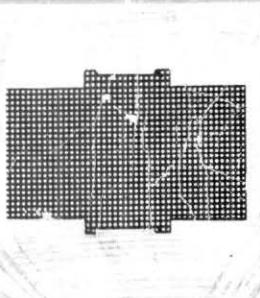
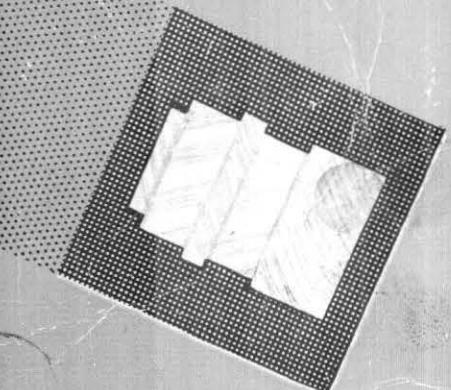


# **Standard Plugs & Sockets**



**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.

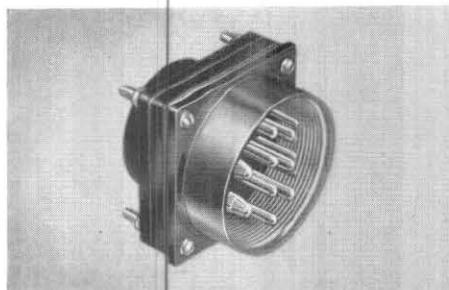
Intensive development has been carried out to improve the temperature conditions, altitude and general electrical characteristics of these connectors with the result that the range illustrated in this publication is capable of operating between ambient temperatures of  $-65^{\circ}\text{C}$ . and  $+150^{\circ}\text{C}$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

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).

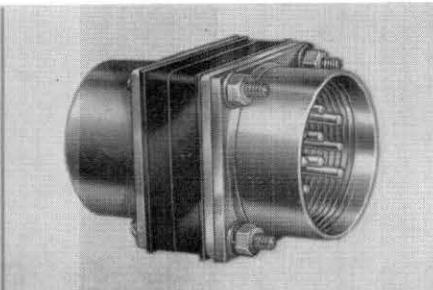
Certain items however cannot be considered to be interchangeable in certain circumstances and have therefore been classified as “obsolete” in the index and production of small quantities may be undertaken to special order but a protracted delivery and special prices may prove unavoidable.

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

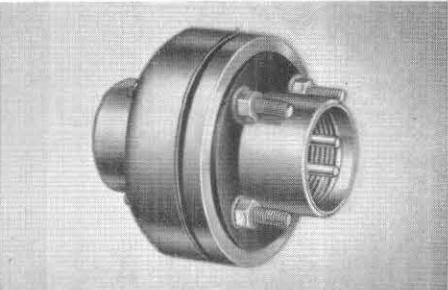
## RANGE OF STANDARD PLUGS & SOCKETS

**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)**

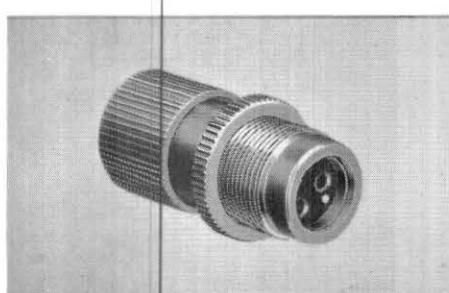
Double-ended for "breaks" on both sides of pressurised bulkheads. Suitable where a minimum leakage of 1 c.c. per hour is permissible at a pressure difference of 1 atmosphere. Available in aluminium only.

**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**

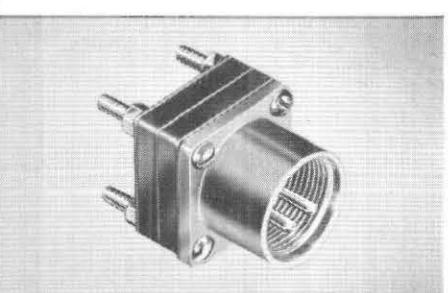
For use in confined space. Soldered connections, with shell in aluminium or steel.

**Thermo-couple plug and socket**

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

**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 $-65^{\circ}$ C. to $+150^{\circ}$ 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 $1,200^{\circ}$ 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.

## 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	Pressurised	Steel
						Climatic	Climatic	Climatic		Climatic
<b>A</b>	1	2	—	—	—	2CZ 111223	2CZ 108906	2CZ 111413	2CZ 138097	2CZ 84864
	2	4	—	—	—	111399	84870	111414	138099	84865
	3	—	1	—	—	111400	108907	111415	138096	108925
<b>Z</b>	4	5	—	—	—	111401	85945	111416	138104	108926
	5	—	2	—	—	111402	108908	111417	138098	108927
	6	2	2	—	—	111403	108909	111418	138100	108928
<b>B</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
<b>C</b>	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
<b>D</b>	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
<b>E</b>	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.

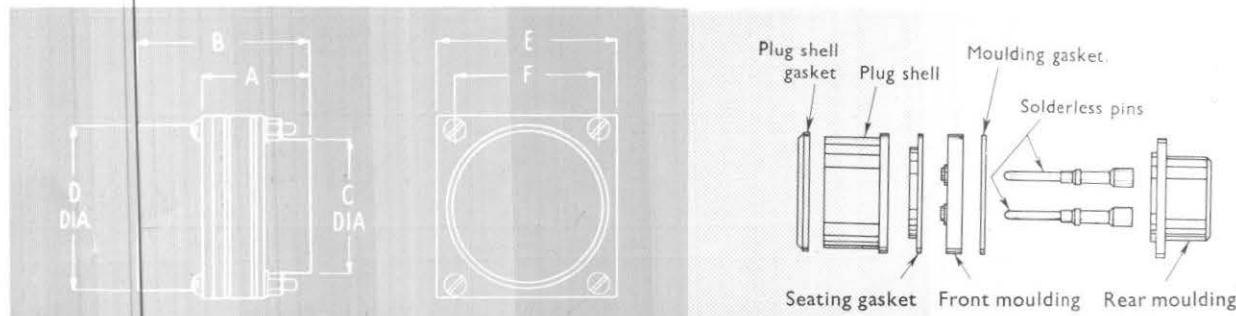
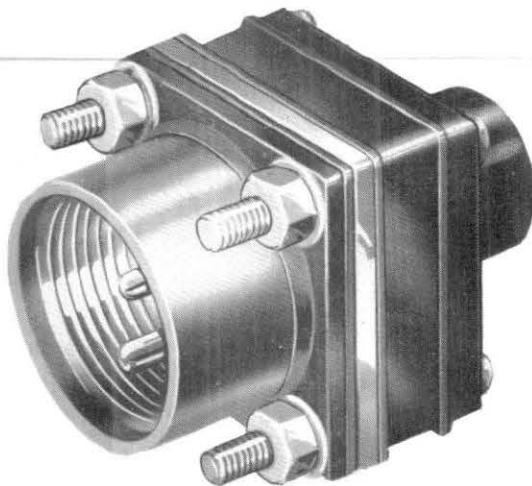
### SOCKETS

Body Size	Code *	Contact Combination				NORMAL		REVERSE (BULKHEAD)	
		7A	19A	37A	64A	Aluminium	Steel	Aluminium	Steel
						Vib. proof and Climatic			
<b>A</b>	1	2	—	—	—	2CZ 111230	2CZ 84872	2CZ 111448	2CZ 84879
	2	4	—	—	—	111231	84873	111449	84880
	3	—	1	—	—	111232	108943	111232	108943
<b>Z</b>	4	5	—	—	—	111233	84874	111451	108959
	5	—	2	—	—	111436	108944	111452	108960
	6	2	2	—	—	111437	108945	111453	108961
<b>B</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
<b>C</b>	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
<b>D</b>	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
<b>E</b>	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.

## 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.

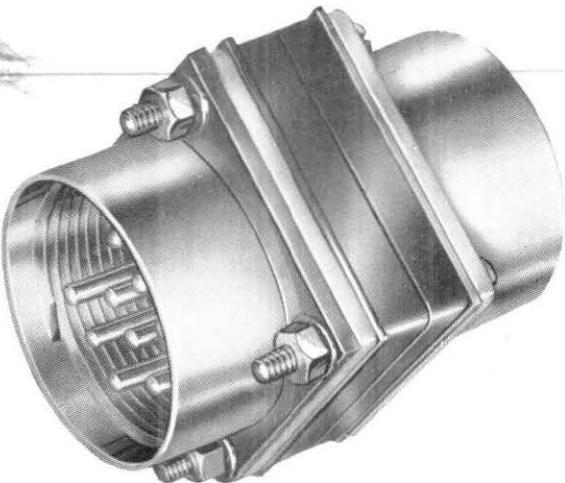


NOTE: A brass backing plate is to be introduced for use behind the rear moulding in order to prevent any damage by undue tightening of the fixing screws.

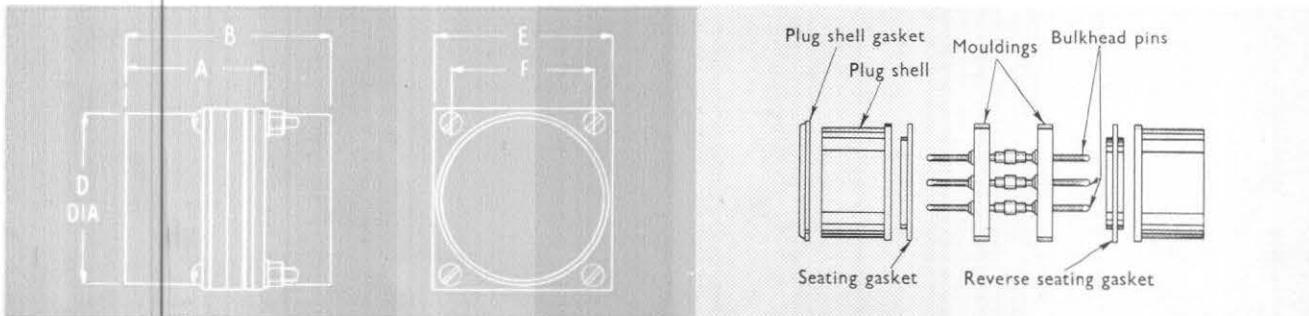
Body Size	CONTACTS				ALUMINIUM			STEEL			A	B	C dia.	D dia.	E sq.	F crs. sq.	Fixing holes
	7 A.	19 A.	37 A.	64 A.	Part No.	A/M Ref.	Weight oz.	Part No.	A/M Ref.	Weight oz.							
A	2	—	—	—	2CZ 111223	5X/ 7139	.8	2CZ 108906	5X/ 7108	1.1	-941	1.384	.497	.781	.937	.720	6BA
	4	—	—	—	111399	7140	.8	84870 108907	7030 7050	1.2							
	—	—	—	—	111400	7141	.8			1.1							
Z	5	—	—	—	111401	7142	1.1	85945 108908	7032 7109	1.4	-941	1.509	.679	.934	1.125	.875	6BA
	2	—	—	—	111402	7143	1.1	108909	7110	1.4							
	2	—	—	—	111403	7144	1.2			1.5							
B	9	—	—	—	111224	7145	1.5	84871 108910	7033 7111	1.9	-941	1.509	.897	1.153	1.250	1.000	6BA
	2	—	—	—	111404	7146	1.6	108911	7112	2.0							
	—	—	—	—	111299	7147	1.5			2.0							
C	—	—	—	—	111405	7148	1.6	108912 108913	7113 7034	2.1	-941	1.509	.897	1.153	1.250	1.000	6BA
	—	—	—	—	111225	7149	1.6	2.0									
	—	—	—	—	111406	7150	2.0	108914 108915	7031 7035	2.5							
D	1	—	3	—	111226	7151	1.9	108916	7036	2.4	-941	1.509	1.047	1.341	1.437	1.187	6BA
	12	—	—	—	111227	7152	2.0			2.5							
	12	—	2	—	111297	7153	2.0	108917 108918	7114 7115	2.5							
E	—	—	6	—	111298	7154	2.2	108919 108920	—	2.7	-941	1.509	1.672	1.965	2.000	1.687	4BA
	—	—	4	—	111407	7155	3.0			3.7							
	4	—	2	—	111408	7156	3.1	108920	—	3.9							
D	6	—	2	—	111409	7157	2.9	108921	—	3.6	-941	1.509	1.416	1.715	1.750	1.469	6BA
	12	—	4	—	111410	7158	2.8	108922 108923	7116 7037	3.6							
	24	—	2	—	111229	7159	2.9	108924	7117	3.6							
E	4	—	2	—	111411	7445	2.4	108924	7117	3.2							

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.

