | *1102A-2/3             | 30          | 4043       | 2739/2                 | 31          | 6062       | 28192                  | 33          |
| 9          | 1765                   | 30          | 104        | *2704-2/3              | 31          | 182        | *1095A-2               | 30          | 4044       | 2743/2                 | 31          | 6063       | 28043                  | 33          |
| 10         | 1060                   | 30          | 105        | *2698-2/3              | 31          | 182        | *1095A/3               | 30          | 4045       | 1054/2                 | 30          | 6064       | *27912                 | 33          |
| 11         | 1776                   | 30          | 106        | *1144-2                | 30          | 183        | *10349A-2/3            | 31          | 4046       | 2758/2                 | 31          | 6065       | *27992                 | 33          |
| 12         | 1770                   | 30          | 106        | *1144/3                | 30          | 184        | *2707A-2/3             | 31          | 4047       | 12365/2                | 31          | 6066       | 28103                  | 33          |
| 13         | 2655                   | 31          | 107        | *2702-2/3              | 31          | 185        | *2712A-2/3             | 31          | 4048       | 1092/2                 | 30          | 6067       | 28193                  | 33          |
| 14         | 2097                   | 31          | 108        | *10340-2/3             | 31          | 186        | *2123A-2/3             | 31          | 4049       | 2091/2                 | 31          | 6068       | 28044                  | 33          |
| 15         | 2678                   | 31          | 109        | *1766-2/3              | 30          | 187        | *1093A-2/3             | 30          | 4050       | 1067/2                 | 30          | 6069       | *27913                 | 33          |
| 16         | 1065                   | 30          | 110        | *1110-2/3              | 30          | 188        | *1135A-2/3             | 30          | 4051       | 1053/2                 | 30          | 6070       | *27993                 | 33          |
| 17         | 2687                   | 31          | 111        | *1777-2/3              | 30          | 189        | *1117A-2/3             | 30          | 4052       | 12377/2                | 32          | 6071       | 28104                  | 33          |
| 18         | 2664                   | 31          | 112        | *1771-2                | 30          | 190        | *2128A-2               | 31          | 4055       | 1058/2                 | 30          | 6072       | 28194                  | 33          |
| 19         | 12348                  | 31          | 112        | *1771/3                | 30          | 198        | 17883                  | 32          | 4056       | 1057/2                 | 30          | 6073       | 28045                  | 33          |
| 20         | 1033                   | 30          | 113        | *2135-2                | 31          | 199        | 17884                  | 32          | 4066       | 2670/2                 | 31          | 6074       | *27914                 | 33          |
| 21         | 1051                   | 30          | 113        | *2135/3                | 31          | 1285       | 12391                  | 32          | 4067       | 2660/2                 | 31          | 6075       | *27994                 | 33          |
| 22         | 1066                   | 30          | 114        | *2118-2/3              | 31          | 1286       | *10348                 | 31          | 4068       | 2109/2                 | 31          | 6076       | 28105                  | 33          |
| 23         | 1070                   | 30          | 115        | *2697-2/3              | 31          | 1554       | 16568                  | 32          | 4069       | 2688/2                 | 31          | 6077       | 28195                  | 33          |
| 24         | 2682                   | 31          | 116        | *1115-2                | 30          | 1555       | *15155-3               | 32          | 4070       | 2746/2                 | 31          | 6078       | 28046                  | 33          |
| 25         | 1061                   | 30          | 116        | *1115/3                | 30          | 1567       | 18960                  | 32          | 4071       | 11408/2                | 31          | 6079       | *27915                 | 33          |
| 26         | 12384                  | 32          | 117        | *2699-2/3              | 31          | 1568       | 18961                  | 32          | 4072       | 2668/2                 | 31          | 6080       | *27995                 | 33          |
| 27         | 2744                   | 31          | 118        | *2695-2/3              | 31          | 1582       | *2129A                 | 31          | 4073       | 2105/2                 | 31          | 6086       | 28107                  | 33          |
| 28         | 1071                   | 30          | 119        | *2138                  | 31          | 1583       | *2129                  | 31          | 4074       | 2676/2                 | 31          | 6087       | 28197                  | 33          |
| 29         | 2658                   | 31          | 120        | *10343-2/3             | 31          | 1584       | *2118A                 | 31          | 4076       | 2653/2                 | 31          | 6088       | 28048                  | 33          |
| 30         | 1088                   | 30          | 121        | *1134                  | 30          | 1585       | 12386                  | 32          | 4077       | 2677/2                 | 31          | 6089       | *27917                 | 33          |
| 31         | 12370                  | 32          | 122        | *1101-2/3              | 30          | 1589       | 17924                  | 32          | 4078       | 2669/2                 | 31          | 6090       | *27997                 | 33          |
| 32         | 2103                   | 31          | 123        | *1116-2/3              | 30          | 1706       | 19250                  | 32          | 4079       | 12390/2                | 32          | 6091       | 28108                  | 33          |
| 33         | 1052                   | 30          | 124        | *1120-2/3              | 30          | 1707       | 19251                  | 32          | 4080       | 1076/2                 | 30          | 6092       | 28198                  | 33          |
| 34         | 1094                   | 30          | 125        | *2693-2/3              | 31          | 1708       | 19252                  | 32          | 4081       | 2102/2                 | 31          | 6093       | 28049                  | 33          |
| 35         | 1782                   | 30          | 126        | *1031-2/3              | 30          | 1709       | 19253                  | 32          | 4082       | 2681/2                 | 31          | 6094       | *27918                 | 33          |
