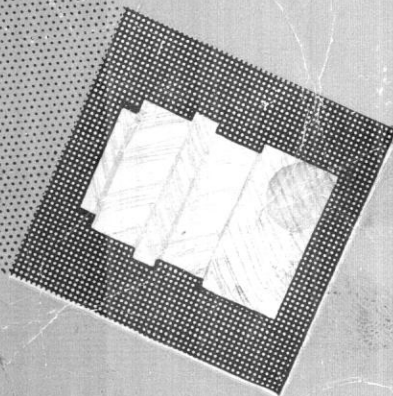
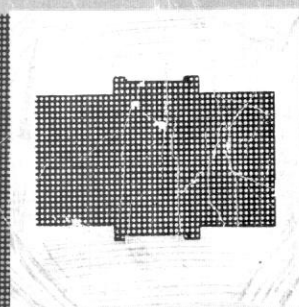


Standard Plugs & Sockets



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°C . and $+150^{\circ}\text{C}$.

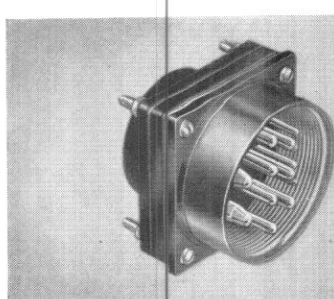
Careful attention has been paid to improvements made in order that this new uprated range remains interchangeable wherever possible with earlier types. This has proved to be highly successful and production of all items other than those illustrated within this publication will cease upon the introduction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

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

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

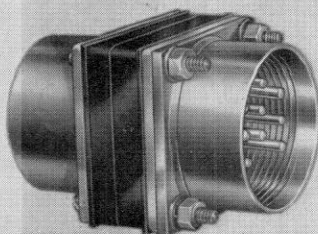
Plessey

RANGE OF STANDARD PLUGS & SOCKETS



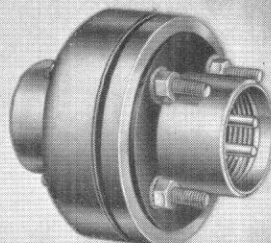
Single plug (climatic proof)

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



Bulkhead plug (climatic proof)

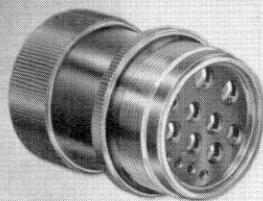
Double-ended for "breaks" on both sides of bulkheads. Shells available in lightweight aluminium or steel.



Bulkhead plug (pressurised)

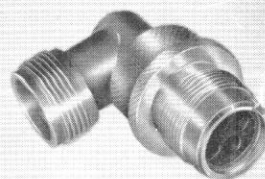
Double-ended for "breaks" on both sides of pressurised bulkheads. Suitable where a minimum leakage of 1 c.c. per hour is permissible at a pressure difference of 1 atmosphere. Available in aluminium only.

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



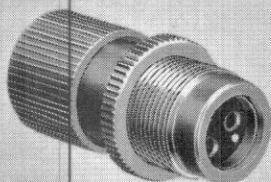
Normal and reverse socket (vibration and climatic proof)

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



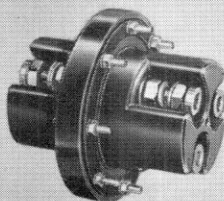
Right-angle short-reach socket

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



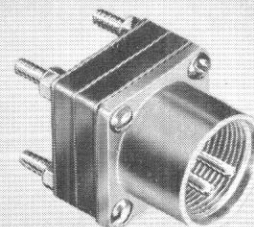
Thermo-couple plug and socket

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

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

Plessey

STANDARD PLUGS & SOCKETS

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

PLUGS

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

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

SOCKETS

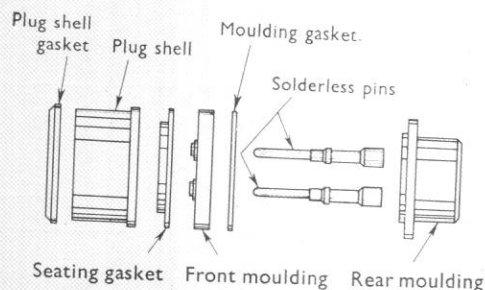
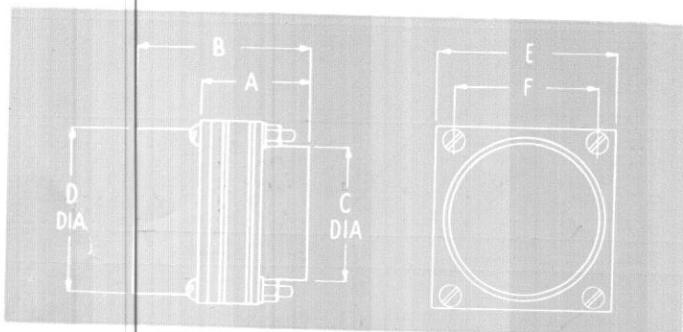
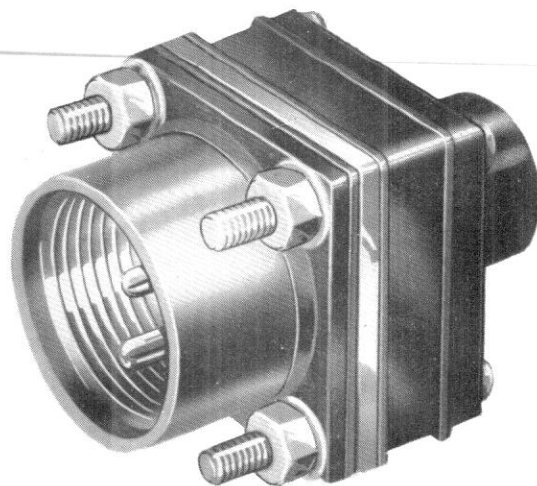
Body Size	Code *	Contact Combination				NORMAL		REVERSE (BULKHEAD)	
		7A	19A	37A	64A	Aluminium	Steel	Aluminium	Steel
						Vib. proof and Climatic	Vib. proof and Climatic	Vib. proof and Climatic	Vib. proof and Climatic
A	1	2	—	—	—	2CZ	2CZ	2CZ	2CZ
	2	4	—	—	—	111230	84872	111448	84879
	3	—	1	—	—	111231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

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

Plessey

SINGLE PLUG (Climatic Proof)

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



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

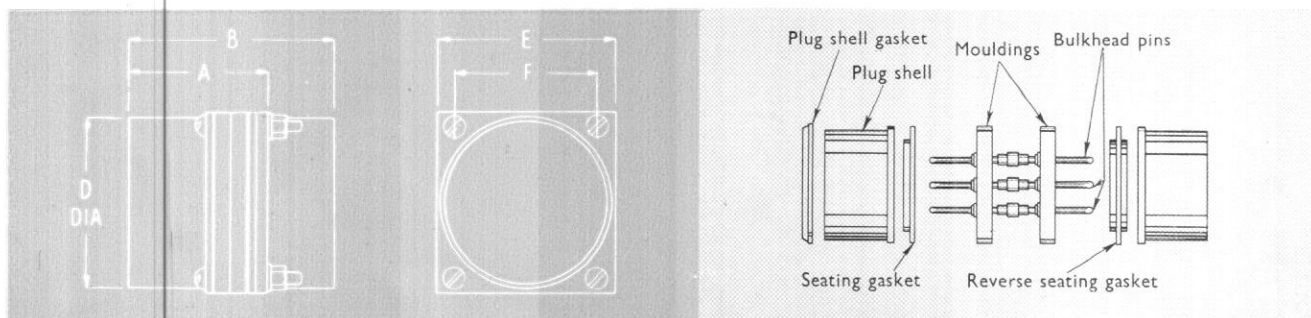
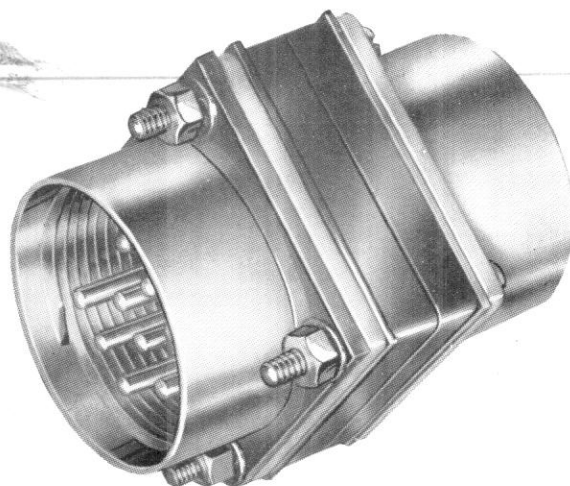
Body Size	CONTACTS				ALUMINIUM			STEEL			A	B	C dia.	D dia.	E sq.	F crs. sq.	Fixing holes
	7 A.	19 A.	37 A.	64 A.	Part No.	A/M Ref.	Weight oz.	Part No.	A/M Ref.	Weight oz.							
A	2	—	—	—	2CZ	5X/	—	2CZ	5X/	—	—	—	—	—	—	—	—
	4	—	—	—	111223	7139	.8	108906	7108	1.1	.941	1.384	.497	.781	.937	.720	6BA
	—	—	—	—	111399	7140	.8	84870	7030	1.2	—	—	—	—	—	—	—
	—	—	—	—	111400	7141	.8	108907	7050	1.1	—	—	—	—	—	—	—
Z	5	—	—	—	111401	7142	1.1	85945	7032	1.4	.941	1.509	.679	.934	1.125	.875	6BA
	—	2	—	—	111402	7143	1.1	108908	7109	1.4	—	—	—	—	—	—	—
	2	2	—	—	111403	7144	1.2	108909	7110	1.5	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
B	9	—	—	—	111224	7145	1.5	84871	7033	1.9	.941	1.509	.897	1.153	1.250	1.000	6BA
	2	4	—	—	111404	7146	1.6	108910	7111	2.0	—	—	—	—	—	—	—
	—	4	—	—	111299	7147	1.5	108911	7112	2.0	—	—	—	—	—	—	—
	—	5	—	—	111405	7148	1.6	108912	7113	2.1	—	—	—	—	—	—	—
	7	2	—	—	111225	7149	1.6	108913	7034	2.0	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
C	1	—	3	—	111406	7150	2.0	108914	7031	2.5	.941	1.509	1.047	1.341	1.437	1.187	6BA
	12	—	—	—	111226	7151	1.9	108915	7035	2.4	—	—	—	—	—	—	—
	12	2	—	—	111227	7152	2.0	108916	7036	2.5	—	—	—	—	—	—	—
	—	6	—	—	111297	7153	2.0	108917	7114	2.5	—	—	—	—	—	—	—
	—	—	4	—	111228	7154	2.2	108918	7115	2.7	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
D	2	2	4	—	111407	7155	3.0	108919	—	3.7	.941	1.509	1.416	1.715	1.750	1.469	6BA
	4	7	2	—	111408	7156	3.1	108920	—	3.9	—	—	—	—	—	—	—
	6	2	2	—	111409	7157	2.9	108921	—	3.6	—	—	—	—	—	—	—
	12	4	—	—	111410	7158	2.8	108922	7116	3.6	—	—	—	—	—	—	—
	24	2	—	—	111229	7159	2.9	108923	7037	3.6	—	—	—	—	—	—	—
	4	—	2	—	111411	7445	2.4	108924	7117	3.2	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
E	20	4	3	—	111412	7160	4.2	108905	7118	5.1	.941	1.509	1.672	1.965	2.000	1.687	4BA