## 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.

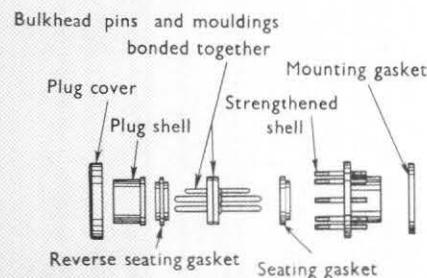
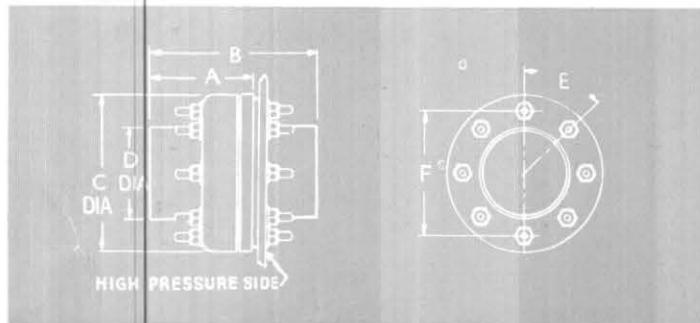


Body Size	CONTACTS				ALUMINIUM			STEEL			A	B	D dia.	E sq.	F crs. sq.	Fixing holes
	7 A	19 A	37 A	64 A	Part No.	A/M Ref.	Weight oz.	Part No.	A/M Ref.	Weight oz.						
A	2	—	—	—	2CZ	5X/ 7161	1.0	2CZ	5X/ 7021	1.6	1.182	1.625	.781	.937	.720	6BA
	4	—	—	—	111413	—	1.0	84864	7022	1.6						
	—	1	—	—	111414	7162	1.0	84865	7119	1.6						
Z	5	—	—	—	111416	7163	1.3	108926	7120	2.0	1.307	1.875	.934	1.125	.875	6BA
	—	2	—	—	111417	7164	1.3	108927	7121	2.0						
	2	2	—	—	111418	7165	1.4	108928	7122	2.1						
B	9	—	—	—	111419	7166	1.6	84866	7025	2.6	1.307	1.875	1.153	1.250	1.000	6BA
	2	4	—	—	111420	—	1.9	108929	7123	2.8						
	—	4	—	—	111421	—	1.8	108930	7023	2.7						
C	—	5	—	—	111422	—	1.9	108931	7124	2.9	1.307	1.875	1.341	1.437	1.187	6BA
	7	2	—	—	111423	7167	1.8	108932	7026	2.8						
	—	—	3	—	111424	—	2.4	108933	7024	3.4						
D	1	—	—	—	111425	7168	2.1	84867	7027	3.2	1.307	1.875	1.341	1.437	1.187	6BA
	12	2	—	—	111426	7169	2.3	84868	7028	3.4						
	—	6	—	—	111427	—	2.3	108934	—	3.4						
E	—	—	4	—	111428	7170	2.6	108935	7125	3.7						
	2	2	4	—	111429	—	3.5	108936	—	5.1	1.307	1.875	1.715	1.750	1.469	6BA
	4	7	2	—	111430	—	3.3	108937	—	5.0						
D	6	2	2	—	111431	7448	3.2	108938	—	4.7						
	12	4	—	—	111432	—	3.1	108939	—	4.7						
	24	2	—	—	111433	7171	3.2	84869	7029	4.8						
E	4	—	2	—	111434	7377	3.7	108940	—	5.2						
	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.

## 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 —	— 4 —	— — —	— — —	2CZ 138097 138099 138096	5X/ — —	2.1 2.2 2.0	1.201	1.763	1.572	.781	90	1.018	4	6BA
Z	5 —	— 2 —	— — —	— — —	138104 138098 138100	— — —	2.5 2.5 2.7	1.327	2.036	1.812	.934	90	1.237	4	6BA
B	9 —	— 4 —	— — —	— — —	138246 138106 138101 138105 138247	— — — — —	3.5 3.9 3.3 4.0 3.3	1.327	2.036	2.000	1.153	45°	1.414	8	6BA
C	1 12 —	— 2 —	3 — —	— — —	138102 138111 138113 138107 138103	— — — — —	4.8 4.4 4.7 4.4 5.6	1.327	2.036	2.312	1.341	45°	1.678	8	6BA
D	2 4 6 12 24 4	2 7 2 — 2 —	4 — — — — 2	— — — — — —	138109 138112 138110 138114 138115 138108	— — — — — —	7.5 6.8 6.5 5.9 6.0 6.2	1.327	2.036	2.687	1.715	45°	2.076	8	6BA
E	20 —	4 —	3 —	—	138116	—	7.9	1.327	2.036	3.062	1.965	45°	2.386	8	4BA

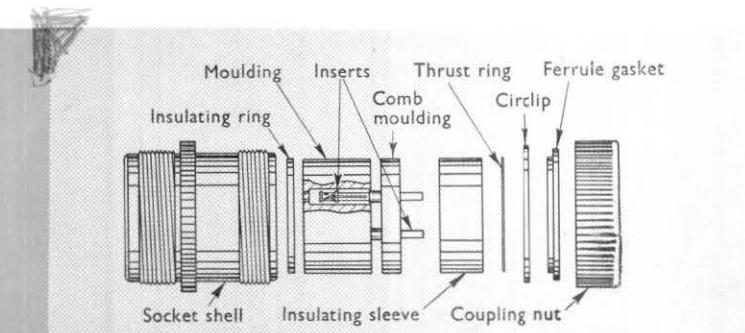
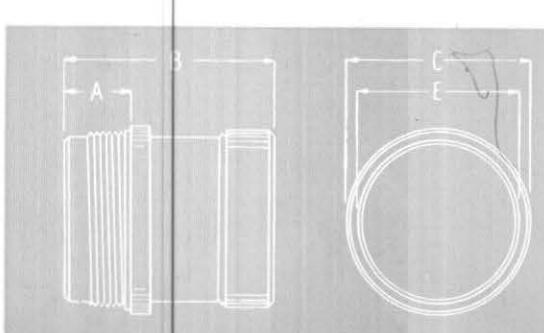
Illustrations of the various contact arrangements are shown on the folded sheet facing page 39. Suitable mating sockets for these plugs are listed on page 11. Panel piercing details are shown on page 14. All dimensions are in inches.



## 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.

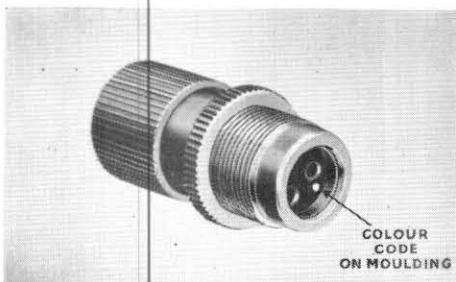
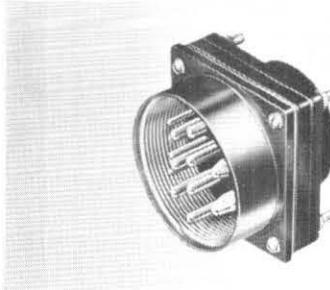


Body Size	CONTACTS				ALUMINIUM (Climatic and vibration proof)						STEEL (Climatic and vibration proof)						A	B'	C dia.	E dia. Thread					
	7 A	19 A	37 A	64 A	Part No.		A/M Reference		Wt. oz.	Part No.		A/M Reference		Wt. oz.											
					Normal	Reverse	Normal	Reverse		Normal	Reverse	Normal	Reverse												
A	2	—	—	—	2CZ 111230	2CZ 111448	5X/ 7172	5X/ 7194	.8	2CZ 84872	2CZ 84879	5X/ 7038	5X/ 7051	1.7	—	—	—	—	—	—	—				
	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	84874	108959	7128	7134	2.5	—	—	—	—	—	—				
	2	2	—	—	111436	111452	7176	7198	1.2	108944	108960	7044	7042	7135	2.5	—	—	—	—	—	—				
B	2	2	—	—	111437	111453	7177	7199	1.2	108945	108961	7042	7042	7135	2.5	—	—	—	—	—	—				
	9	—	—	—	111234	111454	7178	7200	1.6	84875	84881	7045	7055	3.0	—	—	—	—	—	—	—				
	2	4	—	—	111438	111455	7179	—	1.7	108946	108962	7129	7136	3.1	—	—	—	—	—	—	—				
C	—	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	—	—	—	—	—	—	—				
D	1	—	3	—	111441	111459	7183	—	2.4	108950	108966	7041	7054	4.4	—	—	—	—	—	—	—				
	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	—	—	—	—	—	—	—				
E	—	4	—	—	111237	111463	7187	7204	2.4	108952	108968	7131	7138	4.4	—	—	—	—	—	—	—				
	2	2	4	—	111442	111464	7188	—	4.0	108953	108969	7132	—	7.0	—	—	—	—	—	—	—				
	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	—	—	—	—	—	—	—				
D	24	2	—	—	111238	111468	7192	7205	4.1	108978	108984	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	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.

## 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					Plug Shell	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.)							
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	II	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 I, 2, 3, 4	7 19	Constantan	A,B,C,E,F,G,H, J,K,L,N,P,R,T S, 6, 7	7 37	Brass   Brass   Brass	Steel	2CZ 139911	—	—	2CZ 139912	—

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

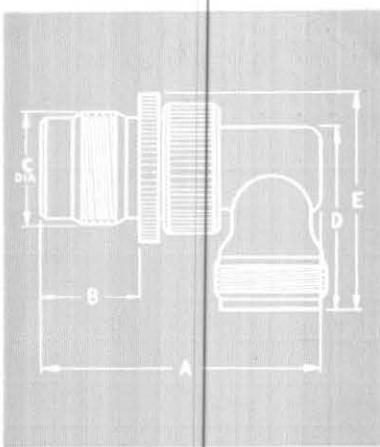
NOTE: It is recommended that all thermo-couple plug pin and socket inserts are soldered notwithstanding the fact that in certain instances they are supplied to a design which permits crimping.

