

ALL the cable-plugs and sockets on this page conform to accurate valve-base and holder dimensions. They are of black moulded bakelite. The new top-connectors are a necessity with modern valves; the types here shown fill all requirements. No other organisation offers such a large range or selection.



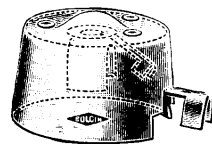
**SCREW ON ADAPTOR**

TO screw on to old type valves and to take P.41, P.43, or P.64 connectors.  
List No. P.68 Price 2d.



**CLIP ON ADAPTOR**

TO convert new type valves to insulated screw terminal connection.  
List No. P.66 Price 3d.



**SCREENED CONNECTORS**  
FROSTED aluminium, with insulated contact and clamp for wire and braiding.  
List No. P.64 6d.  
Shallower model  
List No. P.65 6d.



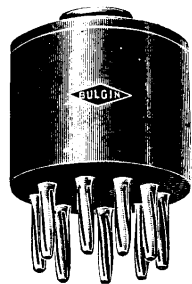
**INSULATED CONNECTORS**

FOR top bosses of new type valves. Shrouded with bakelite.  
List No. P.43 Price 1d.



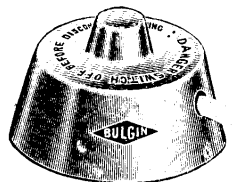
**STANDARD CONNECTOR**

FOR top bosses of new type valves. Solder or clamp wire.  
List No. P.41 Price 3 for 2d.



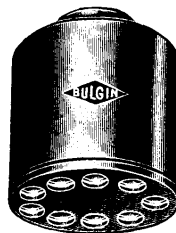
**LARGE CABLE PLUGS**

THESE plugs are similar to the above sockets in simplified construction, with hollow pins for tip-soldering of cables.  
List No. Pins Price  
P.63 9 } 1/9  
P.72 English 7 } EACH  
P.71 5 }



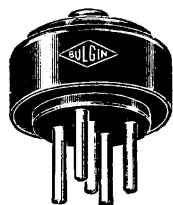
**HIGH-VOLTAGE INSULATED VALVE TOP CONNECTOR**

THIS new type of clip-on connector is specially intended for use in and with Television apparatus, and with high-voltage rectifiers. Tested at up to 20,000 volts. Takes 5mm. cable, and is fully shock-proof. Simply clip on to valve.  
List No. P.92 9d. EACH



**LARGE CABLE SOCKETS**

THESE new socket connectors are for soldered connections. Ample room provided to grip cables. Three types.  
List No. Sockets Price  
P.69 9 } 1/9  
P.67 English 7 } EACH  
P.75 5 }



**FLAT 5-PIN CABLE PLUG**

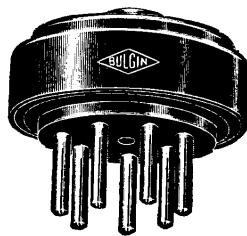
A NEW component with removable pins and large terminals for ease of wiring. With cord grip and quick-thread cap. Moulded in bakelite.  
List No. P.36 1/3 EACH



**CABLE PLUGS AND CABLE SOCKETS**

THESE useful connectors have pins and sockets to standard valve dimensions and spacing. With terminals beneath screwed-on cover. Moulded bakelite, highly polished.

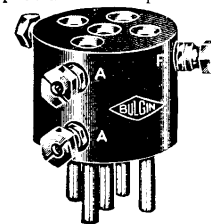
**PLUGS:**  
5-Pin, List No. P.3. 2/-  
4-Pin, List No. P.9 1/9 EACH  
**SOCKETS:**  
5-Pin, List No. C.19 2/-  
4-Pin, List No. C.18 1/9 EACH



**FLAT 7-PIN CABLE PLUG**

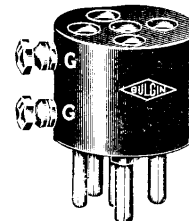
THIS new plug is of similar construction to the five-pin model on the left. It has removable pins, and large internal terminals. With cord-grip and quick-thread cover.  
List No. P.37 1/9 EACH