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

Plessey

BULKHEAD PLUG (Climatic Proof)

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



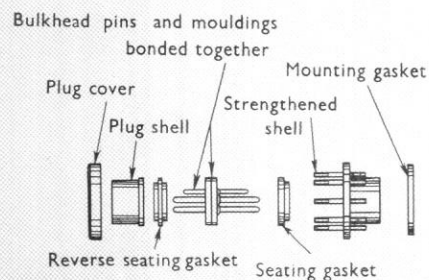
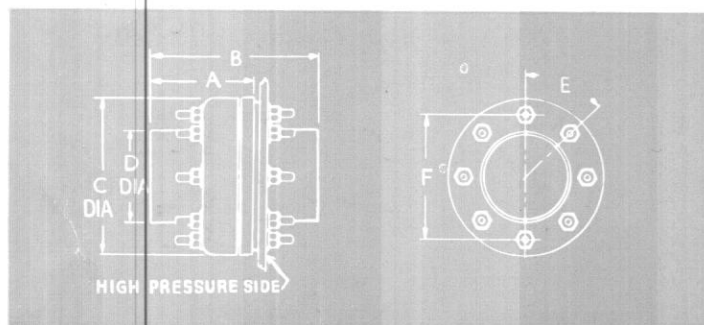
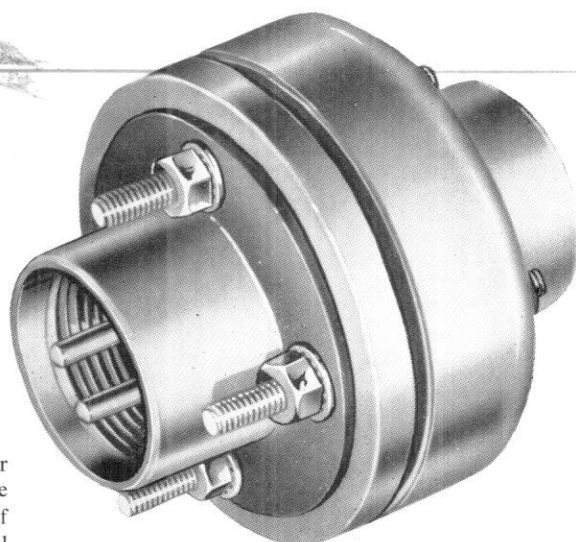
Body Size	CONTACTS				ALUMINIUM			STEEL			A	B	D dia.	E sq.	F crs. sq.	Fixing holes
	7 A	19 A	37 A	64 A	Part No.	A/M Ref.	Weight oz.	Part No.	A/M Ref.	Weight oz.						
A	2	—	—	—	2CZ	5X/	—	2CZ	5X/	—	1-182	1-625	-781	-937	-720	6BA
	4	—	—	—	111413	7161	1-0	84864	7021	1-6						
	—	—	—	—	111414	7162	1-0	84865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

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

Plessey

BULKHEAD PLUG (Pressurised)

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



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

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

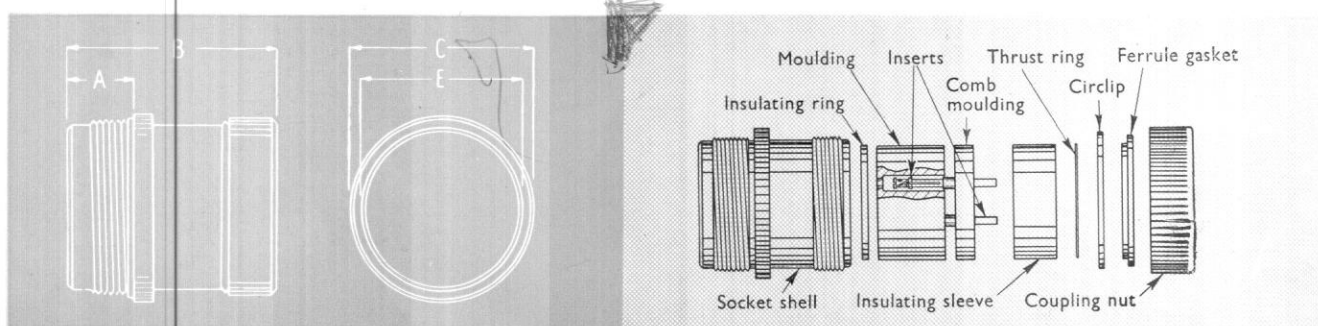
Plessey



SOCKET (Climatic and Vibration Proof)

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

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



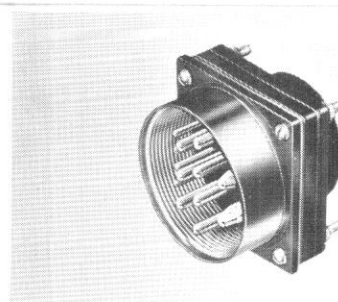
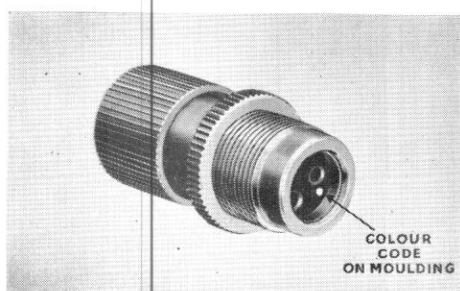
Body Size	CONTACTS				ALUMINIUM (Climatic and vibration proof)					STEEL (Climatic and vibration proof)					A	B	C dia.	E dia. Thread
	7 A	19 A	37 A	64 A	Part No.		A/M Reference		Wt. oz.	Part No.		A/M Reference		Wt. oz.				
					Normal	Reverse	Normal	Reverse		Normal	Reverse	Normal	Reverse					
A	2 4	—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

Plessey

THERMO-COUPLE PLUG & SOCKET

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



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

Details of the identification codes are as follows:—

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

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

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

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

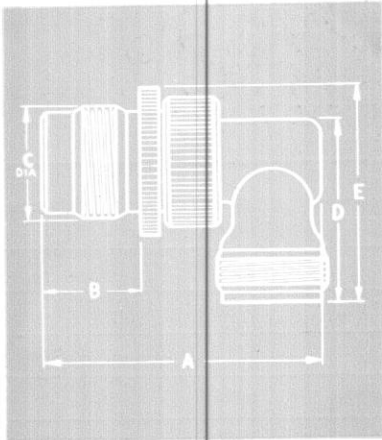
Plessey

SPECIAL PURPOSE PLUGS & SOCKETS

These items are supplied to special order only.

RIGHT-ANGLE SHORT-REACH SOCKET ASSEMBLY

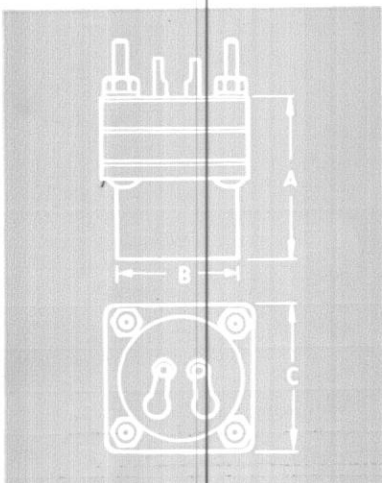
Specially designed for easy withdrawal in cramped conditions. It overcomes the difficulties of using straight-outlet sockets where space is limited. The socket shell is aluminium or steel and the elbow assembly is fabricated in brass and finished in dull nickel plate. Special soldered-type socket inserts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



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

PLUG (DETACHABLE LEADS)

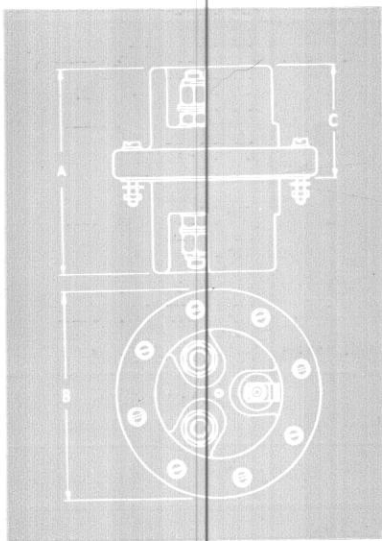
For use on electric motors and other equipment where only short leads are required behind the plug. The pins are removable from the mouldings for easy wiring before fitting the plug, and they can be withdrawn from the moulding with the leads still attached. Supplied in one size only, with shell in aluminium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



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

HEAVY DUTY PRESSURISED BULKHEAD CONNECTOR BLOCK

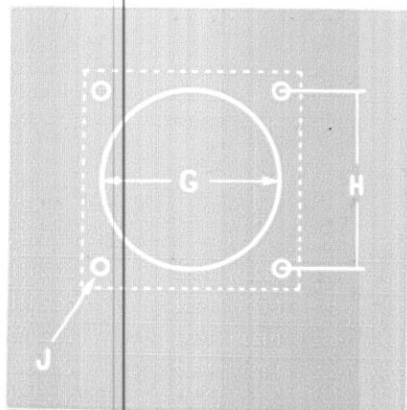
This connector block is fully pressurised at 15 lb. for use at pressure cabin bulkheads wherever heavy duty leads must be broken. For use with crimped or soldered lugs, and available with end covers, if required.