## 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.

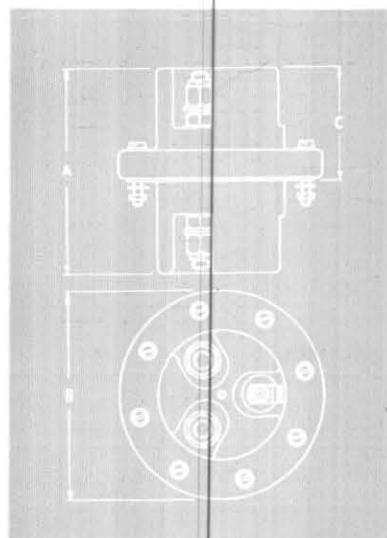
Body Size	Shell	Contact Combination	Part No.	A/M Ref.	A	B	C	Weight oz.	Suitable Mating Socket
A	Alum.	Two 7A	2CZ 140052	—	1.019	.784	.937		2CZ 111230
A	Steel	Two 7A	2CZ 140053	—	1.019	.784	.937		2CZ 84872

### 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.

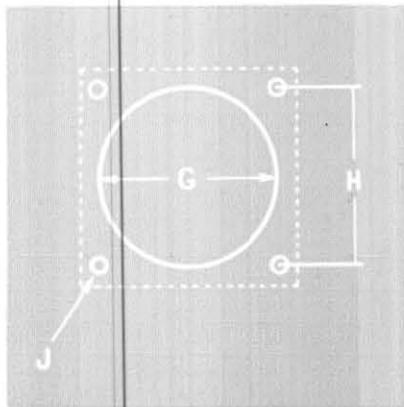
Connections	Part No.	A/M Ref.	A	B Dia.	C	Weight oz.	Cover	
							Part No.	A/M Ref.
Three 200A	CZ 51091	5H/112	3.62	3.62	1.937	19.6	Z 51094	5H/111
Two 200A One 19A	CZ 51097	5H/110	3.62	3.62	1.937	18.2	Z 51094	5H/111

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.



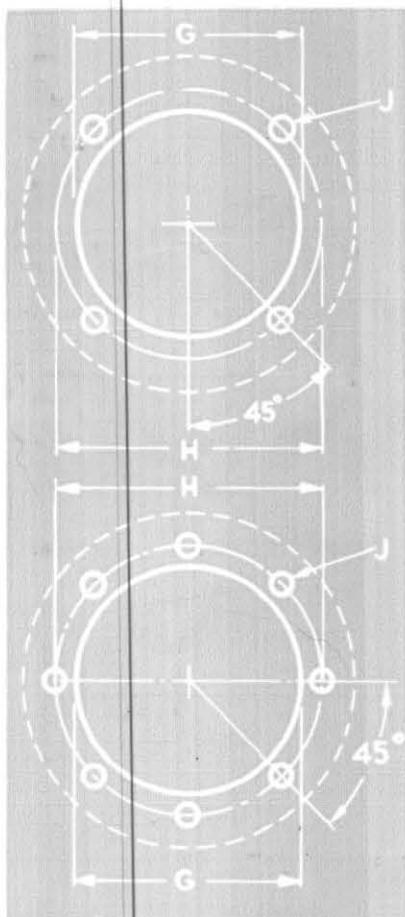
## PANEL PIERCING DETAILS

### 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

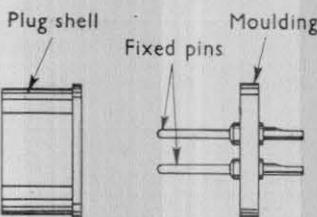
Description	For Assemblies listed on page	Material	Part Numbers					
			A	Z	B	C	D	E
Plug Shell	8, 9 & 12	Aluminium	Z 49249	Z 49251 *Z 49252	Z 24923 *Z 24932	Z 24924 *Z 24933	Z 24925	Z 49278
		Steel	2Z 109905	2Z 111186 *2Z 109933	2Z 111189 *2Z 109906	2Z 109908 *2Z 109907	2Z 109909	2Z 111184
Plug Shell 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

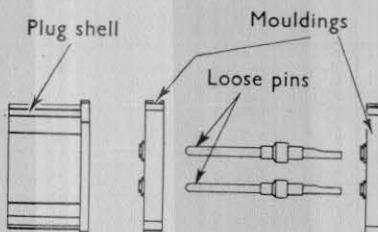
†The Socket Sealing Gasket will be supplied with all sockets for use should the socket be required to mate with earlier versions of the Standard plugs. When mating assemblies are both of the uprated version, the gasket should be discarded.

## 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.

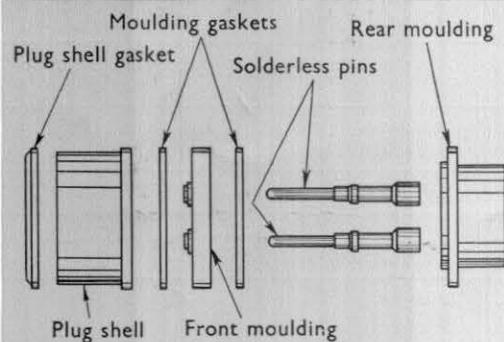


### STAGE 2 (Loose Pin)

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 (Uprated Type)

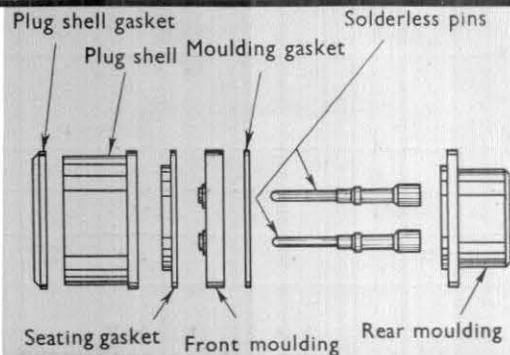
Current production version. The introduction of the uprated range to operate between ambient temperatures of  $-65^{\circ}\text{C}$ . and  $+150^{\circ}\text{C}$ .

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.

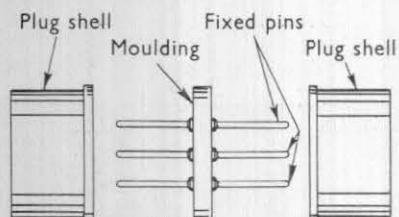
A brass backing plate behind rear moulding to be introduced.



# EVOLUTION OF THE BULKHEAD PLUG

## STAGE 1 (Fixed Pin)

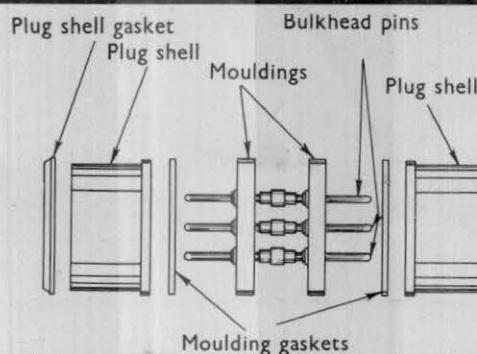
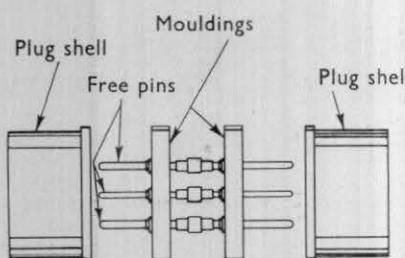
The original design of the "Breeze" bulkhead plug, consisting of one moulding in a phenolic material with the special plug pins moulded into position.



## STAGE 2 (Loose Pin)

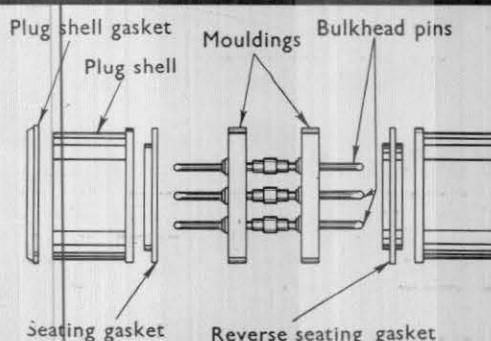
Two identical mouldings introduced, each with a stepped creepage barrier round the base of the plug pins to increase creepage distance without altering pin centres.

The bulkhead plug pins being sandwiched in position between the two mouldings.



## STAGE 3 (Climatic Proof)

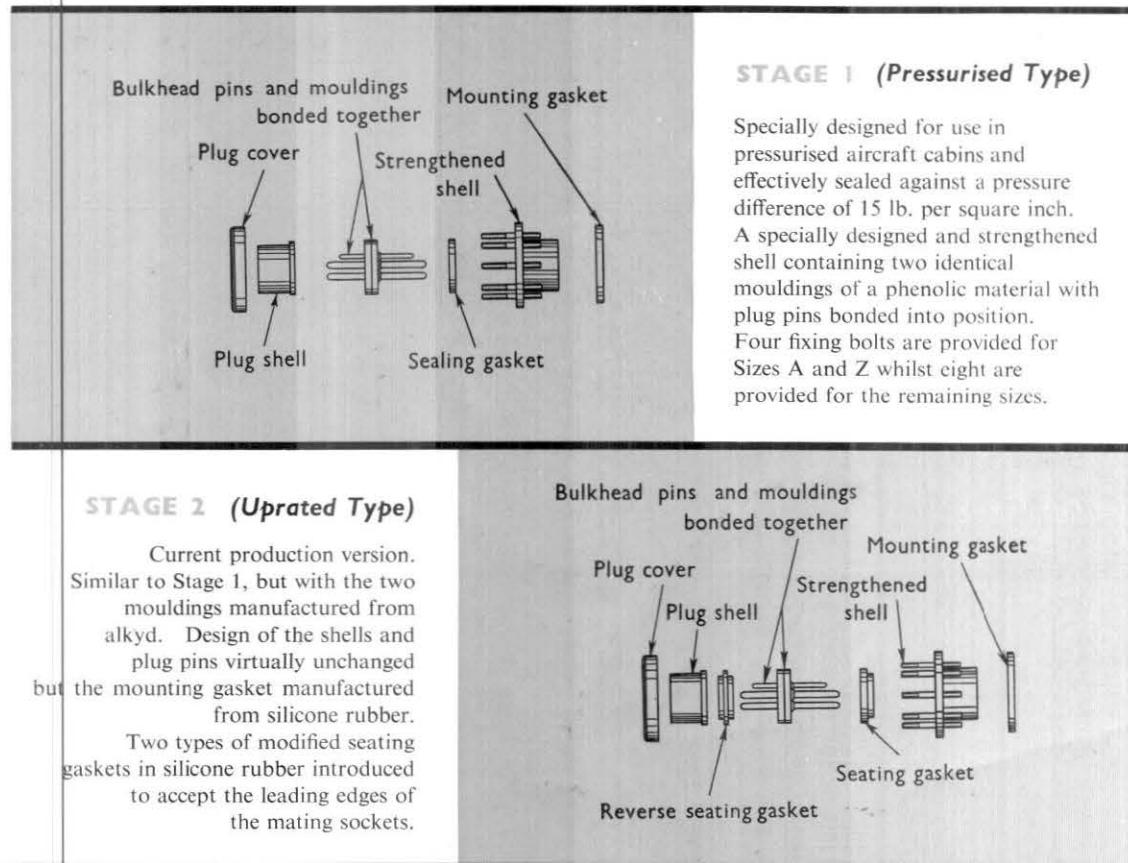
The introduction of rubber moulding gaskets and plug shell gasket, designed to make the connector proof against all climatic conditions other than those of full exposure.