| 37         | 2672                   | 31          | 127        | *1111-2/3              | 30          | 1766       | 2684                   | 31          | 4083       | 2107/2                 | 31          | 6095       | *27998                 | 33          |
| 38         | 2755                   | 31          | 128        | *2095-2/3              | 31          | 1767       | 2114                   | 31          | 4084       | 2104/2                 | 31          | 6096       | 28109                  | 33          |
| 39         | 2110                   | 31          | 129        | *2121-2                | 31          | 1946       | *22118                 | 32          | 4085       | 2100/2                 | 31          | 6097       | 28199                  | 33          |
| 40         | 1055                   | 30          | 129        | *2121/3                | 31          | 1947       | *22119                 | 32          | 4086       | 2673/2                 | 31          | 6098       | 28050                  | 33          |
| 41         | 2757                   | 31          | 130        | *1127-2/3              | 30          | 2043       | *22344                 | 32          | 4087       | 10710/2                | 31          | 6099       | *27919                 | 33          |
| 42         | 2753                   | 31          | 131        | *2692-2/3              | 31          | 2128       | 22794                  | 32          | 4088       | 2756/2                 | 31          | 6100       | *27999                 | 33          |
| 43         | 2739                   | 31          | 132        | *1089-2                | 30          | 2129       | 22796                  | 32          | 4089       | 12378/2                | 32          | 6101       | 28110                  | 33          |
| 44         | 2743                   | 31          | 132        | *1089/3                | 30          | 2130       | *1103A/3               | 30          | 4090       | 2106/2                 | 31          | 6102       | 28200                  | 33          |
| 45         | 1054                   | 30          | 133        | *10354-2/3             | 31          | 2131       | *1107A/3               | 30          | 4091       | 2675/2                 | 31          | 6103       | 28051                  | 33          |
| 46         | 2758                   | 31          | 134        | *2122-2/3              | 31          | 2181       | 22982                  | 32          | 4092       | 12367/2                | 31          | 6104       | *27920                 | 33          |
| 47         | 12365                  | 31          | 135        | *1102-2/3              | 30          | 2182       | 22983                  | 32          | 5554       | 16568/2                | 32          | 6105       | *28000                 | 33          |
| 48         | 1092                   | 30          | 136        | *1095-2                | 30          | 2183       | 22238                  | 32          | 6001       | 28090                  | 33          | 6106       | 28111                  | 33          |
| 49         | 2091                   | 30          | 136        | *1095/3                | 30          | 2881       | 22580                  | 32          | 6002       | 28180                  | 33          | 6107       | 28201                  | 33          |
| 50         | 1067                   | 30          | 137        | *1783-2/3              | 30          | 2882       | *22579/3               | 32          | 6003       | 28031                  | 33          | 6108       | 28052                  | 33          |
| 51         | 1053                   | 30          | 138        | *10349-2/3             | 31          | 2883       | *22579A/3              | 32          | 6004       | *27900                 | 33          | 6109       | *27921                 | 33          |
| 52         | 12377                  | 32          | 139        | *1119                  | 30          | 2928       | *27004                 | 32          | 6005       | *27980                 | 33          | 6110       | *28001                 | 33          |
| 54         | 12380                  | 32          | 140        | *2696-2/3              | 31          | 3157       | 19147                  | 32          | 6006       | 28091                  | 33          | 6111       | 28112                  | 33          |
| 55         | 1058                   | 30          | 141        | *2707-2/3              | 31          | 3158       | 19145                  | 32          | 6007       | 28181                  | 33          | 6112       | 28202                  | 33          |
| 56         | 1057                   | 30          | 142        | *2126-2/3              | 31          | 3159       | *19148                 | 32          | 6008       | 28032                  | 33          | 6113       | 28053                  | 33          |
| 57         | 2099                   | 31          | 143        | *1105-2/3              | 30          | 3160       | *19146                 | 32          | 6009       | *27901                 | 33          | 6114       | *27922                 | 33          |
| 58         | 2679                   | 31          | 144        | *2713-2/3              | 31          | 4001       | 1064/2                 | 30          | 6010       | *27981                 | 33          | 6115       | 28002                  | 33          |
| 59         | 2680                   | 31          | 145        | *2712-2                | 31          | 4002       | 1760/2                 | 30          | 6011       | 28092                  | 33          | 6116       | 28113                  | 33          |
| 60         | 1072                   | 30          | 145        | *2712/3                | 31          | 4003       | 1050/2                 | 30          | 6012       | 28182                  | 33          | 6117       | 28203                  | 33          |
| 61         | 2113                   | 31          | 146        | *2120-2/3              | 31          | 4004       | 2754/2                 | 31          | 6013       | 28033                  | 33          | 6118       | 28054                  | 33          |
| 62         | 2752                   | 31          | 147        | *2123-2                | 31          | 4005       | 2686/2                 | 31          | 6014       | *27902                 | 33          | 6119       | *27923                 | 33          |
| 63         | 12381                  | 32          | 147        | *2123/3                | 31          | 4006       | 2685/2                 | 31          | 6016       | 28093                  | 33          | 6120       | *28003                 | 33          |
| 64         | 12363                  | 32          | 148        | *1104-2/3              | 30          | 4007       | 2750/2                 | 31          | 6017       | 28183                  | 33          | 6126       | 28115                  | 33          |