HERE we present a large number of valve adaptors, having one or more of the through connections split or tapped. These adaptors are invaluable to all dealers, constructors and service-men, for with their aid tests on valves and sets are made extremely easily and quickly. Some of the adaptors are of great value in connecting pick-ups and microphones; others permit the rapid connection of extra amplifiers, short-wave adaptors, and so forth. All are of great utilitarian value. Metal parts in each adaptor are nickel-plated. Bakelite and best ebonite insulation is used throughout.



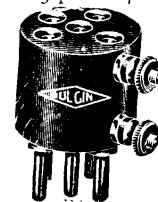
**TAPPED & SPLIT ADAPTOR**

A MOST useful 5-pin adaptor for connecting S.W. adaptors, Q.P.P. or Class B output stages, etc. With filament pins tapped and anode connection split. Terminals are locked against accidental loosening.  
List No. A.50 2/6 EACH



**PICK-UP ADAPTORS ("Split-Grid")**

WITH these, pick-ups (with or without switch) may be connected into sets without disturbing wiring. Useful also with microphones, etc. Made in two types.  
List No. Type Price  
A.15 4-pin 1/6 EACH  
A.16 5-pin 1/9 EACH



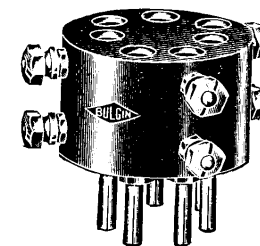
**SPLIT-ANODE ADAPTORS**

THE popular and original "split-adaptors" of multitudinous uses. For checking anode currents, proving emission, etc.  
List No. Type Price  
A.7 4-pin 1/6 EACH  
A.8 5-pin 1/9 EACH

THE adaptors in the outer columns are all for 4- and 5-pin valves of standard types, whether A.C., UNIVERSAL, or BATTERY sets are concerned.

Those in the centre column are for 7-pin valves of both English and Continental pin spacing.

All terminals are standard 6B.A. Adaptors with more than one split have link-strips provided.



**7-PIN SPLIT ADAPTOR (Illustrated)**

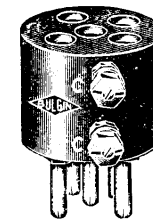
THIS adaptor has a number of splits so that apparatus or meters may be inserted into grid, anode, screen circuits, etc., according to type of valve in use. With locked terminals and links. English spacing only.  
List No. A.17 2/6 EACH

**7-PIN ALL-SPLIT ADAPTOR English Spacing**

A POPULAR adaptor of most universal use. One filament and all other pins are split and provided with links. Most comprehensive and varied tests can be carried out.  
List No. A.18 3/- EACH

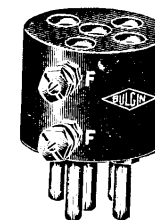
**7-PIN ALL-SPLIT ADAPTOR Continental Spacing**

THIS adaptor has similar uses to type A.18 above, but has the pins and sockets arranged to Continental spacing. For use with many A.C./D.C. type valves with foreign bases (not American).  
List No. A.19 3/- EACH



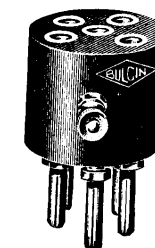
**SPLIT-CENTRE ADAPTOR**

MADE in 5-pin type only, and with centre connection split and brought to two side terminals. A mA.-meter may be connected to measure cathode current or the sum of anode- and screen-currents.  
List No. A.11 1/9 EACH



**SPLIT-FILAMENT ADAPTORS**

THESE adaptors are chiefly used for inserting ammeters for measuring filament current, limiting resistors, etc. With locked terminals, without link.  
List No. Type Price  
A.12 4-pin 1/6 EACH  
A.14 5-pin 1/9 EACH