Connections	Part No.	A/M Ref.	A	B Dia.	C	Weight oz.	Cover	
							Part No.	A/M Ref.
Three 200A	CZ 51091	5H/1112	3.62	3.62	1.937	19.6	Z 51094	5H/111
Two 200A One 19A	CZ 51097	5H/1110	3.62	3.62	1.937	18.2	Z 51094	5H/111

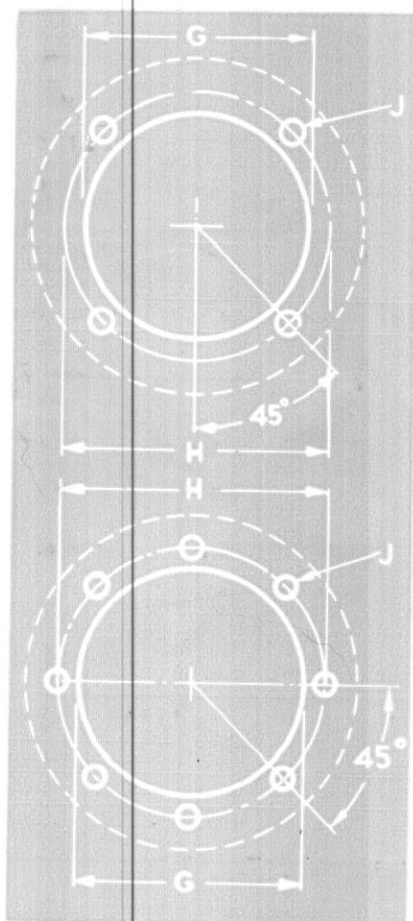
Add .125" to each end of dimension "A" if covers are used. Panel piercing details are given on page 14. All dimensions are in inches.

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

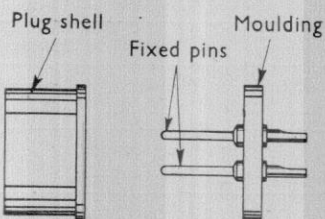
Description	For Assemblies listed on page	Material	Part Numbers					
			A	Z	B	C	D	E
Plug Shell	8, 9 & 12	Aluminium	Z 49249	Z 49251 *Z 49252	Z 24923 *Z 24932	Z 24924 *Z 24933	Z 24925	Z 49278
		Steel	2Z 109905	2Z 111186 *2Z 109933	2Z 111189 *2Z 109906	2Z 109908 *2Z 109907	2Z 109909	2Z 111184
Plug Shell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

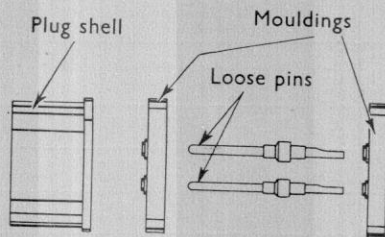
†The Socket Sealing Gasket will be supplied with all sockets for use should the socket be required to mate with earlier versions of the Standard plugs. When mating assemblies are both of the uprated version, the gasket should be discarded.

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.

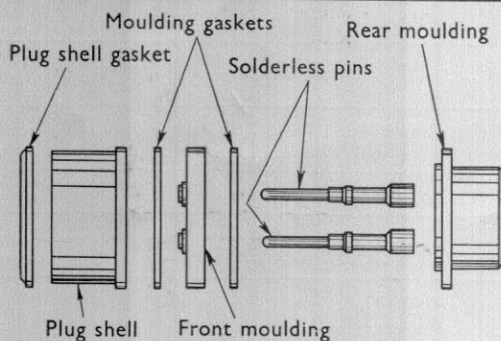


STAGE 2 (Loose Pin)

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.

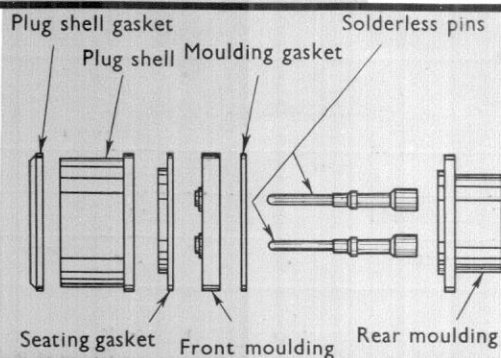
STAGE 3 (Climatic Proof)

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)

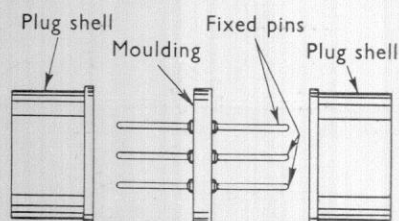
Current production version. The introduction of the uprated range to operate between ambient temperatures of -65°C . and $+150^{\circ}\text{C}$. Design of the plug shell and plug pins remains unchanged, but front and rear mouldings now manufactured from alkyd. Plug shell gasket and moulding gasket manufactured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



EVOLUTION OF THE BULKHEAD PLUG

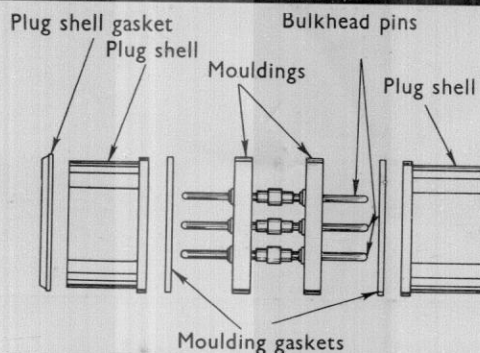
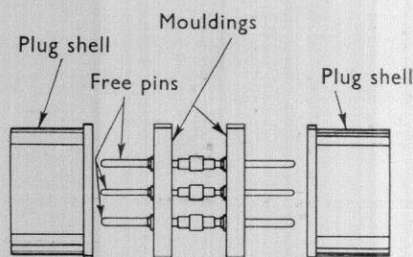
STAGE 1 (Fixed Pin)

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



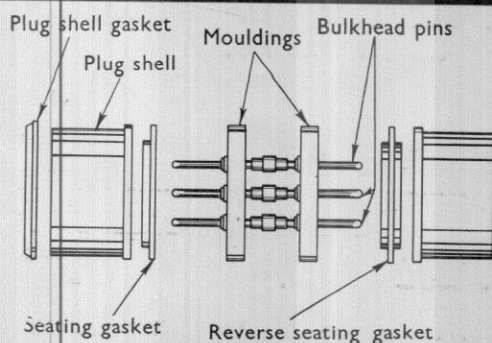
STAGE 2 (Loose Pin)

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



STAGE 3 (Climatic Proof)

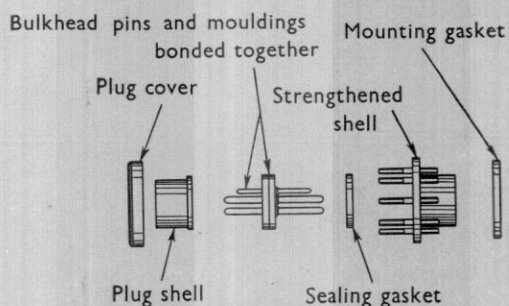
The introduction of rubber moulding gaskets and plug shell gasket, designed to make the connector proof against all climatic conditions other than those of full exposure.



STAGE 4 (Up-rated Type)

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

EVOLUTION OF THE PRESSURISED BULKHEAD PLUG



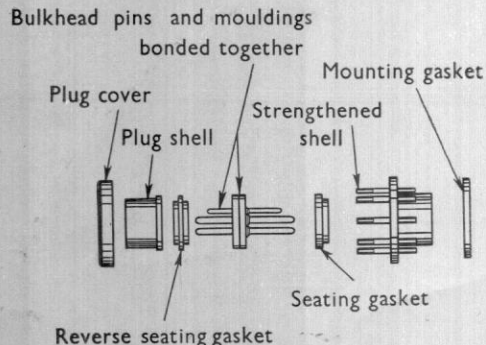
STAGE 1 (Pressurised Type)

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

STAGE 2 (Up-rated Type)

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

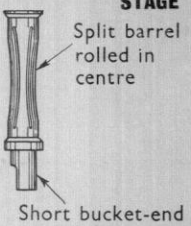
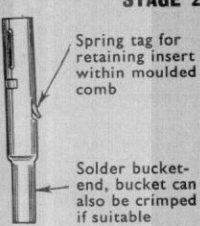
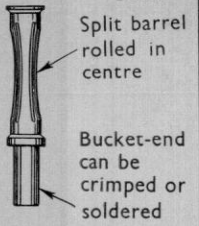
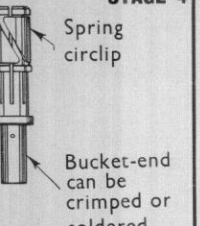
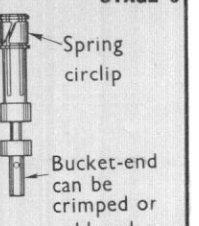
Two types of modified seating gaskets in silicone rubber introduced to accept the leading edges of the mating sockets.