| 65         | 12389                  | 32          | 149        | *2714-2/3              | 31          | 4008       | 12347/2                | 31          | 6018       | 28034                  | 33          | 6127       | 28205                  | 33          |
| 66         | 2670                   | 31          | 150        | *10352-2/3             | 31          | 4009       | 1765/2                 | 30          | 6019       | *27903                 | 33          | 6128       | 28056                  | 33          |
| 67         | 2660                   | 31          | 151        | *1093-2/3              | 30          | 4010       | 1060/2                 | 30          | 6020       | *27983                 | 33          | 6129       | *27925                 | 33          |
| 68         | 2109                   | 31          | 152        | *2115-2/3              | 31          | 4011       | 1776/2                 | 30          | 6026       | 28095                  | 33          | 6130       | *28005                 | 33          |
| 69         | 2688                   | 31          | 153        | *1135-2                | 30          | 4012       | 1770/2                 | 30          | 6027       | 28185                  | 33          | 6131       | 28116                  | 33          |
| 70         | 2746                   | 31          | 153        | *1135/3                | 30          | 4013       | 2655/2                 | 31          | 6028       | 28036                  | 33          | 6132       | 28206                  | 33          |
| 71         | 11408                  | 31          | 154        | *1103-2/3              | 30          | 4014       | 2097/2                 | 31          | 6029       | *27905                 | 33          | 6133       | 28057                  | 33          |
| 72         | 2668                   | 31          | 155        | *10365-2/3             | 31          | 4015       | 2678/2                 | 31          | 6030       | *27985                 | 33          | 6134       | *27926                 | 33          |
| 73         | 2105                   | 31          | 156        | *1143                  | 30          | 4016       | 1065/2                 | 30          | 6031       | 28096                  | 33          | 6135       | *28006                 | 33          |
| 74         | 2676                   | 31          | 158        | *1108-2/3              | 30          | 4017       | 2687/2                 | 31          | 6032       | 28186                  | 33          | 6136       | 28117                  | 33          |
| 75         | 2652                   | 31          | 159        | *1107-2/3              | 30          | 4018       | 2664/2                 | 31          | 6033       | 28037                  | 33          | 6137       | 28207                  | 33          |
| 76         | 2653                   | 31          | 160        | *1117-2                | 30          | 4019       | 12348/2                | 31          | 6034       | *27906                 | 33          | 6138       | 28058                  | 33          |
| 77         | 2677                   | 31          | 161        | *2128-2                | 31          | 4020       | 1033/2                 | 30          | 6035       | *27986                 | 33          | 6139       | *27927                 | 33          |
| 78         | 2669                   | 31          | 162        | *1114A-2/3             | 30          | 4021       | 1051/2                 | 30          | 6036       | 28097                  | 33          | 6140       | *28007                 | 33          |
| 79         | 12390                  | 32          | 163        | *1761A-2               | 30          | 4022       | 1066/2                 | 30          | 6037       | 28187                  | 33          | 6141       | 28118                  | 33          |
| 80         | 1076                   | 30          | 163        | *1761A/3               | 30          | 4023       | 1070/2                 | 30          | 6038       | 28038                  | 33          | 6142       | 28208                  | 33          |
| 81         | 2102                   | 31          | 164        | *1100A-2/3             | 30          | 4024       | 2682/2                 | 31          | 6039       | *27907                 | 33          | 6143       | 28059                  | 33          |
| 82         | 2681                   | 31          | 165        | *2698A-2/3             | 31          | 4025       | 1061/2                 | 30          | 6040       | *27987                 | 33          | 6144       | *27928                 | 33          |
| 83         | 2107                   | 31          | 166        | *2702A-2/3             | 31          | 4026       | 12384/2                | 32          | 6041       | 28098                  | 33          | 6145       | *28008                 | 33          |
| 84         | 2104                   | 31          | 167        | *10340A-2/3            | 31          | 4027       | 2744/2                 | 31          | 6042       | 28188                  | 33          | 6147       | 27810/2                | 33          |
| 85         | 2100                   | 31          | 168        | *1110A-2/3             | 30          | 4028       | 1071/2                 | 30          | 6043       | 28039                  | 33          | 6148       | 49164                  | 34          |
| 86         | 2673                   | 31          | 169        | *1771A-2               | 30          | 4029       | 2658/2                 | 31          | 6044       | *27908                 | 33          | 6149       | *27811/3               | 33          |
| 87         | 10710                  | 31          | 169        | *1771A/3               | 30          | 4030       | 1088/2                 | 32          | 6045       | *27988                 | 33          | 6150       | *27811A/3              | 33          |
| 88         | 2756                   | 31          | 170        | *1115A-2/3             | 30          | 4031       | 12370/2                | 32          | 6046       | 28099                  | 33          | 6151       | 28139                  | 33          |
| 89         | 12378                  | 32          | 171        | *2138A                 | 31          | 4032       | 2103/2                 | 31          | 6047       | 28189                  | 33          | 6152       | 28140                  | 33          |
| 90         | 2106                   | 31          | 172        | *1101A-2/3             | 30          | 4033       | 1052/2                 | 30          | 6048       | 28040                  | 33          | 6153       | 28141                  | 33          |
| 91         | 2675                   | 31          | 173        | *1120A-2/3             | 30          | 4034       | 1094/2                 | 30          | 6049       | *27909                 | 33          | 6154       | *28137                 | 33          |