## STAGE 4 (Uprated 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



## 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
<b>ORIGINAL TYPE</b> For use with Pressed Comb	<b>ROLLED TYPE</b> For use with Moulded Comb	<b>SOLID-END CRIMP TYPE</b> For use with Pressed Comb	<b>CIRCLIP TYPE</b> For use with Pressed Comb	<b>CIRCLIP TYPE</b> For use with Moulded Comb	

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.

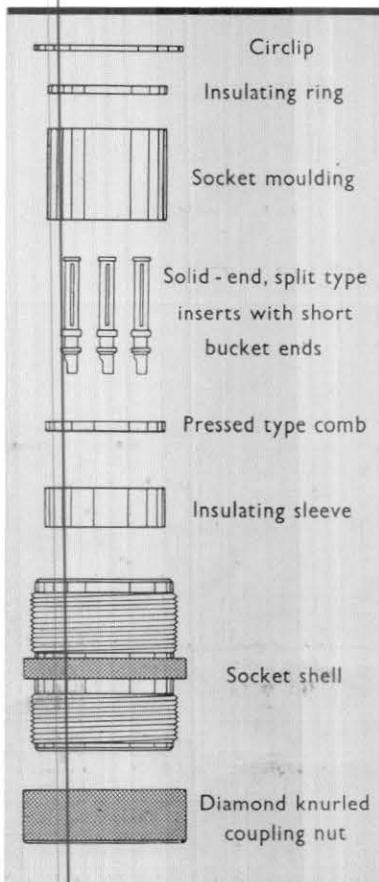
STAGE 2 was introduced during World War II due to the shortage of machining capacity and was redesigned to be a simple press operation. Although ideally suitable for a soldered connection, a crimped joint could be made by using a suitable thimble.

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.

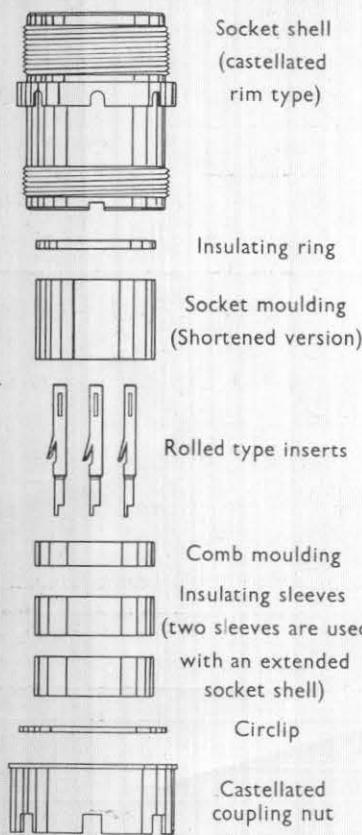
The illustration of Stage 5 is applicable to the 7 amp. and 7 amp. special contacts only. All are suitable for a soldered or crimped joint without the use of thimbles.

# EVOLUTION OF THE STANDARD SOCKET



## STAGE 1

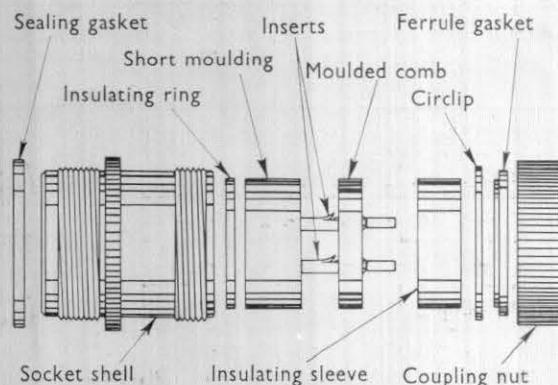
The original design of the "Breeze" socket containing a long socket moulding in a phenolic material with a pressed comb and short, turned type socket inserts. Suitable only for a soldered connection. The circlip retaining the moulding in the shell was positioned at the front end of the assembly.



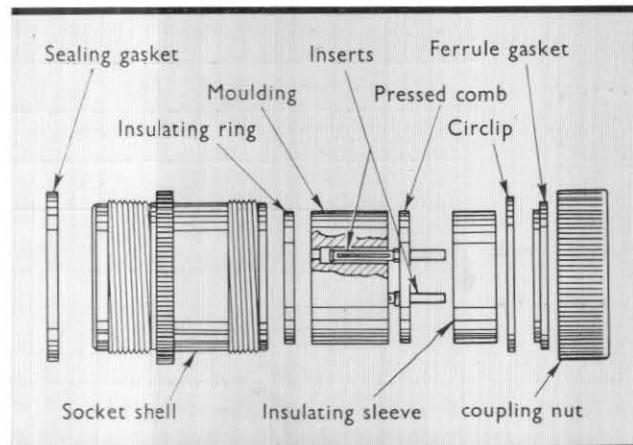
## STAGE 2

A redesigned shell and coupling nut containing a shortened socket moulding and a comb moulding with rolled type socket inserts. Suitable for a soldered or crimped connection with suitable thimble. The circlip retaining the mouldings repositioned at the rear of the assembly. The socket shell lengthened for sizes D, E and F, two insulating sleeves being used.

**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



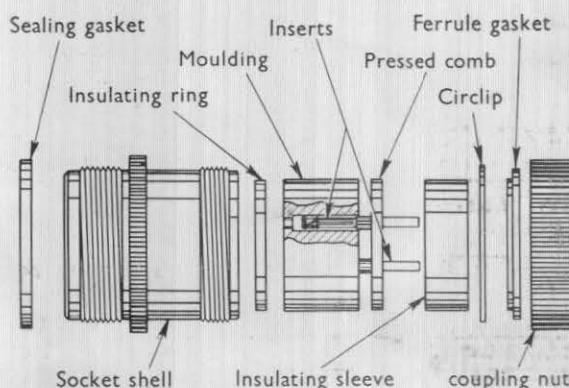
### STAGE 4

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

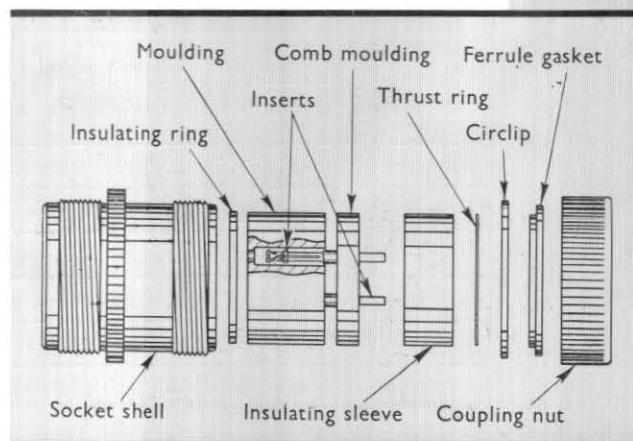
The introduction of the improved circlip type socket insert—designed to eliminate defects discovered in contact mating.  
All other items identical to Stage 4 design.

Air Ministry reference number unchanged but allocated the suffix "/B".



### STAGE 6

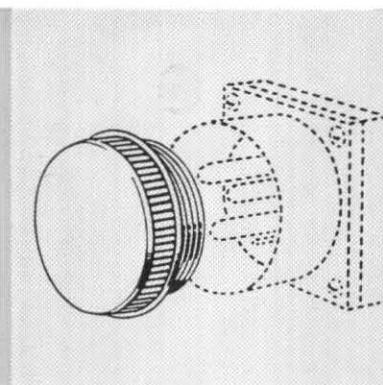
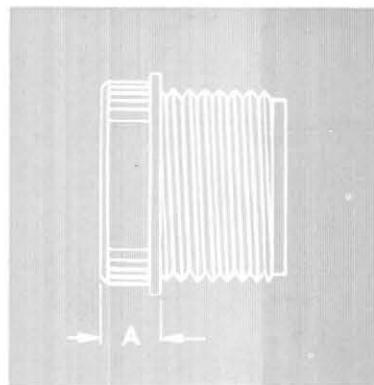
Current production version.  
The introduction of the uprated range to operate between ambient temperatures of  $-65^{\circ}\text{C}$ . and  $+150^{\circ}\text{C}$ .  
Socket moulding and comb moulding manufactured from alkyd. Insulating sleeve and washer manufactured from glass fibre and P.T.F.E. coated.  
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)

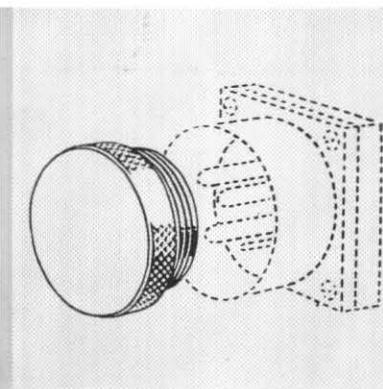
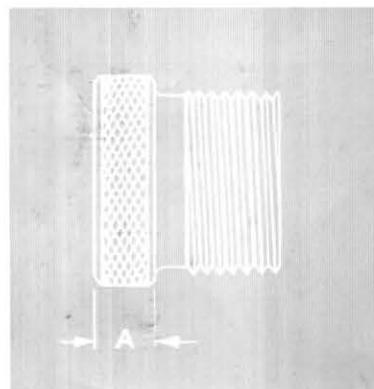
*Designed to prevent the ingress of dust or moisture when the plug is not in use.*



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

### PLUG SCREENING CAPS (Aluminium)

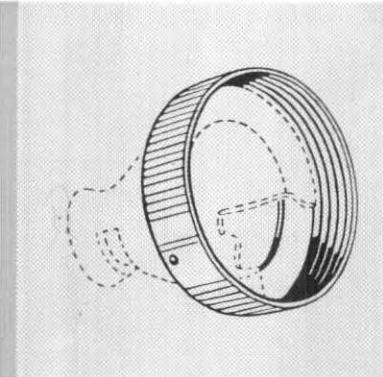
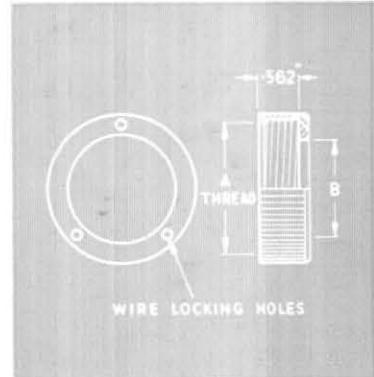
*Designed to prevent the ingress of dust or moisture when the plug is not in use.*



Size	Part No.	A/M Ref.	A	Weight oz.
<b>A</b>	Z 13031	5X/1097	.250	.20
<b>Z</b>	Z 13106	5X/1088	.250	.29
<b>B</b>	Z 13032	5X/1089	.250	.37
<b>C</b>	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.*



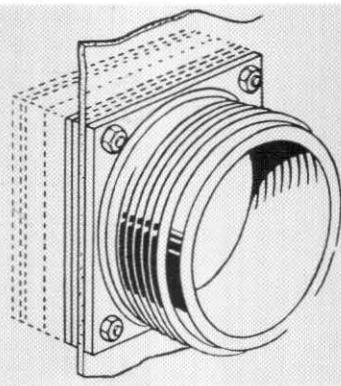
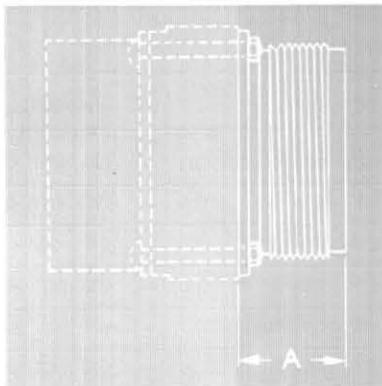
Size	ALUMINIUM			STEEL (Nickel Plated)			A	B
	Part No.	A/M Ref.	Weight oz.	Part No.	A/M Ref.	Weight oz.		
<b>A</b>	Z 61535 6312	5X/6312	.11	2Z 109915	—	.34	.692x24 T.P.I.	.585
<b>Z</b>	Z 61536 6500	5X/6500	.18	2Z 109916	—	.53	.875x20 T.P.I.	.723
<b>B</b>	Z 61537 6405	5X/6405	.21	2Z 109917	—	.65	1.062x20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

All dimensions are in inches.