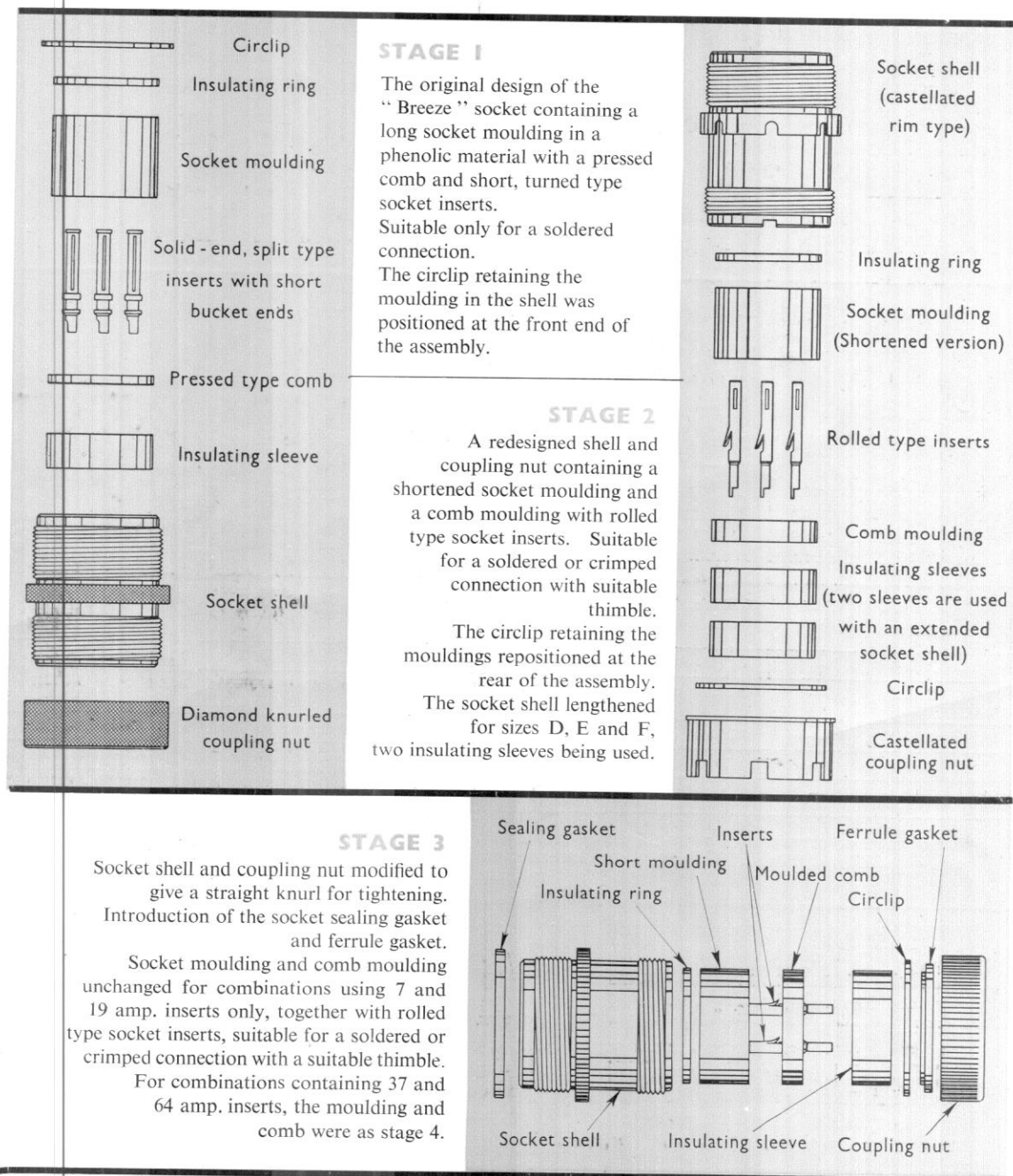
CONTACT DESIGN

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

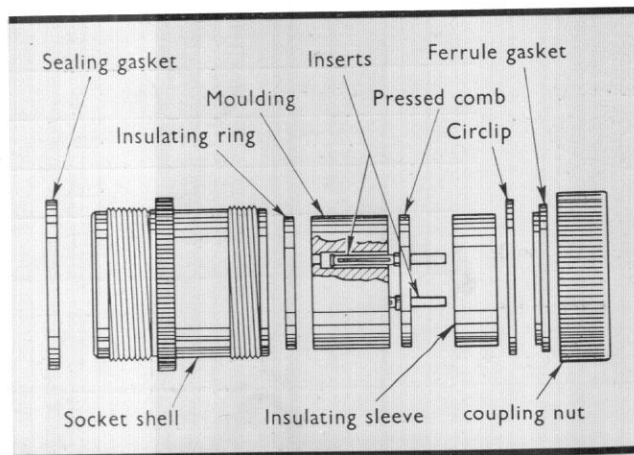
In order to retain the feature of interchangeability of sockets, the dimensions of the mating portions of the contacts have been maintained or improved to permit correct connection with any plug pin of equivalent rating.

Typical Illustrations of Socket Inserts	STAGE 1		STAGE 2		STAGE 3		STAGE 4		STAGE 5	
		ORIGINAL TYPE For use with Pressed Comb		ROLLED TYPE For use with Moulded Comb		SOLID-END CRIMP TYPE For use with Pressed Comb		CIRCLIP TYPE For use with Pressed Comb		CIRCLIP TYPE 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



EVOLUTION OF THE STANDARD SOCKET

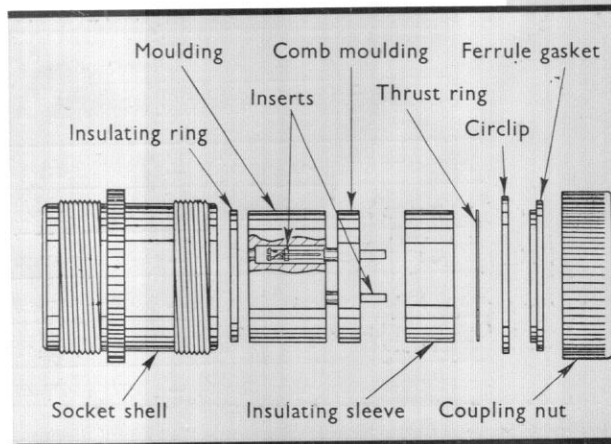
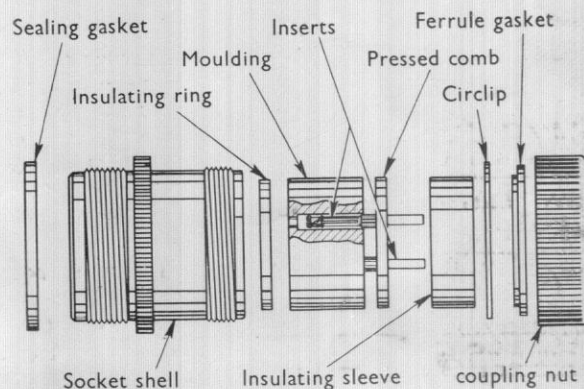


STAGE 4

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".



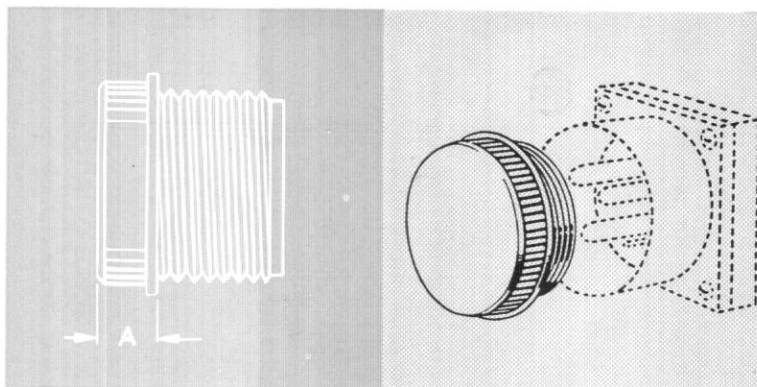
STAGE 6

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

PLUG & SOCKET ACCESSORIES

PLUG SEALING CAPS (Bakelite)

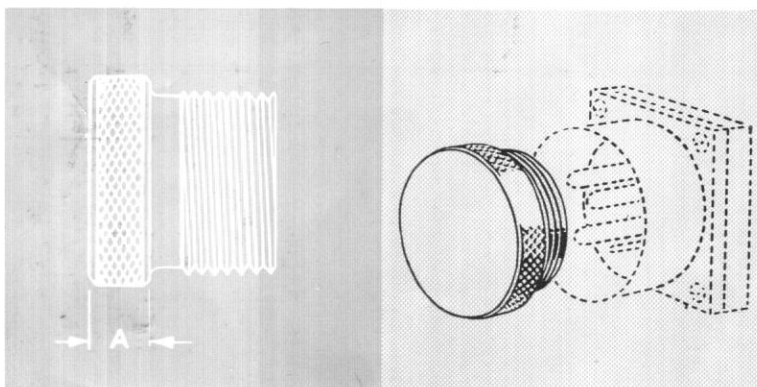
Designed to prevent the ingress of dust or moisture when the plug is not in use.



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

PLUG SCREENING CAPS (Aluminium)

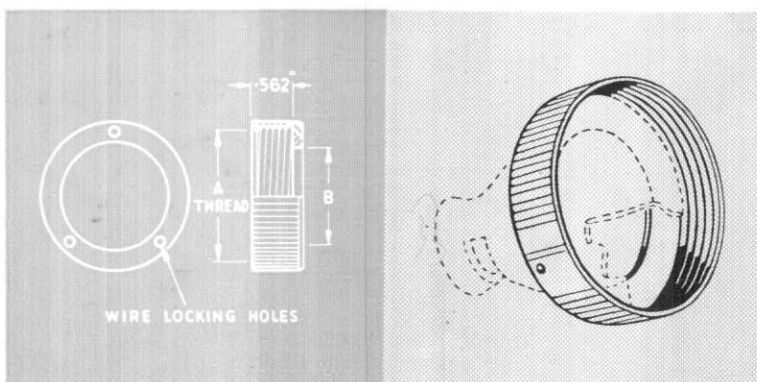
Designed to prevent the ingress of dust or moisture when the plug is not in use.