Parts marked \* are sockets. All unmarked numbers are plugs.

# Plessey

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| 5X/<br>No. | Plessey Part<br>No. CZ | Page<br>No. | 5X/<br>No. | Plessey Part<br>No. CZ | Page<br>No. | 5X/<br>No. | Plessey Part<br>No. CZ | Page<br>No. | 5X/<br>No. | Plessey Part<br>No. CZ | Page<br>No. | 5X/<br>No. | Plessey Part<br>No. CZ | Page<br>No. |
|------------|------------------------|-------------|------------|------------------------|-------------|------------|------------------------|-------------|------------|------------------------|-------------|------------|------------------------|-------------|
| 6155       | *28138                 | 33          | 6363       | *50411                 | 34          | 6649       | 71906                  | 36          | 6840/B     | *111687                | 38          | 7128       | *84874                 | 11          |
| 6156       | *50951                 | 35          | 6364       | *56076                 | 35          | 6651       | 53206                  | 35          | 6841       | *56114                 | 35          | 7129       | *108946                | 11          |
| 6158       | 51396                  | 35          | 6365       | *60524                 | 35          | 6662       | *59831                 | 35          | 6841/B     | *111681                | 38          | 7130       | *108951                | 11          |
| 6159       | *51395                 | 35          | 6366       | *60528                 | 35          | 6695       | *73360                 | 36          | 6842       | *71761                 | 36          | 7131       | *108952                | 11          |
| 6179       | 50355                  | 34          | 6367       | *60530                 | 35          | 6704       | 64591                  | 36          | 6842/B     | *111663                | 38          | 7132       | *108954                | 11          |
| 6181       | 50356                  | 34          | 6368       | *60531                 | 35          | 6705       | 64599                  | 36          | 6843       | *71776                 | 36          | 7133       | *108959                | 11          |
| 6182       | 50357                  | 34          | 6369       | *60533                 | 35          | 6707       | *64183                 | 36          | 6843/B     | *111686                | 38          | 7134       | *108961                | 11          |
| 6183       | 50359                  | 34          | 6370       | *56080                 | 35          | 6717       | 60477                  | 35          | 6844       | *71772                 | 36          | 7135       | *108962                | 11          |
| 6184       | 50360                  | 34          | 6371       | *60499                 | 35          | 6720       | 76498                  | 36          | 6844/B     | *111682                | 38          | 7136       | *108964                | 11          |
| 6185       | 50361                  | 34          | 6372       | *56072                 | 35          | 6744       | 83223                  | 36          | 6845       | *71766                 | 36          | 7137       | *108968                | 11          |
| 6186       | 50369                  | 34          | 6373       | *60509                 | 35          | 6745       | *83224                 | 36          | 6845/B     | *111668                | 38          | 7138       | *11223                 | 8           |
| 6188       | *50398                 | 34          | 6374       | *56085                 | 35          | 6761       | 50378                  | 34          | 6846       | *71780                 | 36          | 7139       | *11399                 | 8           |
| 6189       | *50399                 | 34          | 6374/B     | *111692                | 38          | 6772       | *56084                 | 35          | 6846/B     | *111691                | 38          | 7140       | *11400                 | 8           |
| 6190       | *50400                 | 34          | 6375       | *56089                 | 35          | 6772/B     | *111646                | 38          | 6847       | *83851                 | 36          | 7141       | *11401                 | 8           |
| 6191       | *50401                 | 34          | 6375/B     | *111693                | 38          | 6773       | *71748                 | 36          | 6851       | *71783                 | 36          | 7142       | *11402                 | 8           |
| 6192       | *50403                 | 34          | 6376       | *56093                 | 35          | 6773/B     | *111648                | 38          | 6851/B     | *111719                | 38          | 7143       | *11403                 | 8           |
| 6193       | *50404                 | 34          | 6376/B     | *111695                | 38          | 6774       | *56104                 | 35          | 6867       | 69865                  | 36          | 7144       | *11404                 | 8           |
| 6194       | *50405                 | 34          | 6377       | *56097                 | 35          | 6774/B     | *111653                | 38          | 6871       | *50392                 | 34          | 7145       | *11408                 | 8           |
| 6195       | *50408                 | 34          | 6377/B     | *111697                | 38          | 6775       | *56096                 | 35          | 6873       | *60501                 | 35          | 7146       | *11409                 | 8           |
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In view of the development of Standard plugs and sockets over the years of their use, certain items have been redesigned, improved, or production may have been discontinued for a variety of reasons. These items have been included in the index for ease of reference and have been classified as follows:—