## PLUG & SOCKET ACCESSORIES

### PLUG SHROUDS (Aluminium or steel)

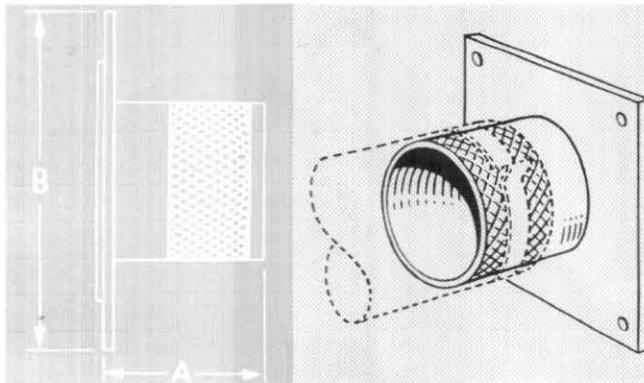
Designed for mounting at the rear of single plugs for the purpose of attaching cable fittings.



Size	ALUMINIUM			STEEL (Nickel Plated)			A
	Part No.	A/M Ref.	Wt. oz.	Part No.	A/M Ref.	Wt. oz.	
<b>A</b>	Z 1499	5X/282	.2	2Z 139928	5X/—	.3	.750
<b>Z</b>	1500	283	.3	139929	—	.8	.750
<b>B</b>	1275	284	.3	139930	—	.9	.750
<b>C</b>	1688	285	.4	139931	—	1.3	.750
<b>D</b>	1690	286	.6	139932	—	1.7	.750
<b>E</b>	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.

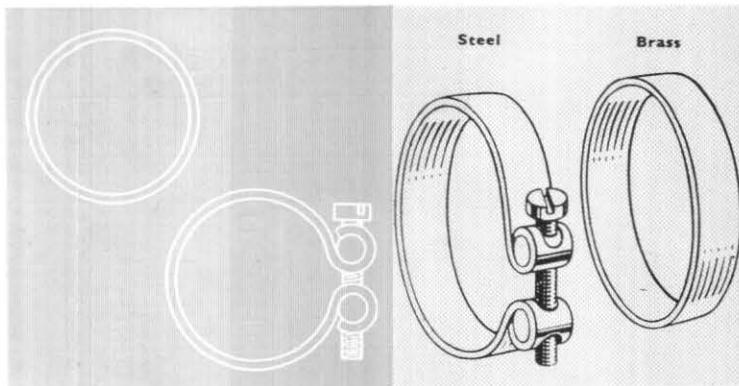


Size	Part No.	A/M Ref.	Ferrule size	Tubing size	A	B	Wt. oz.	Clamp Ring	A/M Ref.
<b>A</b>	CZ 24626	5X/6850	A	3/8	.722	1.000	.27	Z 18501/A	5X/1529
	CZ 24628	6631	Z	1/2	.909	1.000	.45	CZ 23144/Z	6440
<b>Z</b>	CZ 24632	6603	Z	1/2	.722	1.187	.35	CZ 23144/Z	6440
	CZ 24634	6797	B	5/8	.909	1.187	.54	CZ 23144/B	6488
<b>B</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
<b>C</b>	CZ 24642	—	B	5/8	.909	1.500	.46	CZ 23144/B	6488
	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
<b>D</b>	CZ 24648	6628	C	3/4	.909	1.812	.60	CZ 23144/C	6489
	CZ 24650	6180	D	1	.839	1.812	.35	CZ 23144/D	3143
	CZ 24652	—	E	1-1/4	1.026	1.812	1.12	CZ 23144/E	6490
<b>E</b>	CZ 24654	—	D	1	1.026	2.06	2.0	CZ 23144/D	3143
	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.



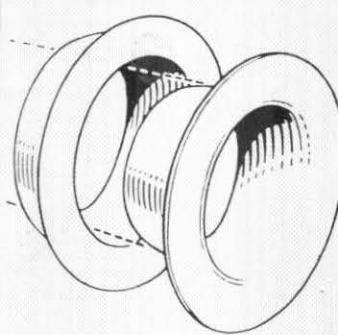
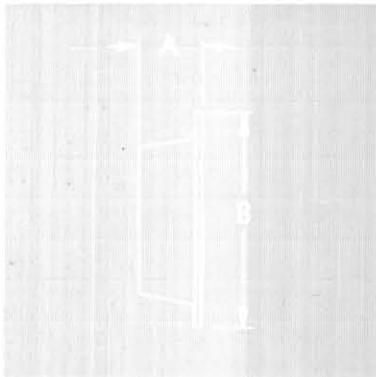
Size	PLAIN TYPE (BRASS) (Cadmium Plated)			SCREW TYPE (STEEL) (Cadmium Plated)		
	Part No.	A/M Ref.	Wt. oz.	Part No.	A/M Ref.	Wt. oz.
<b>A</b>	Z 18501/A	5X/1529	.04	—	—	—
<b>Z</b>	Z 18501/Z	5X/1530	.07	CZ 23144/Z	5X/6440	.24
<b>B</b>	Z 18501/B	5X/1531	.07	CZ 23144/B	5X/6488	.25
<b>C</b>	Z 18501/C	5X/1532	.09	CZ 23144/C	5X/6489	.26
<b>D</b>	Z 18501/D	5X/1533	.14	CZ 23144/D	5X/3143	.30
<b>E</b>	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)

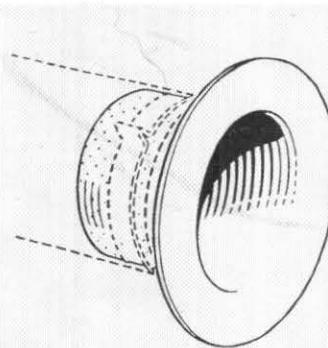
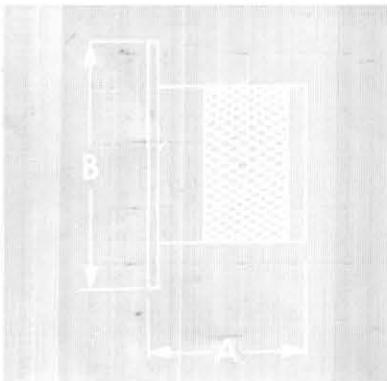
Designed to form a sound joint when using plastic tubing, loose braid or conduit.  
May be used on a socket or with a plug shroud and coupling nut.



Size	INNER					OUTER				
	Part No.	A/M Ref.	A	B	Wt. oz.	Part No.	A/M Ref.	A	B	Wt. oz.
A 2Z	I39934/A	5X/ —	.250	.628	.04	I39935/A	5X/ —	.256	.628	.04
Z	I39934/Z	—	.325	.800	.07	I39935/Z	—	.325	.800	.07
B	I39934/B	—	.360	.990	.10	I39935/B	—	.360	.990	.11
C	I39934/C	—	.395	1.175	.14	I39935/C	—	.395	1.175	.15
D	I39934/D	—	.450	1.547	.23	I39935/D	—	.450	1.547	.25
E	I39934/E	—	.562	1.795	.37	I39935/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.

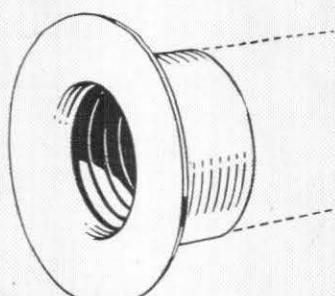
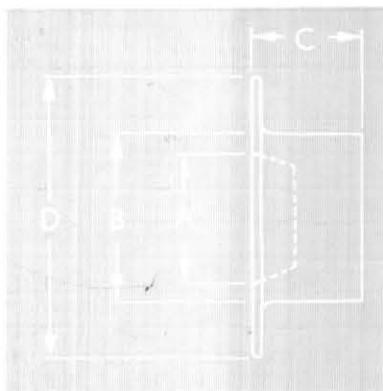


Size	STANDARD					OVERSIZE						
	Part No.	A/M Ref.	Tubing Size I/D	A	B	Wt. oz.	Part No.	A/M Ref.	Tubing Size I/D	A	B	Wt. oz.
Z	I8500/A	5X/ I522	.375	.750	.628	.14	I8764/A	I546	.500	.937	.628	.20
Z	I8500/Z	I523	.500	.750	.800	.19	I8764/Z	I547	.625	.937	.800	.21
B	I8500/B	I524	.625	.750	.990	.22	I8764/B	I548	.750	.937	.990	.34
C	I8500/C	I525	.750	.750	1.175	.30	I8764/C	I549	1.000	1.062	1.175	.53
D	I8500/D	I526	1.000	.875	1.547	.58	I8764/D	I550	1.250	1.062	1.547	.77
E	I8500/E	I527	1.250	.875	1.795	.81	I8764/E	2187	1.500	1.062	1.795	.96

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.



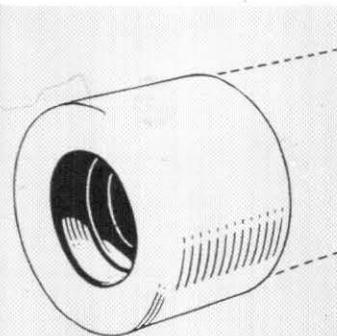
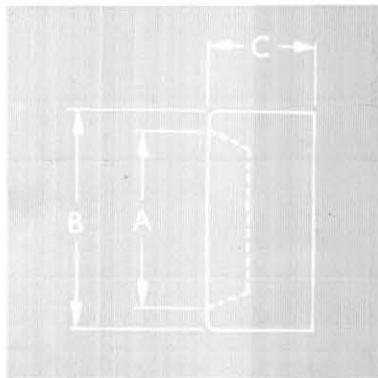
Size	Conduit Size	ALUMINIUM			BRASS (Nickel Plated)			A	B	C	D	
		Part No.	A/M Ref.	Wt. oz.	Part No.	A/M Ref.	Wt. oz.					
A	1/4 Z	I350	5X/ I570	.04	I39936/I	5X/ —	—	.09	.250	.447	.437	.628
	3/8 Z	I694	I344	.04	I39937	—	.11	.375	.572	.437	—	.628
Z	3/8 I	I442	I571	.05	I39936/12	—	.13	.375	.572	.437	—	.800
	1/2 I	I441	I343	.05	I39936/11	—	.14	.500	.697	.437	—	.800
B	3/8 Z	I369	I074	.06	I39936/2	—	.21	.375	.572	.437	—	.990
	5/8 Z	I359	I327	.07	I39936/4	—	.21	.625	.828	.500	—	.990
	1/2 I	I361	I328	.07	I39936/9	—	.19	.500	.697	.437	—	.990
C	5/8 Z	I353	I325	.09	I39936/10	—	.26	.625	.828	.500	—	1.175
	3/4 Z	I352	909	.08	I39936/5	—	.24	.750	.982	.500	—	1.175
D	3/4 I	I362	I329	.13	I39936/14	—	.30	.750	.982	.500	—	1.574
	1 I	I363	912	.15	I39936/6	—	.45	1.000	1.267	.562	—	1.574
E	I	I365	I330	.19	I39936/15	—	.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.