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

COUPLING NUTS (Aluminium or Steel)

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



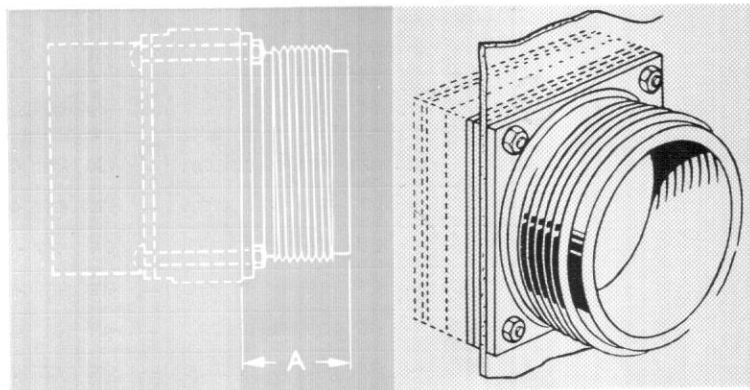
Size	ALUMINIUM			STEEL (Nickel Plated)			A	B
	Part No.	A/M Ref.	Weight oz.	Part No.	A/M Ref.	Weight oz.		
A	Z 61535	5X/6312	.11	2Z 109915	—	.34	.692x24 T.P.I.	.585
Z	Z 61536	5X/6500	.18	2Z 109916	—	.53	.875x20 T.P.I.	.723
B	Z 61537	5X/6405	.21	2Z 109917	—	.65	1.062x20 T.P.I.	.877
C	Z 61538	5X/6424	.26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

All dimensions are in inches.

PLUG & SOCKET ACCESSORIES

PLUG SHROUDS (Aluminium or steel)

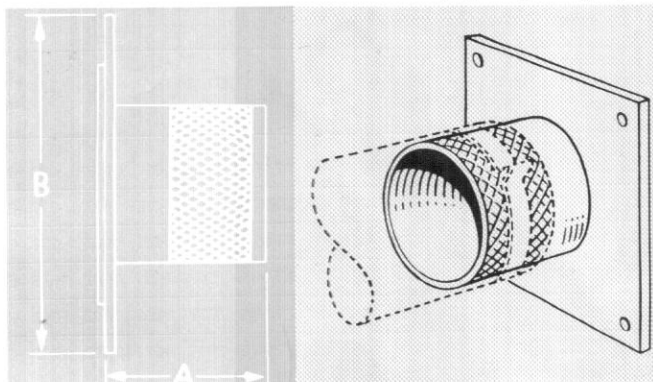
Designed for mounting at the rear of single plugs for the purpose of attaching cable fittings.



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

FERRULE PLATE ASSEMBLY (Brass)

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

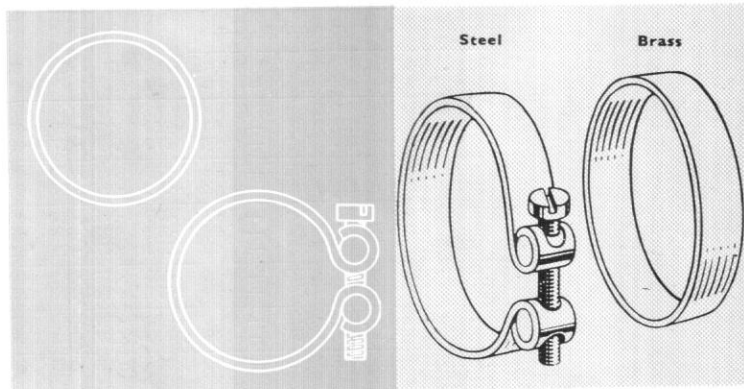


Size	Part No.	A/M Ref.	Ferrule size	Tubing size	A	B	Wt. oz.	Clamp Ring	A/M Ref.
A	CZ 24626	5X/6850	A	3/8	·722	1·000	·27	Z 18501/A	5X/1529
	CZ 24628	6631	Z	1/2	·909	1·000	·45	CZ 23144/Z	6440
Z	CZ 24632	6603	Z	1/2	·722	1·187	·35	CZ 23144/Z	6440
	CZ 24634	6797	B	5/8	·909	1·187	·54	CZ 23144/B	6488
B	CZ 24636	—	Z	1/2	·909	1·312	·39	CZ 23144/Z	6440
	CZ 24638	6604	B	5/8	·722	1·312	·42	CZ 23144/B	6488
	CZ 24640	6605	C	3/4	·909	1·312	·73	CZ 23144/C	6489
C	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
D	CZ 24648	6628	C	3/4	·909	1·812	·60	CZ 23144/C	6489
	CZ 24650	6180	D	1	·839	1·812	1·35	CZ 23144/D	3143
	CZ 24652	—	E	1-1/4	1·026	1·812	1·12	CZ 23144/E	6490
E	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.



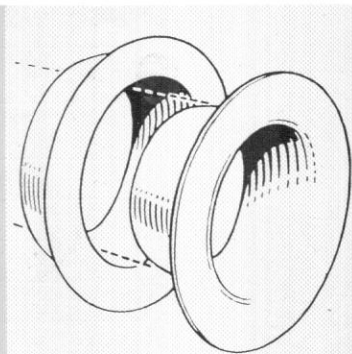
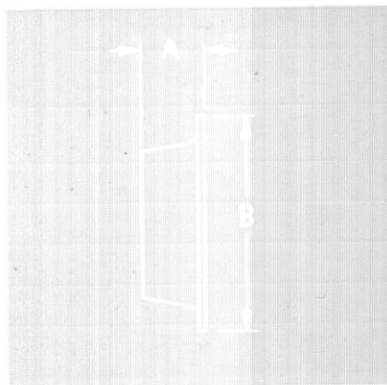
Size	PLAIN TYPE (BRASS) (Cadmium Plated)			SCREW TYPE (STEEL) (Cadmium Plated)		
	Part No.	A/M Ref.	Wt. oz.	Part No.	A/M Ref.	Wt. oz.
A	Z 18501/A	5X/1529	·04	—	—	—
Z	Z 18501/Z	5X/1530	·07	CZ 23144/Z	5X/6440	·24
B	Z 18501/B	5X/1531	·07	CZ 23144/B	5X/6488	·25
C	Z 18501/C	5X/1532	·09	CZ 23144/C	5X/6489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

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

PLUG & SOCKET ACCESSORIES

INNER AND OUTER FERRULES (Brass—nickel plated)

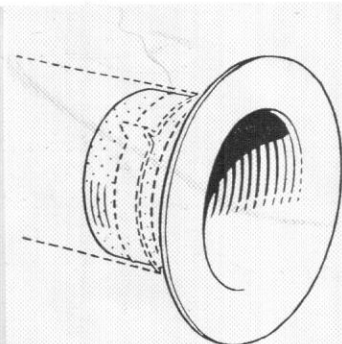
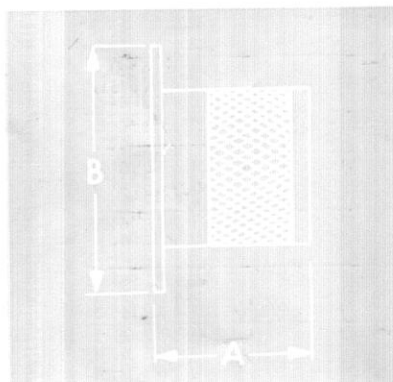
Designed to form a sound joint when using plastic tubing, loose braid or conduit.
May be used on a socket or with a plug shroud and coupling nut.



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

FERRULES FOR PLASTIC TUBING (Brass—electro-tinned)

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

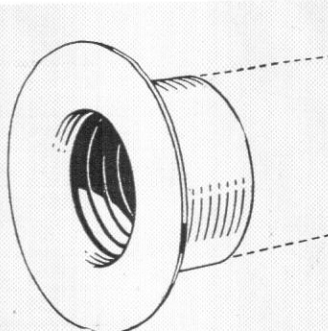
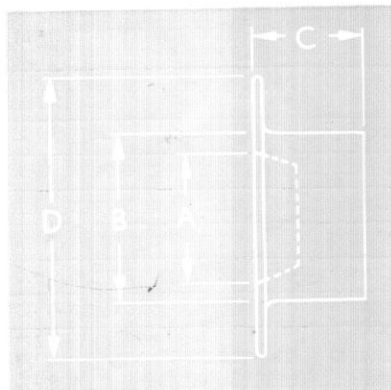


Size	STANDARD					OVERSIZE				
	Part No.	A/M Ref.	Tubing Size I/D	A	B	Wt. oz.	Part No.	A/M Ref.	Tubing Size I/D	Wt. oz.
A	Z 18500/A	5X/ 1522	.375	.750	.628	.14	Z 18764/A	5X/ 1546	.500	.937
Z	18500/Z	1523	.500	.750	.800	.19	18764/Z	1547	.625	.937
B	18500/B	1524	.625	.750	.990	.22	18764/B	1548	.750	.937
C	18500/C	1525	.750	.750	1.175	.30	18764/C	1549	1.000	1.062
D	18500/D	1526	1.000	.875	1.547	.58	18764/D	1550	1.250	1.062
E	18500/E	1527	1.250	.875	1.795	.81	18764/E	2187	1.500	1.062

Clamp rings for these ferrules are shown on page 23.

CONDUIT FERRULES TYPE "H" (Aluminium or brass)

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



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

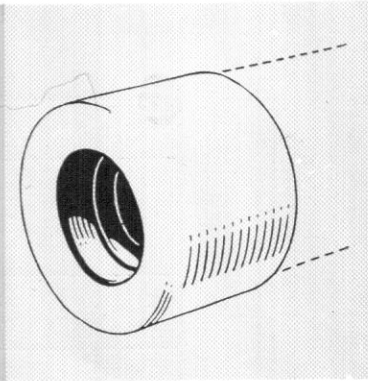
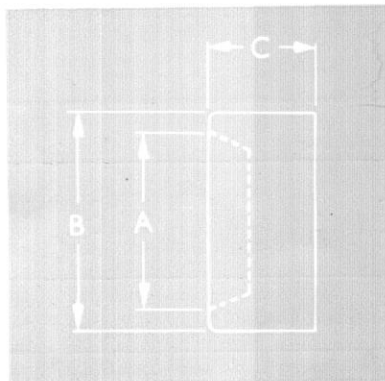
Coupling nuts for use with these items are listed on page 22. All dimensions are in inches.