**“ DISCONTINUED ”**—items classified as such are no longer in production and an alternative should be selected from items of current manufacture.

**“ REPLACED BY ”**—items classified as such have been superseded by the assembly quoted and are considered to be completely interchangeable.

**“ OBSOLESCE ”**—items classified as such have in many cases been shown with an alternative item from current manufacture. If it is not possible to use these alternatives, obsolescent items will be supplied but special prices and more protracted delivery may be unavoidable.

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| Z 22167          | 1966    | "                                  | 22       | CZ 27564         | —       | " 2CZ 108907            | 8        |
| Z 22168          | 1967    | "                                  | 22       | CZ 27565         | —       | " 2CZ 85945             | 8        |
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| CZ 22344         | 2043    | Discontinued                       | —        | CZ 27568         | —       | " 2CZ 108909            | 8        |
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| CZ 22580         | 2881    | " 2CZ 139898                       | 12       | CZ 27582         | —       | " 2CZ 108911            | 8        |

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| CZ 64670            | —      | Replaced by 2CZ 139875            | 12          | 2CZ 83004           | —       | " 2CZ 139880                      | 12          |
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| CZ 70871            | —      | " 2CZ 138232                      | —           | 2CZ 84262           | —       | Replaced by 2CZ 139873            | 12          |
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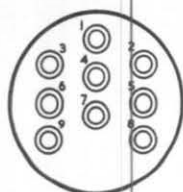
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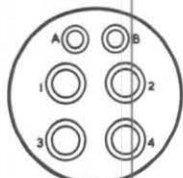
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| 2CZ 138238       | —       | 12       | 2Z 139936/14     | —       | 24       |
| 2CZ 138239       | —       | 12       | 2Z 139936/15     | —       | 24       |
| 2CZ 138240       | —       | —        | 2Z 139937        | —       | 24       |
| 2CZ 138241       | —       | —        | 2Z 139938        | —       | 25       |
| 2CZ 138242       | —       | 12       | 2Z 139939        | —       | 25       |
| 2CZ 138243       | —       | 13       | 2Z 139940        | —       | 25       |
| 2CZ 138244       | —       | 13       | 2Z 139941        | —       | 25       |
| 2CZ 138245       | —       | 13       | 2Z 139942        | —       | 25       |
| 2CZ 138246       | —       | 10       | 2CZ 139944       | —       | 25       |
| 2CZ 138247       | —       | 10       | 2CZ 139945       | —       | 25       |
| 2Z 138788        | —       | 15       | 2CZ 139946       | —       | 25       |
| 2CZ 138789       | —       | 15       | 2CZ 139947       | —       | 25       |
| 2CZ 139502       | —       | —        | 2CZ 139948       | —       | 25       |
| 2CZ 139841       | —       | —        | 2CZ 139949       | —       | 25       |
| 2CZ 139864       | —       | 12       | 2CZ 139950       | —       | 25       |
| 2CZ 139865       | —       | 12       | 2CZ 139951       | —       | 25       |
| 2CZ 139866       | —       | 12       | 2CZ 139952       | —       | 25       |