## PLUG & SOCKET ACCESSORIES

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

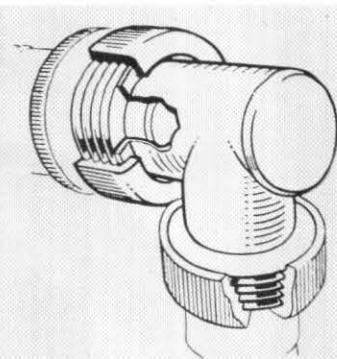
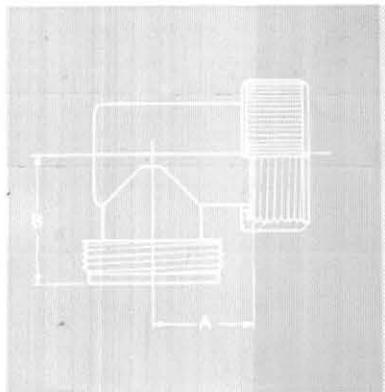
Designed for use with metal conduit and to be swaged or soldered into position.



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)

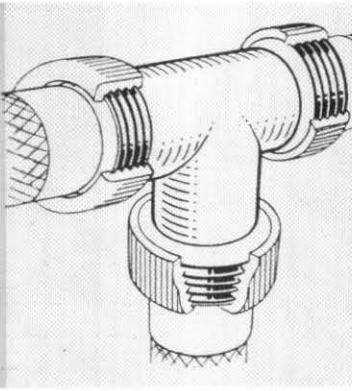
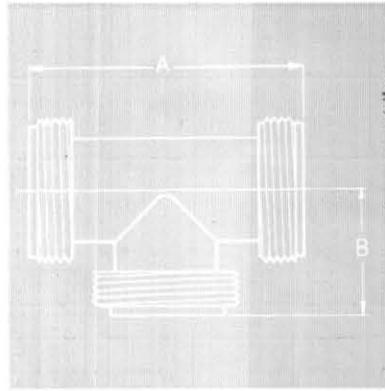
Designed to allow a right-angle entry into the rear of a socket or plug with a plug shroud.



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.

Stock  
2605

523140-4

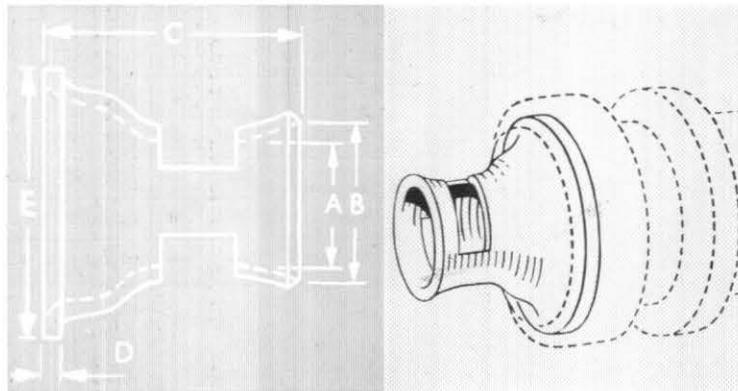
5935-991203-2

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.

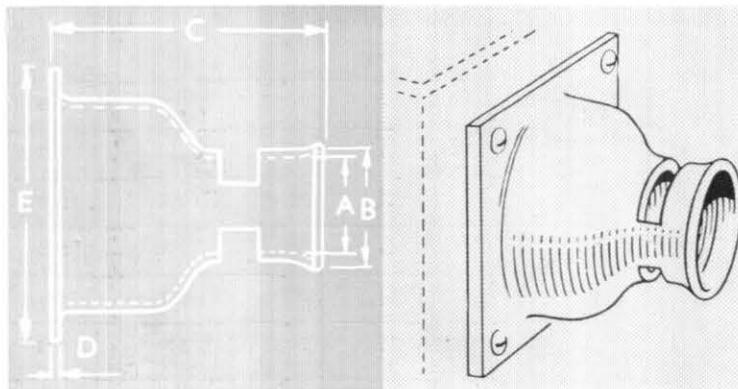


Size	Part No.	A/M Ref.	Wt. oz.	A	B	C	D	E
A	2Z							
	139956	—	.22	.275	.375	.625	.036	.625
	139957	—	.21	.355	.500	.687	.036	.625
	139958	—	.23	.405	.468	.625	.036	.625
Z	139959	—	.23	.442	.500	.687	.020	.625
	139960	—	.33			.750	.036	.800
B	139961	—	.33	.505	.625	.687	.020	.800
	139962	—	.42	.355	.500	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
C	139967	—	.43	.755	.812	.687	.020	.990
	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
D	139971	—	.46	.905	1.000	.875	.036	1.175
	139972	—	.68	.805	1.000	1.125	.036	1.550
E	139973	—	.78	1.005	1.281	1.125	.036	1.550
	139974	—	.95	1.205	1.500	1.125	.036	1.800
E	139975	—	.94	1.255	1.537	1.875	.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
Z	139978	—	.56	.405	.500	.750	.036	.937
	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
C	139985	—	.68	.905	1.000	.875	.036	1.250
	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/ No.	Plessey Part No. CZ	Page 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	*2129/A	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	*2118/A	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	*23344	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	2188	22580	32	6002	28180	33	6107	28201	33
50	1067	30	137	*1783-/2/3	30	21882	*22579/3	32	6003	28031	33	6108	28052	33
51	1053	30	138	*10349-/2/3	31	21883	*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	2810/2	33
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5X/ No.	Plessey Part No. CZ	Page 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/B	*111663	38	7131	*108952	11
6179	50355	34	6367	*60530	35	6704	64591	36	6842/B	*111676	36	7132	*108954	11
6181	50356	34	6368	*60531	35	6705	64599	36	6843	*71776	36	7134	*108959	11
6182	50357	34	6369	*60533	35	6707	*64183	36	6843/B	*111686	38	7135	*108961	11
6183	50359	34	6370	*56080	35	6717	60477	35	6844	*71772	36	7136	*108962	11
6184	50360	34	6371	*60499	35	6720	76498	36	6844/B	*111682	38	7137	*108964	11
6185	50361	34	6372	*56072	35	6744	83223	36	6845	*71766	36	7138	*108968	11
6186	50369	34	6373	*60509	35	6745	*83224	36	6845/B	*111668	38	7139	*11223	8
6188	*50398	34	6374	*56085	35	6761	50378	34	6846	*71780	36	7140	*11399	8
6189	*50399	34	6374/B	*111692	38	6772	*56084	35	6846/B	*111691	38	7141	*11400	8
6190	*50400	34	6375	*56089	35	6772/B	*111646	38	6847	*83851	36	7142	*11401	8
6191	*50401	34	6375/B	*111693	38	6773	*71748	36	6851	*71783	36	7143	*11402	8
6192	*50403	34	6376	*56093	35	6773/B	*111648	38	6851/B	*111719	38	7144	*11403	8
6193	*50404	34	6376/B	*111695	38	6774	*56104	35	6867	69865	36	7145	*11404	8
6194	*50405	34	6377	*56097	35	6774/B	*111653	38	6871	50392	34	7146	*11405	8
6195	*50408	34	6377/B	*111697	38	6775	*56096	35	6873	*60501	35	7147	*11406	8
6196	*50409	34	6378	*64772	36	6775/B	*111651	38	6873/B	*111707	38	7148	*11407	8
6197	*50410	34	6378/B	*111696	38	6776	*56092	35	6913	84859	36	7149	*11408	8
6198	*50412	34	6379	*56101	35	6776/B	*111649	38	6917	*71788	36	7150	*11409	8
6199	*50413	34	6379/B	*111698	38	6777	*56100	35	6917/B	*111730	38	7151	*11410	8
6200	*50414	34	6380	*56105	35	6777/B	*111652	38	6925	50386	34	7152	*11425	8
6201	*50421	34	6380/B	*111699	38	6778	*71757	36	6929	*71758	36	7153	*11426	8
6207	50377	34	6381	*56109	35	6778/B	*111655	38	6929/B	*111694	38	7154	*11427	8
6262	50363	34	6381/B	*111700	38	6779	*56108	35	6930	*71792	36	7155	*11428	8
6263	50364	34	6382	*64770	36	6779/B	*111654	38	6930/B	*111734	38	7156	*11429	8
6265	50370	34	6383	*64771	36	6780/B	*111658	38	6933	*59853	35	7157	*11430	8
6274	50329	34	6383/B	*111702	38	6781	*71751	36	6934	64872	36	7158	*11431	8
6284	50383	34	6384	*56113	35	6781/B	*111659	38	7021	84864	9	7159	*11432	8
6285	*62086	36	6384/B	*111704	38	6782	*71753	36	7022	84865	9	7160	*11433	8
6289	55325	35	6385	*64517	36	6782/B	*111665	38	7023	108930	9	7161	*11434	9
6290	*50407	34	6385/B	*111705	38	6783	*71754	36	7024	108933	9	7162	*11435	9
6291	*50434	34	6386	*64773	36	6783/B	*111666	38	7025	84866	9	7163	*11436	9
6297	50373	34	6386/B	*111711	38	6788	64959	36	7026	108932	9	7164	*11437	9
6298	*50417	34	6387	*56087	35	6798	*71760	36	7027	84867	9	7165	*11438	9
6299	*56067	35	6388	*56091	35	6799	*56088	35	7029	84869	9	7166	*11439	9
6300	56068	35	6388/B	*111716	38	6799/B	*111647	38	7030	84870	8	7167	*11440	9
6302	50372	34	6389	*56095	35	6800	*71778	36	7031	108914	8	7168	*11441	9
6304	50381	34	6389/B	*111718	38	6800/B	*111688	38	7032	85945	8	7169	*11442	9
6305	50382	34	6390	*56099	35	6801	*56094	35	7033	84871	8	7170	*11443	9
6306	*50426	34	6390/B	*111720	38	6801/B	*111672	38	7034	108913	8	7171	*11444	9
6307	*50427	34	6391	*56103	35	6802	*71781	36	7035	108915	8	7172	*11445	9
6308	*56071	35	6391/B	*111721	38	6802/B	*111689	38	7036	108916	8	7173	*11446	9
6309	*56065	35	6392	*56107	35	6811	*71768	36	7037	108923	8	7174	*11447	9
6310	57216	35	6392/B	*111722	38	6811/B	*111673	38	7038	*84872	11	7175	*11448	9
6313	56077	35	6393	*56111	35	6813	*71765	36	7039	*84873	11	7176	*11449	9
6318	60492	35	6393/B	*111723	38	6813/B	*111662	38	7040	*108947	11	7177	*11450	9
6319	*60522	35	6394	*56115	35	6821	*56086	35	7041	*108950	11	7178	*11451	9
6321	*56078	35	6394/B	*111727	38	6821/B	*111669	38	7042	*108945	11	7179	*11452	9
6326	50354	34	6420	50391	34	6822	*71749	36	7043	*108948	11	7180	*11453	9
6327	50374	34	6421	*50416	34	6822/B	*111650	38	7044	*108944	11	7181	*11454	9
6328	50375	34	6422	57212	35	6823	*56090	35	7045	*84875	11	7182	*11455	9
6329	50358	34	6470	70185	36	6823/B	*111670	38	7046	*108949	11	7183	*11456	9
6330	56073	35	6471	*70186	36	6824	*56098	35	7047	*84876	11	7184	*11457	9
6331	60491	35	6479	58511	35	6824/B	*111674	38	7048	*84877	11	7185	*11458	9
6332	60493	35	6575	*67679	36	6825	*56110	35	7049	*84878	11	7186	*11459	9
6333	60494	35	6576	61468	35	6825/B	*111677	38	7050	108907	8	7187	*11460	9
6334	60496	35	6577	61467	35	6826	*71759	36	7051	*84879	11	7188	*11461	9
6335	60495	35	6598	56000	35	6826/B	*111657	38	7052	*84880	11	7189	*11462	9
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*to part numbers  
of standard plugs  
and sockets*