Plessey

PLUG & SOCKET ACCESSORIES

CONDUIT FERRULES TYPE "G" (Aluminium or brass)

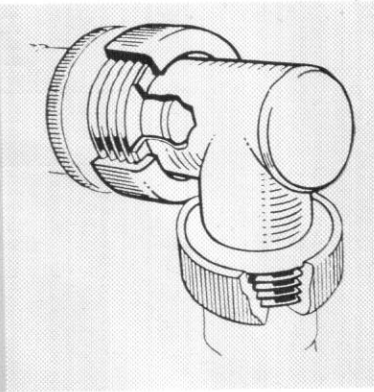
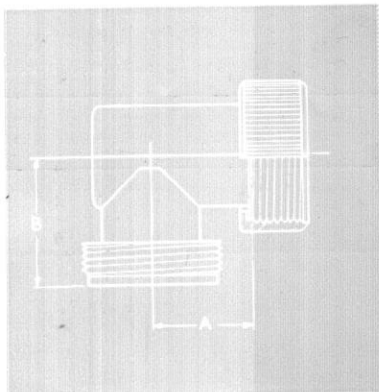
Designed for use with metal conduit and to be swaged or soldered into position.



Conduit Size	ALUMINIUM			BRASS (Nickel Plated)			A	B	C
	Part No.	A/M Ref.	Wt. oz.	Part No.	A/M Ref.	Wt. oz.			
3/8	Z 1431	5X/ 2073	.03	2Z 139938	5X/ —	—	.375	.572	.437
1/2	1432	2074	.04	139939	—	.12	.500	.697	.437
5/8	1433	1342	.05	139940	—	.14	.625	.828	.437
3/4	1434	2075	.07	139941	—	—	.750	.982	.500
1	1435	2076	.11	139942	—	.30	1.000	1.267	.625
1-1/4	1450	2077	.11	—	—	—	1.250	1.522	.625

ELBOW ASSEMBLY (Brass—nickel plated)

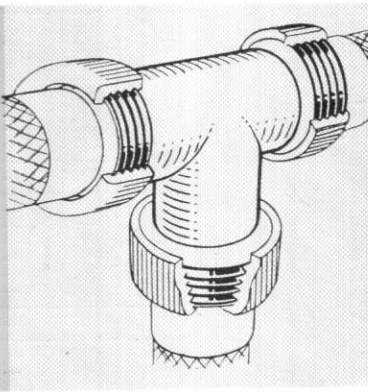
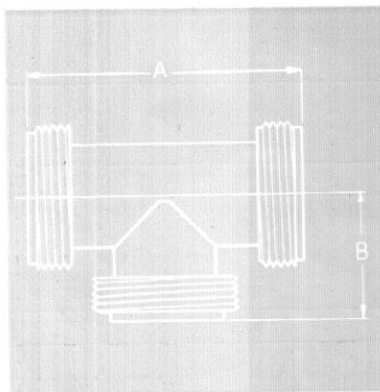
Designed to allow a right-angle entry into the rear of a socket or plug with a plug shroud.



Size	Part No.	A/M Ref. 5X/	A	B	Weight oz.
A	2CZ 139944	—	.70	.81	1.20
Z	2CZ 139945	—	.72	.93	1.42
B	2CZ 139946	—	.84	1.02	1.80
C	2CZ 139947	—	.94	1.02	2.56
D	2CZ 139948	—	1.12	1.31	4.18
E	2CZ 139949	—	1.18	1.50	5.24

TEE CONNECTORS (Brass—nickel plated)

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



Size	Part No.	A	B	Weight oz.
A	2CZ 139950	2.02	.81	1.09
Z	2CZ 139951	2.24	.93	2.12
B	2CZ 139952	2.50	1.02	3.34
C	2CZ 139953	2.74	1.02	3.55
D	2CZ 139954	3.00	1.31	6.86
E	2CZ 139955	3.25	1.50	6.96

All dimensions are in inches.

523140.

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5935-99-203-2

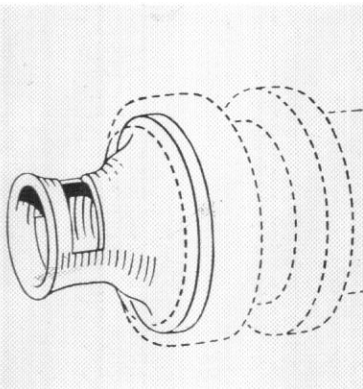
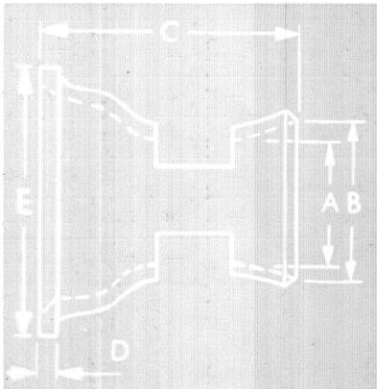
Plessey

Adams

PLUG & SOCKET ACCESSORIES

CUT FERRULES ROUND BASE (Brass—nickel plated)

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

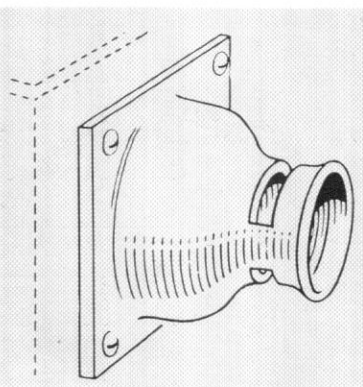
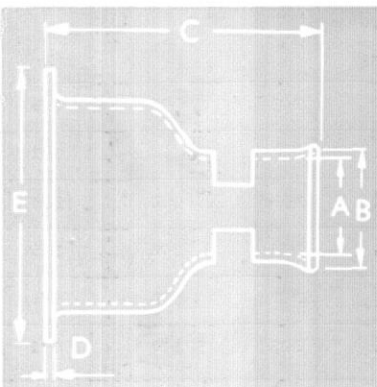


Size	Part No.	A/M Ref.	Wt. oz.	A	B	C	D	E
A	2Z 139956	—	.22	.275	.375	.625	.036	.625
	139957	—	.21	.355	.500	.687	.036	.625
	139958	—	.23	.405	.468	.625	.036	.625
	139959	—	.23	.442	.500	.687	.020	.625
Z	139960	—	.33	.355	.437	.750	.036	.800
	139961	—	.33	.505	.625	.687	.020	.800
B	139962	—	.42	.355	.500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

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

CUT FERRULES SQUARE BASE (Brass—nickel plated)