| 2CZ 139867       | —       | 12       | 2CZ 139953       | —       | 25       |
| 2CZ 139868       | —       | 12       | 2CZ 139954       | —       | 25       |
| 2CZ 139869       | —       | 12       | 2CZ 139955       | —       | 25       |
| 2CZ 139870       | —       | 12       | 2Z 139956        | —       | 26       |
| 2CZ 139871       | —       | 12       | 2Z 139957        | —       | 26       |
| 2CZ 139872       | —       | 12       | 2Z 139958        | —       | 26       |
| 2CZ 139873       | —       | 12       | 2Z 139959        | —       | 26       |
| 2CZ 139874       | —       | 12       | 2Z 139960        | —       | 26       |
| 2CZ 139875       | —       | 12       | 2Z 139961        | —       | 26       |
| 2CZ 139876       | —       | 12       | 2Z 139962        | —       | 26       |
| 2CZ 139877       | —       | 12       | 2Z 139963        | —       | 26       |
| 2CZ 139878       | —       | 12       | 2Z 139964        | —       | 26       |
| 2CZ 139879       | —       | 12       | 2Z 139965        | —       | 26       |
| 2CZ 139880       | —       | 12       | 2Z 139966        | —       | 26       |
| 2CZ 139881       | —       | 12       | 2Z 139967        | —       | 26       |
| 2CZ 139882       | —       | 12       | 2Z 139968        | —       | 26       |
| 2CZ 139883       | —       | 12       | 2Z 139969        | —       | 26       |
| 2CZ 139884       | —       | 12       | 2Z 139970        | —       | 26       |
| 2CZ 139885       | —       | 12       | 2Z 139971        | —       | 26       |
| 2CZ 139886       | —       | 12       | 2Z 139972        | —       | 26       |
| 2CZ 139887       | —       | 12       | 2Z 139973        | —       | 26       |
| 2CZ 139888       | —       | 12       | 2Z 139974        | —       | 26       |
| 2CZ 139889       | —       | 12       | 2Z 139975        | —       | 26       |
| 2CZ 139890       | —       | 12       | 2Z 139976        | —       | 26       |
| 2CZ 139891       | —       | 12       | 2Z 139977        | —       | 26       |
| 2CZ 139892       | —       | 12       | 2Z 139978        | —       | 26       |
| 2CZ 139893       | —       | 12       | 2Z 139979        | —       | 26       |
| 2CZ 139894       | —       | 12       | 2Z 139980        | —       | 26       |
| 2CZ 139895       | —       | 12       | 2Z 139981        | —       | 26       |
| 2CZ 139896       | —       | 12       | 2Z 139982        | —       | 26       |
| 2CZ 139897       | —       | 12       | 2Z 139983        | —       | 26       |
| 2CZ 139898       | —       | 12       | 2Z 139984        | —       | 26       |
| 2CZ 139899       | —       | 12       | 2Z 139985        | —       | 26       |
| 2CZ 139900       | —       | 12       | 2Z 139986        | —       | 26       |
| 2CZ 139901       | —       | 12       | 2Z 139987        | —       | 26       |
|                  |         |          | 2Z 139988        | —       | 26       |
|                  |         |          | 2Z 140052        | —       | 13       |
|                  |         |          | 2Z 140053        | —       | 13       |

Only assemblies in heavy type are of current manufacture



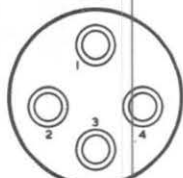
7

Nine 7A



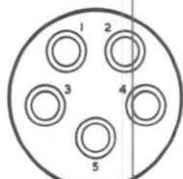
8

Two 7A  
Four 19A



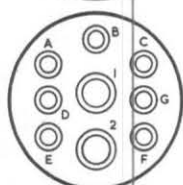
9

Four 19A



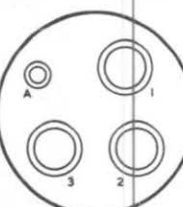
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Five 19A