The following pages contain an index of Plessey part numbers cross-referenced with Air Ministry reference numbers and the page on which full details may be found.

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.

**“OBSOLESCENT”**—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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CZ 12381	63	"	—	Z 22676/B	2119	2Z 139934/B
CZ 12384	26	Obsolete/Alternative 2CZ 111406	8	Z 22676/C	2120	2Z 139934/C
CZ 12384/2	4026	Replaced by 2CZ 111406	8	Z 22676/D	2121	2Z 139934/D
CZ 12386	1585	Discontinued	—	Z 22676/E	2122	2Z 139934/E
CZ 12389	65	"	—	CZ 22794	2128	2CZ 111433
CZ 12390	79	"	—	CZ 22796	2129	2CZ 111435
CZ 12390/2	4079	"	—	CZ 22982	2181	2CZ 111433
CZ 12391	1285	"	—	CZ 22983	2182	2CZ 111435
Z 12550/2	2197	Replaced by 2Z 139983	26	CZ 23144/Z	6440	—
Z 13031	1097	"	—	CZ 23144/B	6488	—
Z 13032	1089	"	—	CZ 23144/C	6489	—
Z 13033	1575	"	—	CZ 23144/D	3143	—
Z 13106	1088	"	—	CZ 23144/E	6490	—
Z 13299	287	"	—	CZ 23144/F	—	—
Z 14040	1512	Replaced by 2Z 111191	15	Z 23195	6167	Replaced by 2Z 84912/A
Z 14485/2	7320	" 2Z 139956	26	Z 23196	6206	" 2Z 84912/B
Z 15003/2	1588	" 2Z 139985	26	Z 23197	6168	" 2Z 84912/C
CZ 15155/-3	1555	Discontinued	—	Z 23198	6169	" 2Z 84912/D
CZ 16568	1554	"	—	Z 23201/A	3094	—
CZ 16568/2	5554	"	—	Z 23201/Z	3095	—
Z 17830	—	"	—	Z 23201/B	3096	—
Z 17831	—	"	—	Z 23201/C	3097	—
Z 17832	—	"	—	Z 23201/D	3098	—
Z 17833	—	"	—	Z 23201/E	3099	—
Z 17834	—	"	—	Z 23276	2185	—
Z 17835	—	"	—	Z 23414	6402	Replaced by 2Z 84912/Z
Z 17836	—	"	—	CZ 24626	6850	—
Z 17837	—	"	—	CZ 24628	6631	—
Z 17838	—	"	—	CZ 24632	6603	—
Z 17839	—	"	—	CZ 24634	6797	—
Z 17840	—	"	—	CZ 24636	—	—
Z 17841	—	"	—	CZ 24638	6604	—
CZ 17883	198	Discontinued	—	CZ 24640	6605	—
CZ 17884	199	"	—	CZ 24642	—	—
CZ 17924	1589	"	—	CZ 24644	6177	—
Z 18500/A	1522	"	—	CZ 24646	6178	—
Z 18500/Z	1523	"	—	CZ 24648	6628	—
Z 18500/B	1524	"	—	CZ 24650	6180	—
Z 18500/C	1525	"	—	CZ 24652	—	—
Z 18500/D	1526	"	—	CZ 24654	—	—
Z 18500/E	1527	"	—	CZ 24656	6606	—
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Z 18501/Z	1530	"	—	Z 24915	—	—
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Z 18501/C	1532	"	—	Z 24924	6492	—
Z 18501/D	1533	"	—	Z 24925	6914	—
Z 18501/E	1534	"	—	Z 24932	—	—
Z 18501/F	1535	"	—	Z 24933	6493	—
Z 18764/A	1546	"	—	Z 24995	—	Replaced by 2Z 109914
Z 18764/Z	1547	"	—	Z 25003	6396	" 2Z 111189
Z 18764/B	1548	"	—	Z 25004	—	" 2Z 109908
Z 18764/C	1549	"	—	Z 25005	—	" 2Z 109909
Z 18764/D	1550	"	—	Z 25012	—	" 2Z 109906
Z 18764/E	2187	"	—	Z 25013	—	" 2Z 109907
CZ 18960	1567	Discontinued	—	CZ 26519	—	Discontinued
CZ 18961	1568	"	—	CZ 26521	—	—
CZ 19145	3158	Obsolete/No direct alternative	—	CZ 27004	2928	Replaced by 2CZ 138244
CZ 19146	3160	"	—	Z 27323	3238	—
CZ 19147	3157	"	—	Z 27441	3151	Replaced by 2Z 139928
CZ 19148	3159	"	—	Z 27442	3152	" 2Z 139929
CZ 19250	1706	Discontinued	—	Z 27443	3090	" 2Z 139930
CZ 19251	1707	"	—	Z 27444	3154	" 2Z 139931
CZ 19252	1708	"	—	Z 27445	3155	" 2Z 139932
CZ 19253	1709	"	—	Z 27446	3156	" 2Z 139933
Z 19269	2049	"	—	CZ 27501	—	Replaced by 2CZ 84872
Z 19270	2050	"	—	CZ 27502	—	Discontinued
Z 19271	2051	"	—	CZ 27511	—	Replaced by 2CZ 84875
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Z 22164	1963	"	—	CZ 27561	—	Replaced by 2CZ 108906
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Z 22166	1965	"	—	CZ 27563	—	Replaced by 2CZ 84870
Z 22167	1966	"	—	CZ 27564	—	" 2CZ 108907
Z 22168	1967	"	—	CZ 27565	—	" 2CZ 85945
CZ 22238	2183	Replaced by 2CZ 140052	13	CZ 27567	—	" 2CZ 108908
CZ 22344	2043	Discontinued	—	CZ 27568	—	" 2CZ 108909
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CZ 22579A/3	2883	" 2CZ 139901	12	CZ 27577	—	" 2CZ 108910
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CZ 27994	6075	Replaced by 2CZ 111459	11	CZ 28188	6042	" 2CZ 108929	—	9
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CZ 56000	6598	Replaced by 2CZ 139899	12	CZ 60483	6339
CZ 56065	6309	" 2CZ 111446	11	CZ 60484	—
CZ 56066	—	" 2CZ 111411	8	CZ 60485	—
CZ 56067	6299	" 2CZ 108957	11	CZ 60486	—
CZ 56068	6300	" 2CZ 108924	8	CZ 60487	—
CZ 56069	6346	" 2CZ 111434	9	CZ 60488	—
CZ 56070	6349	" 2CZ 108940	9	CZ 60489	—
CZ 56071	6308	" 2CZ 111469	11	CZ 60490	—
CZ 56072	6372	" 2CZ 108973	11	CZ 60491	6331
CZ 56073	6330	" 2CZ 111225	8	CZ 60492	6318
CZ 56074	6353	" 2CZ 111440	11	CZ 60493	6332
CZ 56075	6345	" 2CZ 111423	9	CZ 60494	6333
CZ 56076	6364	" 2CZ 111458	11	CZ 60495	6335
CZ 56077	6313	" 2CZ 108913	8	CZ 60496	6334
CZ 56078	6321	" 2CZ 108949	11	CZ 60497	6336
CZ 56079	6348	" 2CZ 108932	9	CZ 60498	6359
CZ 56080	6370	" 2CZ 108965	11	CZ 60499	6371
CZ 56084	6772	" 2CZ 111230	—	CZ 60500	—
CZ 56085	6374	" 2CZ 84872	—	CZ 60501	6873
CZ 56086	6821	" 2CZ 111448	—	CZ 60502	—
CZ 56087	6387	" 2CZ 84879	—	CZ 60503	—
CZ 56088	6799	" 2CZ 111231	—	CZ 60504	—
CZ 56089	6375	" 2CZ 84873	—	CZ 60505	—
CZ 56090	6823	" 2CZ 111449	—	CZ 60506	—
CZ 56091	6388	" 2CZ 84880	—	CZ 60507	—
CZ 56092	6776	" 2CZ 111233	—	CZ 60508	6360
CZ 56093	6376	" 2CZ 84874	—	CZ 60509	6373
CZ 56094	6801	" 2CZ 111451	—	CZ 60510	—
CZ 56095	6389	" 2CZ 108959	—	CZ 60511	—
CZ 56096	6775	" 2CZ 111437	—	CZ 60512	—
CZ 56097	6377	" 2CZ 108945	—	CZ 60513	—
CZ 56098	6824	" 2CZ 111453	—	CZ 60514	—
CZ 56099	6390	" 2CZ 108961	—	CZ 60515	—
CZ 56100	6777	" 2CZ 111234	—	CZ 60516	—
CZ 56101	6379	" 2CZ 84875	—	CZ 60517	—
CZ 56102	6837	" 2CZ 111454	—	CZ 60518	—
CZ 56103	6391	" 2CZ 84881	—	CZ 60519	—
CZ 56104	6774	" 2CZ 111438	—	CZ 60520	—
CZ 56105	6380	" 2CZ 108946	—	CZ 60521	—
CZ 56106	6831	" 2CZ 111455	—	CZ 60522	6319
CZ 56107	6392	" 2CZ 108962	—	CZ 60523	—
CZ 56108	6779	" 2CZ 111298	—	CZ 60524	6365
CZ 56109	6381	" 2CZ 108947	—	CZ 60525	6354
CZ 56110	6825	" 2CZ 111456	—	CZ 60526	6357
CZ 56111	6393	" 2CZ 108963	—	CZ 60527	6355
CZ 56112	6780	" 2CZ 111235	—	CZ 60528	6366
CZ 56113	6384	" 2CZ 84876	—	CZ 60529	6356
CZ 56114	6841	" 2CZ 111460	—	CZ 60530	6367
CZ 56115	6394	" 2CZ 84882	—	CZ 60531	6368
Z 56404	—	" 2CZ 109944	15	CZ 60532	6358
Z 56405	—	" 2CZ 109945	15	CZ 60533	6369
Z 56408	6400	" 2CZ 111902	15	CZ 61467	6577
Z 56480	—	" 2CZ 109946	15	CZ 61468	6576
CZ 57115	6633	Discontinued	—	Z 61535	6312
CZ 57205	—	Replaced by 2CZ 108949	11	Z 61536	6500
CZ 57206	—	" 2CZ 108965	11	Z 61537	6405
CZ 57207	—	" 2CZ 108957	11	Z 61538	6424
CZ 57208	—	" 2CZ 108973	11	Z 61539	6425
CZ 57209	—	" 2CZ 108913	8	Z 61540	6820
CZ 57210	—	" 2CZ 108913	8	Z 61541	6301
CZ 57211	—	" 2CZ 108932	9	Z 61542	6293
CZ 57212	6422	" 2CZ 138247	10	Z 61543	6294
CZ 57213	—	" 2CZ 108924	8	Z 61544	6295
CZ 57214	—	" 2CZ 108924	8	Z 61545	6296
CZ 57215	—	" 2CZ 108940	9	Z 61546	6325
CZ 57216	6310	" 2CZ 138108	10	CZ 61565	6594
CZ 57545	—	Discontinued	—	CZ 61566	6770
CZ 57546	—	" ...	—	CZ 61568	6624
CZ 57709	—	Replaced by 2CZ 139881	12	CZ 61569	6478
CZ 57711	—	" 2CZ 139883	12	CZ 61570	6455
CZ 58511	6479	" 2CZ 139890	12	CZ 61571	6456
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CZ 70870	—	" 2CZ 138237	—	2CZ 84261	—	Replaced by 2CZ 139873	—	—	—	12
CZ 70871	—	" 2CZ 138232	—	2CZ 84262	—	Obsolescent/No direct alternative	—	—	—	—
CZ 70872	—	" 2CZ 138233	—	2CZ 84263	—	Replaced by 2CZ 138221	—	—	—	—
CZ 71733	6634	"	—	2CZ 84264	—	"	—	—	—	—
CZ 71748	6773	Obsolescent/No direct alternative	—	2CZ 84267	—	"	—	—	—	—
CZ 71749	6822	Replaced by 2CZ 111436	—	2CZ 84268	—	"	—	—	—	—
CZ 71750	6829	" 2CZ 111439	—	2CZ 84337	—	"	—	—	—	—
CZ 71751	6781	" 2CZ 111236	—	2CZ 84338	—	"	—	—	—	—
CZ 71752	6832	" 2CZ 111296	—	2CZ 84721	—	"	—	—	—	—
CZ 71753	6782	" 2CZ 111445	—	2CZ 84742	—	Obsolescent/No direct alternative	—	—	—	—
CZ 71754	6783	" 2CZ 111238	—	2CZ 84743	—	"	—	—	—	—
CZ 71755	6834	" 2CZ 111446	—	2CZ 84859	6913	"	—	—	—	—
CZ 71756	6617	" 2CZ 108942	—	2CZ 84860	—	Replaced by 2CZ 138229	—	—	—	—
CZ 71757	6778	" 2CZ 111440	—	2CZ 84864	7021	"	—	—	—	9
CZ 71758	6929	" 2CZ 108943	—	2CZ 84865	7022	"	—	—	—	9
CZ 71759	6826	" 2CZ 111441	—	2CZ 84866	7025	"	—	—	—	9
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CZ 71761	6842	" 2CZ 111443	—	2CZ 84868	7028	"	—	—	—	9
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CZ 71764	6611	" 2CZ 108957	—	2CZ 84871	7033	"	—	—	—	8
CZ 71765	6813	" 2CZ 111442	—	2CZ 84872	7038	"	—	—	—	—
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CZ 71768	6811	" 2CZ 111452	—	2CZ 84874	7128	"	—	—	—	—
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CZ 71772	6844	" 2CZ 111461	—	2CZ 84878	7049	"	—	—	—	—
CZ 71773	6833	" 2CZ 111462	—	2CZ 84879	7051	"	—	—	—	—
CZ 71774	6828	" 2CZ 111463	—	2CZ 84880	7052	"	—	—	—	—
CZ 71775	6836	" 2CZ 111464	—	2CZ 84881	7055	"	—	—	—	—
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CZ 71777	6840	" 2CZ 111466	—	2CZ 84883	7058	"	—	—	—	—
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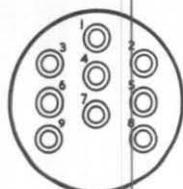
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2CZ 111406	7150	...	8	2CZ 111672	6801/B	" 2CZ 111451	11
2CZ 111407	7155	...	8	2CZ 111673	6811/B	" 2CZ 111452	11
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2CZ 111470	7450	...	11	2CZ 111736	6612/B	" 2CZ 108973	11
2CZ 111646	6772/B	Replaced by 2CZ 111230	11	2CZ 111737	6618/B	" 2CZ 108974	11
2CZ 111647	6799/B	" 2CZ 111231	11	2CZ 111902	—	" 2CZ 108975	10
2CZ 111648	6773/B	" 2CZ 111232	11	2CZ 138096	—	" 2CZ 108976	10
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2CZ 111653	6774/B	" 2CZ 111438	11	2CZ 138101	—	" 2CZ 108981	10
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2CZ 111657	6826/B	" 2CZ 111441	11	2CZ 138105	—	" 2CZ 108985	10
2CZ 111658	6780/B	" 2CZ 111235	11	2CZ 138106	—	" 2CZ 108986	10
2CZ 111659	6781/B	" 2CZ 111236	11	2CZ 138107	—	" 2CZ 108987	10
2CZ 111660	6832/B	" 2CZ 111296	11	2CZ 138108	—	" 2CZ 108988	10
2CZ 111661	6798/B	" 2CZ 111237	11	2CZ 138109	—	" 2CZ 108989	10
2CZ 111662	6813/B	" 2CZ 111442	11	2CZ 138110	—	" 2CZ 108990	10
2CZ 111663	6842/B	" 2CZ 111443	11	2CZ 138111	—	" 2CZ 108991	10