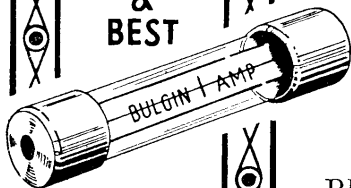


**PENTODE ADAPTOR**

WITH tapped centre-connection and removable pin, enabling interchange of pentodes in a given socket.  
List No. A.10 1/9 EACH

# SAFE, SIMPLE, AND SURE

FIRST  
&  
BEST



CARRYING  
RATINGS  
from  
60 mA  
to  
5 Amps

INSTANT  
BLOWING  
at  
50-75%  
OVERLOAD

COMPLETE  
CLEARING  
EVEN  
IN  
LOW-Ω  
CIRCUITS

ABSOLUTE  
SAFETY  
FROM  
DANGER  
OF  
FIRE

## BULGIN RADIOFUSES ARE MADE TO B.S.I. AND R.C.M.F. SPECIFICATIONS

BULGIN glass-enclosed radio fuses were the first special cartridge fuses to have the requisite characteristics and to be manufactured specially for radio uses. They provide an inexpensive safeguard which no-one can afford to ignore. They are convenient to handle, are easily replaced, and are *absolutely fireproof*. Fitted with nickel-plated end-caps, and hermetically sealed. Rating labels with colour-coding are fitted for instant recognition of value. Made to R.C.M.F. and B.S.I. specifications.

### LONG TYPE, 1 1/2"

Type	Capacity	Code	Carrying Colour
R	150 mA.	Red.	
S	250 mA.	Brown	
T	500 mA.	Yellow	
U	750 mA.	Green	
V	1 A.	Dk. Blue	
VA	1.5 A.	Lt. Blue	
W	2 A.	Purple	
X	3 A.	White	
XA	5 A.	Blk. & White	

Specify type when ordering

### MIDGET TYPE, 3/8"

Type	Capacity	Code	Carrying Colour
Y	60 mA.	Black	
Z	150 mA.	Red	

Specify type when ordering.

### SHORT TYPE 1"

Type	Capacity	Code	Carrying Colour
K	150 mA.	Red.	
L	250 mA.	Brown	
M	500 mA.	Yellow	
N	750 mA.	Green	
O	1 A.	Dk. Blue	
OA	1.5 A.	Lt. Blue	
P	2 A.	Purple	
Q	3 A.	White	

Specify type when ordering

ALL THREE  
TYPES  
PRICE  
**6**  
D.  
EACH

### "PAK" 1 1/2" CARTRIDGE FUSES

ESPECIALLY in the primary circuits of A.C. mains transformers it is found that initial surge currents of short duration can blow fuses unnecessarily. These "Pak" fuses (pat. app. for) have a thermal lag enabling them to withstand short surges of three or four times rating. At 100% overload they blow in 2-3 mins. or less. On full short-circuit they blow instantly.

List No. Continuous Price

Carrying	
PAK. 1 250 mA.	9 D. EACH
PAK. 2 500 mA.	
PAK. 3 750 mA.	

List No. Continuous Price

Carrying	
PAK. 4 1 Amp.	9 D. EACH
PAK. 5 1.5 Amp.	
PAK. 6 2 Amps.	

### BULGIN "DELAY-FUSES"

THESE new fuses are for use in the heater circuits of modern universal valves to blow at 10-15% overload of normal rating, and yet withstand 60-sec. overloads of five and six times normal. They have a special construction with incorporated heater element and thermal lagging. Caps are standard M.E.S.