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



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

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

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6155	*28138	33	6363	*50411	34	6649	71906	36	6840/B	*111687	38	7128	*84874	11
6156	*50951	35	6364	*56076	35	6651	53206	35	6841	*56114	35	7129	*108946	11
6158	51396	35	6365	*60524	35	6662	*59831	35	6841/B	*111681	38	7130	*108951	11
6159	*51395	35	6366	*60528	35	6695	*73360	36	6842	*71761	36	7131	*108952	11
6179	50355	34	6367	*60530	35	6704	64591	36	6842/B	*111663	38	7132	*108954	11
6181	50356	34	6368	*60531	35	6705	64599	36	6843	*71776	36	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	111223	8
6188	*50398	34	6374	*56085	35	6761	50378	34	6846	*71780	36	7140	111399	8
6189	*50399	34	6374/B	*111692	38	6772	*56084	35	6846/B	*111691	38	7141	111400	8
6190	*50400	34	6375	*56089	35	6772/B	*111646	38	6847	*83851	36	7142	111401	8
6191	*50401	34	6375/B	*111693	38	6773	*71748	36	6851	*71783	36	7143	111402	8
6192	*50403	34	6376	*56093	35	6773/B	*111648	38	6851/B	*111719	38	7144	111403	8
6193	*50404	34	6376/B	*111695	38	6774	*56104	35	6867	69865	36	7145	111224	8
6194	*50405	34	6377	*56097	35	6774/B	*111653	38	6871	50392	34	7146	111404	8
6195	*50408	34	6377/B	*111697	38	6775	*56096	35	6873	*60501	35	7147	111299	8
6196	*50409	34	6378	*64772	36	6775/B	*111651	38	6873/B	*111707	38	7148	111405	8
6197	*50410	34	6378/B	*111696	38	6776	*56092	35	6913	84859	36	7149	111225	8
6198	*50412	34	6379	*56101	35	6776/B	*111649	38	6917	*71788	36	7150	111406	8
6199	*50413	34	6379/B	*111698	38	6777	*56100	35	6917/B	*111730	38	7151	111226	8
6200	*50414	34	6380	*56105	35	6777/B	*111652	38	6925	50386	34	7152	111227	8
6201	*50421	34	6380/B	*111699	38	6778	*71757	36	6929	*71758	36	7153	111228	8
6207	50377	34	6381	*56109	35	6778/B	*111656	38	6929/B	*111694	38	7154	111407	8
6262	50363	34	6381/B	*111700	38	6779	*56108	35	6930	*71792	36	7155	111408	8
6263	50364	34	6382	*64770	36	6779/B	*111654	38	6930/B	*111734	38	7156	111409	8
6264	50365	34	6382/B	*111701	38	6780	*56112	35	6932	59834	35	7157	111410	8
6265	50370	34	6383	*64771	36	6780/B	*111658	38	6933	*59853	35	7158	111411	8
6274	50329	34	6383/B	*111702	38	6781	*71751	36	6934	64872	36	7159	111412	8
6284	50383	34	6384	*56113	35	6781/B	*111659	38	7021	84864	9	7160	111413	9
6285	*62086	36	6384/B	*111704	38	6782	*71753	36	7022	84865	9	7161	111414	9
6289	55325	35	6385	*64517	36	6782/B	*111665	38	7023	108930	9	7162	111415	9
6290	*50407	34	6385/B	*111705	38	6783	*71754	36	7024	108933	9	7163	111416	9
6291	50390	34	6386	*64773	36	6783/B	*111666	38	7025	84866	9	7164	111417	9
6292	*50434	34	6386/B	*111711	38	6788	64595	36	7026	108932	9	7165	111418	9
6297	50373	34	6387	*56087	35	6798	*71760	36	7027	84867	9	7166	111419	9
6298	*50417	34	6387/B	*111715	38	6798/B	*111661	38	7028	84868	9	7167	111420	9
6299	*56067	35	6388	*56091	35	6799	*56088	35	7029	84869	9	7168	111421	9
6300	56068	35	6388/B	*111716	38	6799/B	*111647	38	7030	84870	8	7169	111422	9
6302	50372	34	6389	*56095	35	6800	*71778	36	7031	108914	8	7170	111423	9
6304	50381	34	6389/B	*111718	38	6800/B	*111688	38	7032	85945	8	7171	111424	9
6305	50382	34	6390	*56099	35	6801	*56094	35	7033	84871	8	7172	111425	9
6306	*50426	34	6390/B	*111720	38	6801/B	*111672	38	7034	108913	8	7173	111426	9
6307	*50427	34	6391	*56103	35	6802	*71781	36	7035	108915	8	7174	111427	9
6308	*56071	35	6391/B	*111721	38	6802/B	*111689	38	7036	108916	8	7175	111428	9
6309	*56065	35	6392	*56107	35	6811	*71768	36	7037	108923	8	7176	111429	9
6310	57216	35	6392/B	*111722	38	6811/B	*111673	38	7038	*84872	11	7177	111430	9
6313	56077	35	6393	*56111	35	6813	*71765	36	7039	*84873	11	7178	111431	9
6318	60492	35	6393/B	*111723	38	6813/B	*111662	38	7040	*108947	11	7179	111432	9
6319	*60522	35	6394	*56115	35	6821	*56086	35	7041	*108950	11	7180	111433	9
6321	*56078	35	6394/B	*111727	38	6821/B	*111669	38	7042	*108945	11	7181	111434	9
6326	50354	34	6420	50391	34	6822	*71749	36	7043	*108948	11	7182	111435	9
6327	50374	34	6421	*50416	34	6822/B	*111650	38	7044	*108944	11	7183	111436	9
6328	50375	34	6422	57212	35	6823	*56090	35	7045	*84875	11	7184	111437	9
6329	50358	34	6470	70185	36	6823/B	*111670	38	7046	*108949	11	7185	111438	9
6330	56073	35	6471	*70186	36	6824	*56098	35	7047	*84876	11	7186	111439	9
6331	60491	35	6479	58511	35	6824/B	*111674	38	7048	*84877	11	7187	111440	9
6332	60493	35	6575	*67679	36	6825	*56110	35	7049	*84878	11	7188	111441	9
6333	60494	35	6576	61468	35	6825/B	*111677	38	7050	108907	8	7189	111442	9
6334	60496	35	6577	61467	35	6826	*71759	36	7051	*84879	11	7190	111443	9
6335	60495	35	6598	56000	35	6826/B	*111657	38	7052	*84880	11	7191	111444	9
6336	60497	35	6608	*73359	36	6827	*71771	36	7053	*108963	11	7192	111445	9
6337	60478	35	6608/B	*111703	38	6827/B	*111680	38	7054	*108966	11	7193	111446	9
6338	60481	35	6609	*71785	36	6828	*71774	36	7055	*84881	11	7194	111447	9
6339	60483	35	6609/B	*111726	38	6828/B	*111684	38	7056	*108965	11	7195	111448	9
6340	50387	34	6610	*66955	36	6829	*71750	36	7057	*84882	11	7196	111449	9
6341	50366	34	6610/B	*111724	38	6829/B	*111655	38	7058	*84883	11	7197	111450	9
6342	50388	34	6611	*71764	36	6830	*71769	36	7059	*84884	11	7198	111451	9
6343	50367	34	6611/B	*111713	38	6830/B	*111678	38	7108	108906	8	7199	111452	9
6344	50368	34	6612	*71794	36	6831	*56106	35	7109	108908	8	7200	111453	9
6345	56075	35	6612/B	*111736	38	6831/B	*111676	38	7110	108909	8	7201	111454	9
6346	56069	35	6613	*71784	36	6832	*71752	36	7111	108910	8	7202	111455	9
6347	50371	34	6613/B	*111725	38	6832/B	*111660	38	7112	108911	8	7203	111456	9
6348	56079	35	6614	*71786	36	6833	*71773	36	7113	108912	8	7204	111457	9
6349	56070	35	6614/B	*111728	38	6833/B	*111683	38	7114	108917	8	7205	111458	9
6350	*50418	34	6615	*71763	36	6834	*71755	36	7115	108918	8	7206	111459	9
6351	*50419	34	6615/B	*111712	38	6834/B	*111667	38	7116	108922	8	7207	111460	9
6352	*50402	34	6616	*71793	36	6835	*71779	36	7117	108924	8	7208	111461	9
6353	*56074	35	6616/B	*111735	38	6835/B	*111690	38	7118	108905	8	7209	111462	9
6354	*60525	35	6617	*71756	36	6836	*71775	36	7119	108925	9	7210	111463	9
6355	*60527	35	6617/B	*111714	38	6836/B	*111685	38	7120	108926	9	7211	111464	9
6356	*60529	35	6618	*71795	36	6837	*56102	35	7121	108927	9	7212	111465	9
6357	*60526	35	6618/B	*111737	38	6837/B	*111675	38	7122	108928	9	7213	111466	9
6358	*60532	35	6625	*50440	34	6838	*71770	36	7123	108929	9	7214	111467	9
6359	*60498	35	6626	50396	34	6838/B	*111679	38	7124	108931	9	7215	111468	9
6360	*60508	35	6632	*55897	35	6839	*71762	36	7125	108935	9	7216	111469	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.

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

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CZ 1065	16	Obsolescent/No direct alternative	—	Z 1382/2	921	" 2Z 139965	26
CZ 1065/2	4016	Replaced by CZ 1065	—	Z 1383/2	330	" 2Z 139970	26
CZ 1066	22	Discontinued	—	Z 1384/2	319	" 2Z 139972	26
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CZ 1072	60	"	—	Z 1433/B	—	Replaced by 2Z 139940	25
CZ 1076	80	Replaced by 2CZ 111424	9	Z 1434	2075	"	25
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CZ 1088	30	"	—	Z 1435/B	—	Replaced by 2Z 139942	25
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CZ 1089/3	132	Obsolescent/No direct alternative	—	Z 1439/4	2086	" 2Z 139936/4	24
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CZ 1092	48	Obsolescent/Alternative 2CZ 111410	8	Z 1439/6	2088	" 2Z 139936/6	24
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CZ 1095A-2	182	Replaced by CZ 1095A/3	—	Z 1442	1571	"	24
CZ 1095A/3	182	Obsolescent/No direct alternative	—	Z 1450	2077	"	25
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CZ 1101-2/3	122	" 2CZ 111440	11	Z 1650	1513	Replaced by 2Z 84917	15
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CZ 1108-2/3	158	Discontinued	—	CZ 1760/2	4002	Replaced by CZ 1760	—
CZ 1110-2/3	110	"	—	CZ 1761-2	102	" CZ 1761/3	—
CZ 1110A-2/3	168	"	—	CZ 1761/3	102	Obsolescent/No direct alternative	—
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CZ 27987	6040	2CZ 84881	11	CZ 28181	6007	2CZ 84865	9
CZ 27988	6045	2CZ 108962	11	CZ 28182	6012	2CZ 111415	9
CZ 27989	6050	Discontinued	—	CZ 28183	6017	2CZ 108926	9
CZ 27991	6060	Replaced by 2CZ 108963	11	CZ 28185	6027	2CZ 111417	9
CZ 27992	6065	2CZ 108964	11	CZ 28186	6032	2CZ 108928	9
CZ 27993	6070	Discontinued	—	CZ 28187	6037	2CZ 84866	9
CZ 27994	6075	Replaced by 2CZ 111459	11	CZ 28188	6042	2CZ 108929	9
CZ 27995	6080	2CZ 108966	11	CZ 28189	6047	Discontinued	—
CZ 27997	6090	2CZ 84882	11	CZ 28191	6057	Replaced by 2CZ 108930	9
CZ 27998	6095	2CZ 111461	11	CZ 28192	6062	2CZ 108931	9
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CZ 28000	6105	2CZ 111463	11	CZ 28194	6072	Replaced by 2CZ 111424	9
CZ 28001	6110	2CZ 111464	11	CZ 28195	6077	2CZ 108933	9
CZ 28002	6115	2CZ 111465	11	CZ 28197	6087	2CZ 84867	9
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CZ 64773	6386	2CZ 108956	11	2CZ 83048	—	2CZ 138231	—
CZ 64855	—	Obsolete/No direct alternative	—	2CZ 83051	—	2CZ 139869	12
CZ 64872	6934	Discontinued	—	2CZ 83052	—	Obsolete/No direct alternative	—
CZ 64879	—	Obsolete/No direct alternative	—	2CZ 83054	—	Replaced by 2CZ 139885	12
CZ 66955	6610	Replaced by 2CZ 108964	11	2CZ 83055	—	2CZ 139887	12
CZ 66956	—	2CZ 108951	11	2CZ 83056	—	2CZ 139886	12
CZ 67679	6575	2CZ 139896	12	2CZ 83223	6744	2CZ 139888	12
CZ 69757	—	2CZ 139865	12	2CZ 83224	6745	2CZ 139889	12
CZ 69758	—	2CZ 139866	12	2CZ 83340	—	2CZ 138231	—
CZ 69759	—	2CZ 139867	12	2CZ 83341	—	*2CZ 83052	—
CZ 69760	—	2CZ 139875	12	2CZ 83456	—	2CZ 139882	12
CZ 69761	—	2CZ 139870	12	2CZ 83603	—	2CZ 139881	12
CZ 69865	6867	Obsolete/No direct alternative	—	2CZ 83607	—	2CZ 139907	12
CZ 69888	—	Replaced by 2CZ 108907	8	2CZ 83662	—	2CZ 139877	12
CZ 70185	6470	Obsolete/No direct alternative	—	2CZ 83851	6847	Obsolete/No direct alternative	—
CZ 70186	6471	Replaced by 2CZ 83851	—	2CZ 84005	—	—	—
CZ 70368	—	2CZ 139502	39	2CZ 84006	—	Replaced by 2CZ 138218	—
CZ 70369	—	2CZ 139841	39	2CZ 84007	—	2CZ 138219	—
CZ 70839	—	2CZ 139908	12	2CZ 84175	—	2CZ 138230	—
CZ 70840	—	2CZ 139909	12	2CZ 84253	—	2CZ 138210	—
CZ 70841	—	2CZ 139910	12	2CZ 84254	—	2CZ 138211	—
CZ 70866	—	Obsolete/No direct alternative	—	2CZ 84255	—	2CZ 139874	12
CZ 70868	—	—	—	2CZ 84259	—	2CZ 139872	12
CZ 70869	—	Replaced by 2CZ 138236	—	2CZ 84260	—	Obsolete/No direct alternative	—
CZ 70870	—	2CZ 138237	—	2CZ 84261	—	—	—
CZ 70871	—	2CZ 138232	—	2CZ 84262	—	Replaced by 2CZ 139873	12
CZ 70872	—	2CZ 138233	—	2CZ 84263	—	Obsolete/No direct alternative	—
CZ 71733	6634	—	—	2CZ 84264	—	—	—
CZ 71748	6773	Obsolete/No direct alternative	11	2CZ 84267	—	—	—
CZ 71749	6822	Replaced by 2CZ 111436	11	2CZ 84268	—	Replaced by 2CZ 138221	—
CZ 71750	6829	2CZ 111439	11	2CZ 84337	—	2CZ 139911	12
CZ 71751	6781	2CZ 111236	11	2CZ 84338	—	2CZ 139912	12
CZ 71752	6832	2CZ 111296	11	2CZ 84721	—	2CZ 139864	12
CZ 71753	6782	2CZ 111445	11	2CZ 84742	—	Obsolete/No direct alternative	—
CZ 71754	6783	2CZ 111238	11	2CZ 84743	—	—	—
CZ 71755	6834	2CZ 111446	11	2CZ 84859	6913	—	—
CZ 71756	6617	2CZ 108942	11	2CZ 84860	—	Replaced by 2CZ 138229	—
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CZ 71758	6929	2CZ 108943	11	2CZ 84865	7022	—	9
CZ 71759	6826	2CZ 111441	11	2CZ 84866	7025	—	9
CZ 71760	6798	2CZ 111237	11	2CZ 84867	7027	—	9
CZ 71761	6842	2CZ 111443	11	2CZ 84868	7028	—	9
CZ 71762	6839	2CZ 111444	11	2CZ 84869	7029	—	9
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CZ 71764	6611	2CZ 108957	11	2CZ 84871	7033	—	8
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CZ 71766	6845	2CZ 111447	11	2CZ 84873	7039	—	11
CZ 71768	6811	2CZ 111452	11	2CZ 84874	7128	—	11
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CZ 71770	6838	2CZ 111458	11	2CZ 84876	7047	—	11
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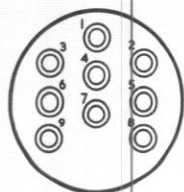
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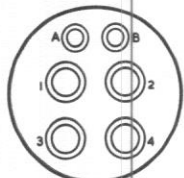
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2CZ 139874	—	12	2Z 139960	—	26
2CZ 139875	—	12	2Z 139961	—	26
2CZ 139876	—	12	2Z 139962	—	26
2CZ 139877	—	12	2Z 139963	—	26
2CZ 139878	—	12	2Z 139964	—	26
2CZ 139879	—	12	2Z 139965	—	26
2CZ 139880	—	12	2Z 139966	—	26
2CZ 139881	—	12	2Z 139967	—	26
2CZ 139882	—	12	2Z 139968	—	26
2CZ 139883	—	12	2Z 139969	—	26
2CZ 139884	—	12	2Z 139970	—	26
2CZ 139885	—	12	2Z 139971	—	26
2CZ 139886	—	12	2Z 139972	—	26
2CZ 139887	—	12	2Z 139973	—	26
2CZ 139888	—	12	2Z 139974	—	26
2CZ 139889	—	12	2Z 139975	—	26
2CZ 139890	—	12	2Z 139976	—	26
2CZ 139891	—	12	2Z 139977	—	26
2CZ 139892	—	12	2Z 139978	—	26
2CZ 139893	—	12	2Z 139979	—	26
2CZ 139894	—	12	2Z 139980	—	26
2CZ 139895	—	12	2Z 139981	—	26
2CZ 139896	—	12	2Z 139982	—	26
2CZ 139897	—	12	2Z 139983	—	26
2CZ 139898	—	12	2Z 139984	—	26
2CZ 139899	—	12	2Z 139985	—	26
2CZ 139900	—	12	2Z 139986	—	26
2CZ 139901	—	12	2Z 139987	—	26
			2Z 139988	—	26
			2Z 140052	—	13
			2Z 140053	—	13