Only assemblies in heavy type are of current manufacture

**INDEX TO PART NUMBERS OF STANDARD PLUGS AND SOCKETS**

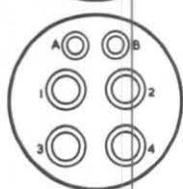
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<b>2CZ I38210</b>	—	12	<b>2CZ I39913</b>	—	12
<b>2CZ I38211</b>	—	—	<b>2Z I39928</b>	—	23
<b>2CZ I38212</b>	—	12	<b>2Z I39929</b>	—	23
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<b>2CZ I38216</b>	—	12	<b>2Z I39933</b>	—	23
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Only assemblies in heavy type are of current manufacture

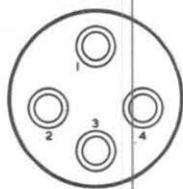


7

Nine 7A

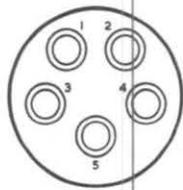


8

Two 7A  
Four 19A

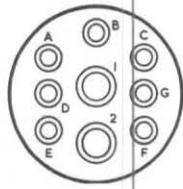
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Four 19A

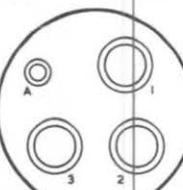


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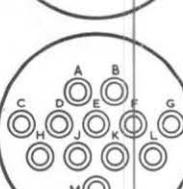
Five 19A



11

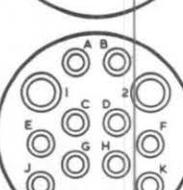
Seven 7A  
Two 19A

12

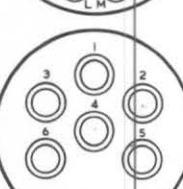
One 7A  
Three 37A

13

Twelve 7A

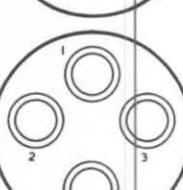


14

Twelve 7A  
Two 19A

15

Six 19A



16

Four 37A

7

Nine 7A

8

Two 7A  
Four 19A

9

Four 19A

10

Five 19A

11

Seven 7A  
Two 19A

12

One 7A  
Three 37A

13

Twelve 7A

14

Twelve 7A  
Two 19A

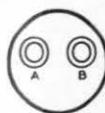
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Six 19A

16

Four 37A

A



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

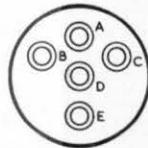
DIAGRAMS ARE ACTUAL SIZE

VIEWED FROM MATING END OF NORMAL SOCKET

## STANDARD PLUGS AND SOCKETS

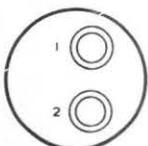
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Five 7A

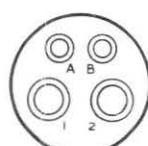


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Two 19A



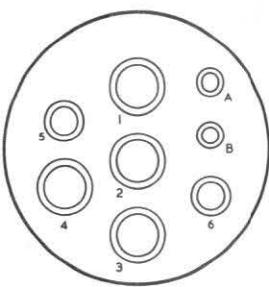
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Two 7A  
Two 19A

Z

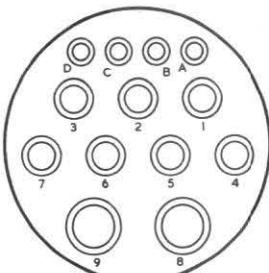
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Two 7A  
Two 19A  
Four 37A



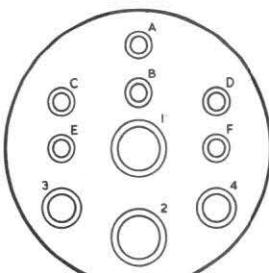
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Four 7A  
Seven 19A  
Two 37A



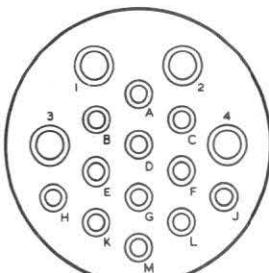
19

Six 7A  
Two 19A  
Two 37A



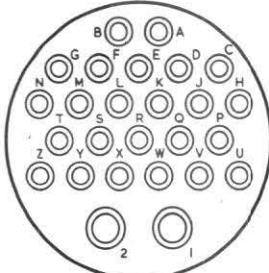
20

Twelve 7A  
Four 19A



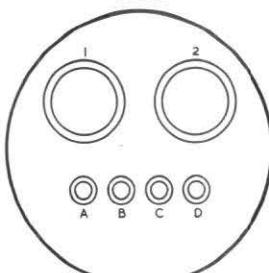
21

Twenty-four 7A  
Two 19A



22

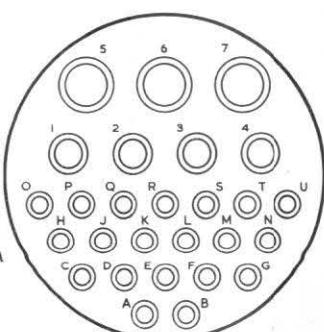
Four 7A  
Two 64A



E

23

Twenty 7A  
Four 19A  
Three 37A



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 Re-  
peater 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

### **Swindon Group**

Cast Permanent Magnets  
Cold Molded 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.

8194-4-5588

Plessey

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