List No. D.F.1,

List No. D.F.2,



(Patent Pending)

for c.2 A.  
Heaters

PRICE  
**1/6**  
EACH

for 0.3 A.  
Heaters

**BULGIN**

BARKING & LONDON

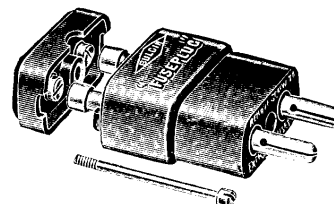
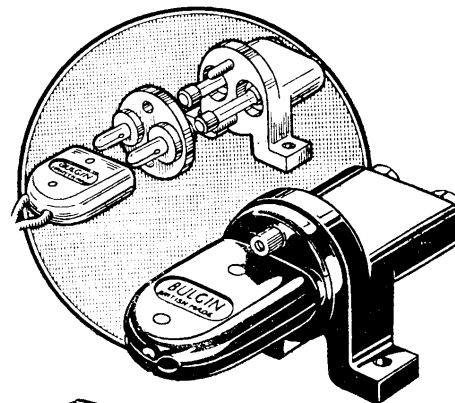
## FUSE HOLDER & MAINS CONNECTORS 29

### COMBINED TWIN FUSEHOLDER AND MAINS CONNECTOR

THIS unique component fills a want that is often felt, especially with modern sets where economy of space is an important factor. The enclosed cartridge fuses (1" type, p.28) can only be handled when both poles of the mains are off. Upon removing the pin-carrying plate, the fuses are readily accessible being projected forward by the helical contact springs. The socket portion is to standard 5-A. specification and is, of course, connected to the mains. Designed for base-board mounting, finished in highly polished bakelite. *The ideal method of mains connection and protection.*

**3/-**  
EACH

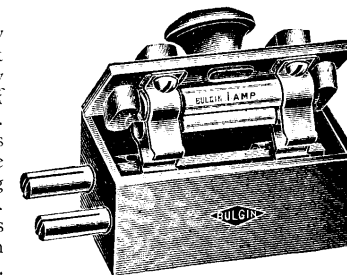
List No. F.15



### BULGIN "FUSEPLUG"

AN ingenious fitting for the connection of all sets, eliminators, soldering-irons, etc., to the supply mains. Complete with two internal 1" fuses (1 A. unless otherwise specified). Fits all standard two-pin 5 A. sockets, and in case of breakdown leaves house fuses intact. Fuses cannot be handled while plug is "live." List No. P.25 Walnut } **2/-**  
List No. P.27 Mahog. }  
Complete with 1" fuses, EACH shown on p.28.

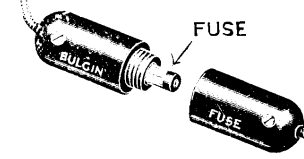
FUSES are a necessary precaution to prevent serious damage; they are the safety-valves of electrical equipment. By fitting these holders with small radio type fuses of suitable rating in most cases 1 A. is correct—house fuses will not be blown in the event of breakdown, avoiding annoyance and inconvenience.



### SAFETY FUSEHOLDER AND MAINS CONNECTOR

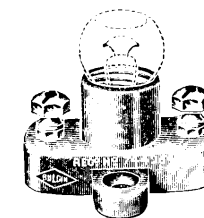
A NEW mains connector and fuseholder for eliminators, sets, radio-grams., etc. The fuses fit in the lid and are withdrawn with it, becoming "dead" for handling. The lid clips firmly into position. For use with P.29 socket, see p.39.

List No. F.18 **2/6**  
Complete with fuses. EACH



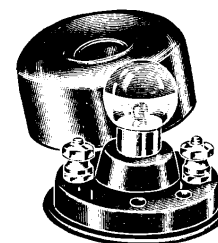
### ACCUMULATOR OR FLEX- WIRE FUSEHOLDER

CONSISTS of a moulded screw cap holder with fuse inserted between the two end contacts. Simply cut flex wire and connect ends as shown. Very suitable for connection in the H.T.-ve lead when a 150 or 250 mA. fuse should be used. Normally supplied with 1 A. fuse (1" type, p.28). List No. F.10 **1/-**  
Complete



### SINGLE FUSEHOLDER

Regd. Design No. 744264  
DON'T risk burning out expensive sets of valves. Mottled bakelite moulding with nickel-plated fittings. Size 1 1/2" x 1 1/4" x 1/2". Without fuse bulb. List No. F.5 **6** D. EACH