Only assemblies in heavy type are of current manufacture



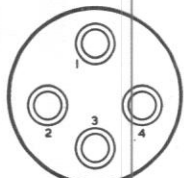
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Nine 7A



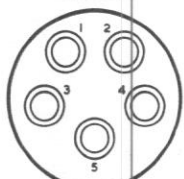
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Two 7A
Four 19A



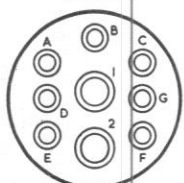
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Four 19A



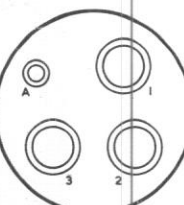
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Five 19A



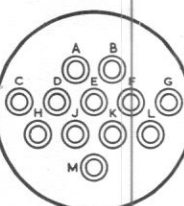
11

Seven 7A
Two 19A



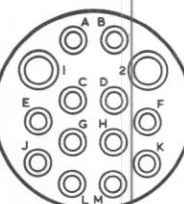
12

One 7A
Three 37A



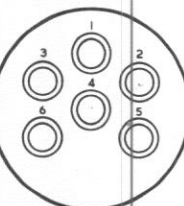
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Twelve 7A



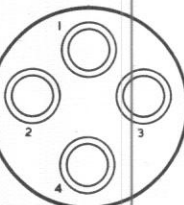
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Twelve 7A
Two 19A



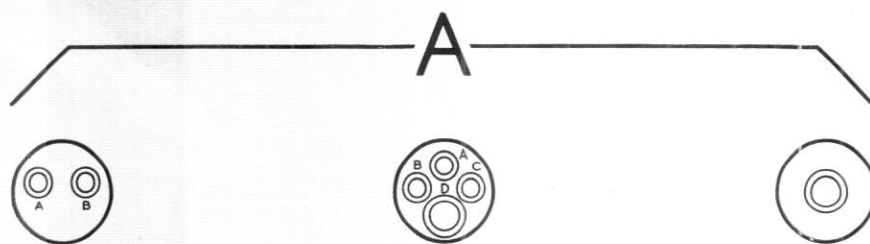
15

Six 19A



16

Four 37A



1

Two 7A

2

Three 7A
One Sp. 7A

3

One 19A

CONTACT COMBINATIONS

6 SIZES AND 23 CONTACT COMBINATIONS

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

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

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

KEEP THIS PAGE OPEN FOR EASY REFERENCE

DIAGRAMS ARE ACTUAL SIZE

VIEWS FROM MATING END OF NORMAL SOCKET

STANDARD PLUGS AND SOCKETS

4

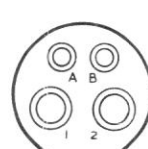
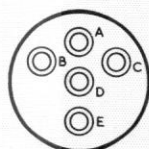
Five 7A

5

Two 19A

6

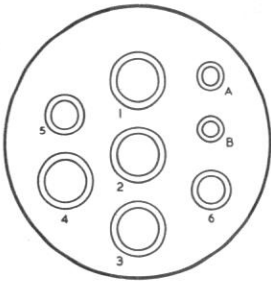
Two 7A
Two 19A



Z

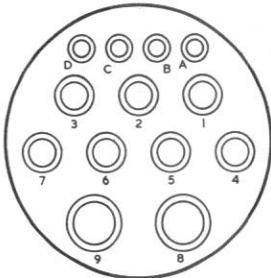
17

Two 7A
Two 19A
Four 37A



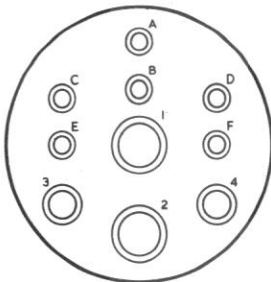
18

Four 7A
Seven 19A
Two 37A



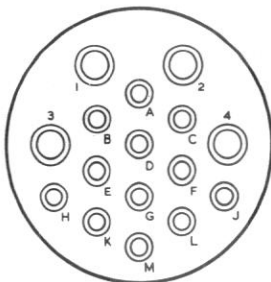
19

Six 7A
Two 19A
Two 37A



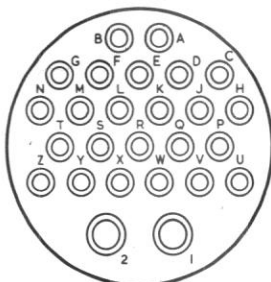
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Twelve 7A
Four 19A



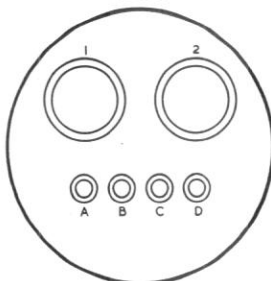
21

Twenty-four 7A
Two 19A



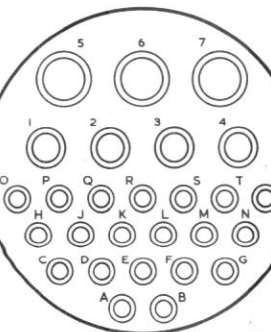
22

Four 7A
Two 64A



23

Twenty 7A
Four 19A
Three 37A



D

E

Products of the

Plessey

Group of Companies

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

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

Components Group

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

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

Electronic and Equipment Group

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

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

Swindon Group

Cast Permanent Magnets
Cold Moulded Insulating Materials
Electrical Connectors and Fuse and Terminal Blocks
Electrolytic Capacitors
Flexible Seamless Metal Hoses
Gauges, Drill Jigs and Fixtures
High Speed Tools
Hydraulic Control Valves
Hydraulic Pumps and Rams
Investment Castings
Jigs and Press Tool Sets
Loudspeaker Cones
Machined Parts and Assemblies
Metal Braiding and Flexible Conduit
Miniature Ceramic Capacitors
Moulded Fibre Products
Paper Capacitors
Potentiometers & Variable Resistors
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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

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