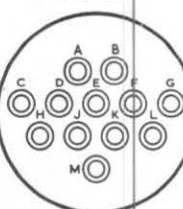
11

Seven 7A  
Two 19A



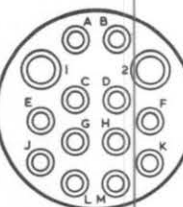
12

One 7A  
Three 37A



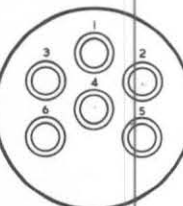
13

Twelve 7A



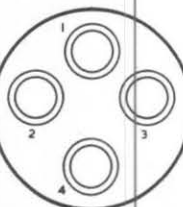
14

Twelve 7A  
Two 19A



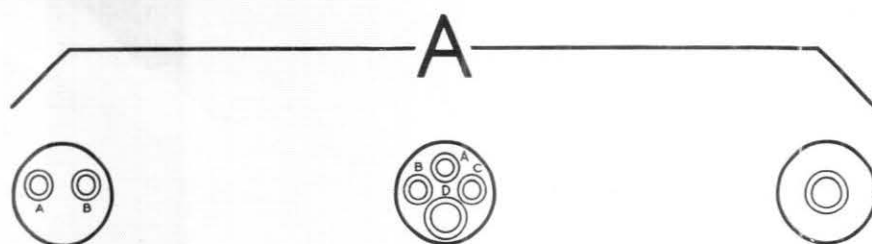
15

Six 19A



16

Four 37A



1

Two 7A

2

Three 7A  
One Sp. 7A

3

One 19A

## CONTACT COMBINATIONS

### 6 SIZES AND 23 CONTACT COMBINATIONS

The diagrams on this page represent the twenty-three different contact combinations available with Standard plugs and sockets. Each combination is coded so that by reference to this page in conjunction with the appropriate tables on pages 8 to 12, full details of all assemblies may be noted. The current-carrying capacity, varying from 7 amp. to 64 amp., is indicated on each diagram. Each contact is identified by a letter or number which is clearly marked on the mouldings of plugs and sockets. Reverse sockets, one of which is necessary when using bulkhead plugs, in addition to the normal socket, are marked in reverse to ensure continuity of the coding system throughout the circuit. A reverse socket may be identified by the letter "A" on the moulding.

It will be seen from the diagrams that plug and socket shells are made in six sizes, to accommodate the various contact arrangements. These sizes must be noted when ordering accessories for plugs and sockets, such as sealing caps or ferrules, which vary with the body size but not necessarily with the contact combinations.

All plugs and sockets with contact combinations listed on this page are standard items, and are particularly recommended for use wherever possible as delivery conditions and price for special types are less favourable.

KEEP THIS PAGE OPEN FOR EASY REFERENCE

DIAGRAMS ARE ACTUAL SIZE

VIEWS FROM MATING END OF NORMAL SOCKET

## STANDARD PLUGS AND SOCKETS

4

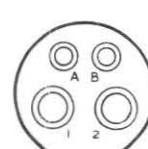
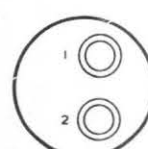
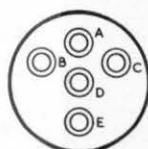
Five 7A

5

Two 19A

6

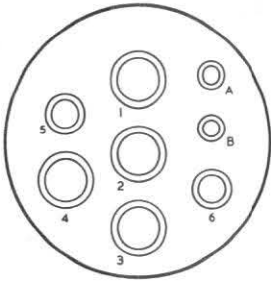
Two 7A  
Two 19A



Z

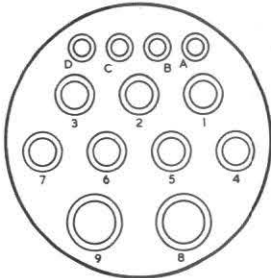
17

Two 7A  
Two 19A  
Four 37A



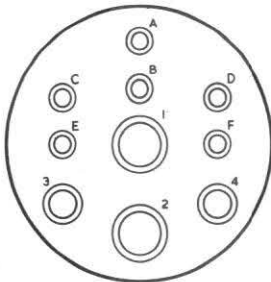
18

Four 7A  
Seven 19A  
Two 37A



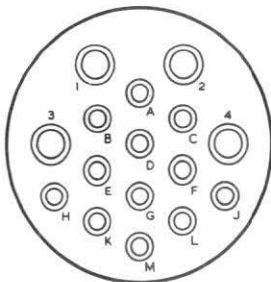
19

Six 7A  
Two 19A  
Two 37A



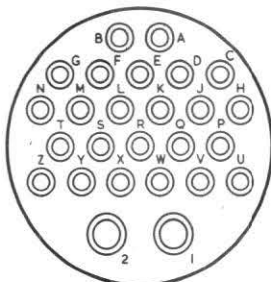
20

Twelve 7A  
Four 19A



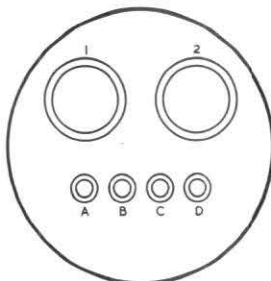
21

Twenty-four 7A  
Two 19A



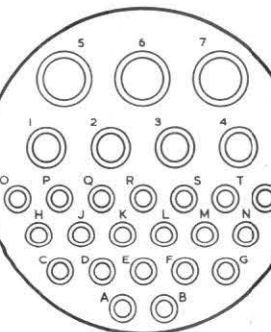
22

Four 7A  
Two 64A



23

Twenty 7A  
Four 19A  
Three 37A



D

E



Products of the

**Plessey**

Group of Companies

The Plessey activity is divided into five main Groups, four of these being concerned with manufacturing equipment such as that listed below, the fifth, Plessey International Ltd., being concerned solely with overseas sales. The four manufacturing Groups are divided into autonomous Divisions or Associated Companies each being equipped with its own Development and Production facilities.