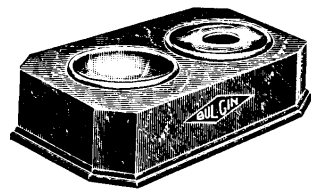
### ALL-INSULATED FUSE-HOLDER

A NOVEL M.E.S. bulb holder for fuses with removable bakelite cover enclosing terminals. Wires are brought through the base to the terminals. With-out Bulb. List No. F.7 **6** D. EACH

A. F. BULGIN & Co. Ltd.

**BULGIN**

BARKING & LONDON



**DUPLEX BAKELITE  
NEEDLE-HOLDER**

THIS original and handsome dual needle-holder has been incorporated in countless thousands of gramophones and radio-gramophones. Its fixing screws are concealed beneath the cups, and it forms an attractive and useful addition to any cabinet.

The cup for used needles has a cover, so that they cannot accidentally be re-used. Both cups are finished in a Florentine bronze to harmonize everywhere. The bakelite moulding is highly polished.

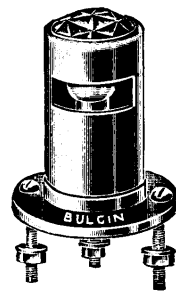
List No. N.C.1 Walnut **1/6**  
List No. N.C.7 Mahog. **EACH**



**NEW-NEEDLE TRAY**

COMPRISING a polished nickel-plated surround and a gilt finished cup, this accessory is designed for semi-surface mounting, the maximum diameter being 2 3/4". Also in all-Florentine Bronze finish.

List No. N.C.2 **1/3**  
In Florentine Bronze **1/6**  
List No. N.C.2.F **EACH**



**GRAMOPHONE SIGNAL LAMP**

A USEFUL low-voltage fitting for M.E.S. bulbs (see p.43) for turntable illumination. Avoid damage by scratching records. With red warning lens at top. Nickel-plated.

List No. D.8 as shown **2/6**

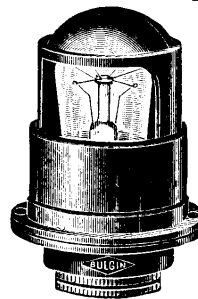
List No. D.6 with switch **3/6**

Florentine Bronze Finish:

List No. D.8F as shown **2/6**

List No. D.6F with switch **3/6**

**EACH**



**MAINS GRAMOPHONE SIGNAL  
LAMP**

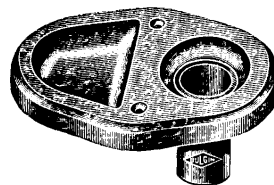
A NEW fitting in walnut bakelite for turntable illumination deluxe. Standard B.C. holder, takes 15-watt bulbs. Easily mounted and wired to mains. Switches on pp. 57-61 may be used in conjunction.

Without bulb. **3/6**  
List No. D.31 **EACH**

**GILT NEEDLE-CUPS FOR FLUSH MOUNTING**

ATTRACTIVE gilt-finished needle-cups designed for flush mounting in the motor board; these accessories are fitted by simply drilling a 1 3/8" diameter hole, and pressing into position. Two types are available, one for new and one for used needles, this latter having a detachable cover.

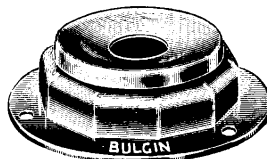
List No. N.C.4 **1/6**  
List No. N.C.5 **1/9**  
**PER PAIR**



**FLUSH BAKELITE  
NEEDLE-HOLDER**

A MODERN design of dual needle-holder to harmonize with the most modern furniture and gramophones, both of the acoustic and electric types. It is executed in finely-grained and highly-polished moulded bakelite, and carries a used needle cup of Florentine-bronzed metal which, in use, projects down through the motor board. Used needles cannot be used accidentally.