### **Aircraft and Atomic Energy Group**

Actuators  
Aircraft Fuel Pumps  
Air Motor Rams  
Atomic Detection Gear  
Constant Speed Drives  
Control Panels  
Converters and Inverters  
DC and AC Generating Systems  
DC and AC Motors  
FHP Motors  
Health Physics Instruments  
Helicopter Winches  
High Temperature Screw Jacks  
Instrumentation  
Missile Power Packs  
Nucleonic Instrumentation  
Ram Air Turbines  
Relays and Flashers  
Resolvers  
Servo Motors and Systems  
Turbine Controls

### **Components Group**

Accelerometers  
Aerial Matching Units  
Air and Compression Trimmers  
Auto Selector Units, 12 Channel  
C Core Transformers  
Centring Units  
Ceramic Capacitors  
Ceramic Piece Parts  
Cermets (High Temp. Materials)  
Coils and Chokes  
Contactor Coils, Solenoids  
Deflector Coils  
Delay Lines  
Drive & Tuning Mechanisms & Knobs  
Dummy Loads for Wave Guides  
EHT and Scan Output Transformers  
Encapsulated Windings  
Ferrite Cored Inductors and Transformers  
Ferrites  
Filters  
Flake-iron Cores  
IF Transformers  
Infra-red Detectors  
Insulating Materials  
Interference Suppressors  
Ion Traps  
Iron dust cores  
Lampholders  
Loudspeakers  
Magnetic Reactors  
Memory Cores and Matrices

Output Transformers  
Pick-up Cartridges  
Piezoelectric Transducers  
Post Office Transformers  
Pulse Transformers  
Radar Absorbing Materials  
Relays, Standard and Miniature  
Services Approved Transformers  
Silicon Rectifiers  
Strain Gauges  
Switches and Switch Boxes  
Tantalum Electrolytic Capacitors  
Thermistors  
Transformers  
Tuners, Turret, F.M., etc.  
Turret Lugs  
UHF Components  
Valveholders  
Variable Capacitors  
Vibrators  
Voltage Regulating Relays  
Wavewound and Toroid Coils

### **Electronic and Equipment Group**

Aerial Exchanges  
Amplifiers  
Anglicisation of Electronic Equipment  
Business Machines  
Car Radio Receivers  
Coin Collecting Boxes  
Computing Equipment and Accessories  
Contents Gauges  
Counting Machines  
Data Transmission  
Dimensional Gauges, Capacity Type  
Direction Finding Equipment  
Diversity Receiving Systems  
Domestic Appliances  
Domestic Mains and Battery Receivers  
Electronic Industrial Control Equipment  
Electronic Measuring Equipment  
Electronic Muting Units  
Electro-optical Equipment  
Frequency Synthesis Equipment  
FSK Radio Equipment  
Guided Weapons Electronic Equipment  
Heat Detection Devices  
HF Transmitters and Receivers  
High Speed Oscilloscopes  
Infra-red Equipment  
Line Transmission Equipment  
Machine Tool Control Systems  
Military Mobile Communications Equipment

Moisture Meters  
Printed Circuits  
Radio-activity Survey Meters  
Radiograms  
Radio Teleprinter Equipment  
Remote Control Equipment  
Telemetry Equipment  
Telephone and Telegraph Power and Test Equipment  
Telephones  
Television Receivers  
Terminating and Power Feeding Equipment for Submerged Repeater Routes  
Test Equipment  
Transistorised Equipment  
Transistorised Power Packs  
UHF Communications Equipment (Airborne, Ground and Shipborne)  
Vehicle Communications Installations  
VHF and HF Airport Ground Equipment  
VHF Communications Equipment (Airborne and Ground)  
Voltage Regulators  
Wattmeters

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Cast Permanent Magnets  
Cold Moulded Insulating Materials  
Electrical Connectors and Fuse and Terminal Blocks  
Electrolytic Capacitors  
Flexible Seamless Metal Hoses  
Gauges, Drill Jigs and Fixtures  
High Speed Tools  
Hydraulic Control Valves  
Hydraulic Pumps and Rams  
Investment Castings  
Jigs and Press Tool Sets  
Loudspeaker Cones  
Machined Parts and Assemblies  
Metal Braiding and Flexible Conduit  
Miniature Ceramic Capacitors  
Moulded Fibre Products  
Paper Capacitors  
Potentiometers & Variable Resistors  
Powder Metallurgy Components  
Precision resistive elements  
Preformed Wiring  
Record Changers  
Refrigeration Components  
Resistors  
Sheet Metalwork and Presswork  
SHF Connectors  
Switchgear  
Transistors

The design and productive capacity of the Company's main plant at Ilford, and its associate factories in other centres, are such that the organisation can offer a unique service to manufacturers in the electronic, electrical, and precision mechanical engineering fields. Literature is available on the majority of the equipment listed above, and will gladly be sent on request.

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