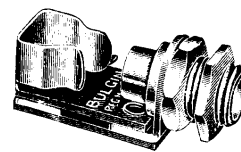
List No. N.C.6 **2/-**  
Finely-grained  
Italian walnut **EACH**  
List No. N.C.8  
Standard walnut



**USED-NEEDLE TRAY**

EXACTLY similar in appearance to type N.C.2 shown on the left, but with the addition of a cover, preventing the accidental use of spent needles.

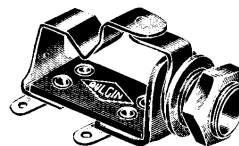
List No. N.C.3 **1/3**  
In Florentine Bronze **1/6**  
List No. N.C.3.F **EACH**



**SINGLE CIRCUIT JACK**

Reg. Design No. 742925  
A MINIATURE telephone jack which only projects 1" behind the panel. Any telephone plug of standard size will fit this jack and make excellent contact.

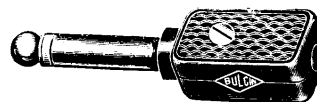
Bakelite insulation. **1/-**  
List No. J.2. **EACH**



**CLOSED CIRCUIT JACK**

THIS useful jack connects its points together when a plug is withdrawn, thus restoring the circuit. By this means it is useful for series connected phones, the insertion of milliammeters, and similar monitoring in all circuits. Bakelite insulation, and fitted with soldering tags.

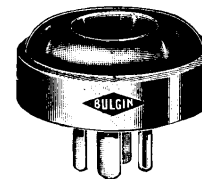
**1/3**  
List No. J.6 **EACH**



**SMALL MOULDED  
BAKELITE JACK PLUG**

A NEW jack plug with contacts nickel-plated and of standard dimensions but with smaller moulding enclosing the terminals. Easily wired, and provided with internal cord-grips. Co-axial cable entry. Available in black bakelite with mottled design on panels. A useful and inexpensive model for use with all types of jacks.

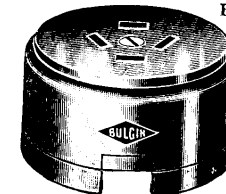
List No. P.38 **1/3**  
**EACH**



**FLAT-PIN EXTENSION  
PLUGS**

MOULDED in bakelite and highly polished, these plugs are fitted with terminals and cord-grip means, and have flat pins. Dangerous confusion with mains fittings is avoided. Cable entry at side.

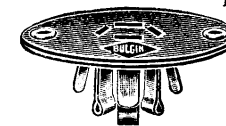
Available as follows:—  
List No. P.83 2-pin **9D.**  
List No. P.81 4-pin **1/3**  
**EACH**



**FLAT-PIN TYPE WALL  
EXTENSION SOCKETS**

A NEW moulded bakelite socket, shrouded and shockproof, for loud-speaker extensions. Cannot be confused with mains sockets. Dia. 1 1/2". With internal terminals, side or rear entry of line.

List No. P.82 2-pin **1/-**  
For three- or four-wire extensions (i.e., where L.S. field is extended also). **EACH**  
List No. P.80 4-pin **1/6**  
**EACH**

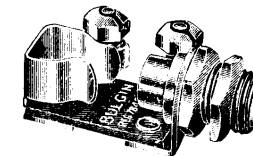


**FLAT-PIN TYPE CHASSIS  
EXTENSION SOCKETS**

FOR use with the above flat-pin plugs, these chassis sockets have special resilient contacts mounted on 2" bakelite discs with guard plate. Suitable for conduit-box mounting.

List No. P.85 2-pin **9D.**

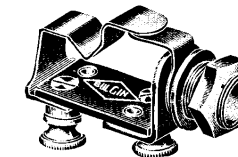
**EACH**  
FOR three- or four-wire extensions (i.e., where L.S. field is extended also). **1/-**  
List No. P.84 4-pin **EACH**



**SINGLE CIRCUIT JACK**

Reg. Design No. 742925  
THIS miniature telephone jack being fitted with terminals is ideal for the home constructor and can be easily connected to the anode terminals of the last valve-holder and to the H.T. supply.

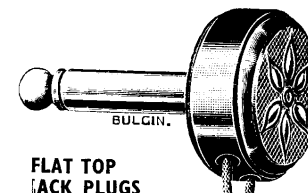
List No. J.3. **1/3**  
**EACH**



**CLOSED CIRCUIT JACK**

THIS jack is similar to No. J.6, but has terminals. One of these may be wired in an anode circuit, and a milliammeter wired to a plug; anode current can then be read, and the circuit completed when the meter is removed.

List No. J.7 **1/6**  
**EACH**



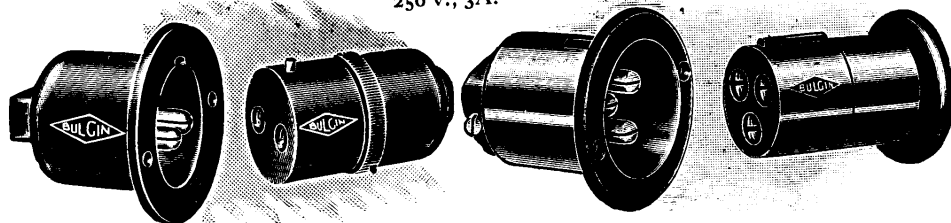
**FLAT TOP  
JACK PLUGS**

THESE plugs are for either telephones or loudspeakers when used with all our standard jacks as well as other makes. Wire entries are at the side and clamping screws concealed. Attractive embossed design, polished bakelite.

List No. P.15 BLACK  
List No. P.16 BROWN  
List No. P.23 WALNUT  
List No. P.24 MAHOGANY

PRICE **1/6** **EACH**

250 v., 3A.



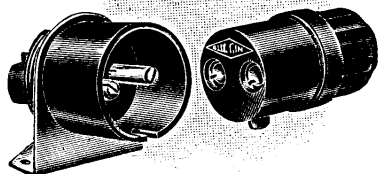
### FLUSH MOUNTING MAINS PLUG AND SOCKET

Reg. Design No. 756088

THE ideal connector for the mains entry to all types of radio and electrical apparatus. The socket (with pins) fits flush in the apparatus, and the plug is non-reversible and shock-proof. Terminals in each part; highly polished bakelite. 3-A. **List No. P.20** **2/-** EACH  
Specify Black, Walnut, or Mahogany.

### FLUSH MOUNTING THREE-PIN MAINS PLUG AND SOCKET

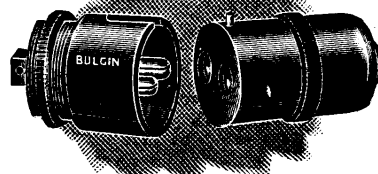
A NEW irreversible mains connector for all types of mains apparatus. A third pin is provided for an earth connection to be made simultaneously. Terminals fitted to both parts. Highly polished bakelite. **List No. P.73** **2/3** EACH  
As above, but two-pin **List No. P.74** **2/-** EACH



### BASEBOARD-MOUNTING SMALL MAINS PLUG AND SOCKET

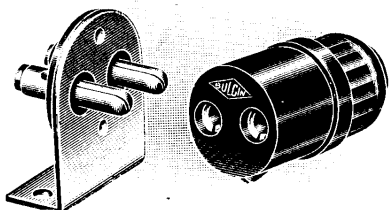
Reg. Design No. 762932

ANOTHER 3-A. connector for baseboard fixing, popular with the home constructor. Non-reversible and with terminals on both parts. Completely shrouded, shock-proof; for all radio apparatus, etc. **List No. P.23** **2/3** EACH



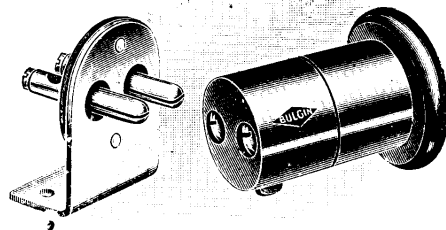
### PANEL OR CHASSIS MOUNTING SMALL MAINS PLUG AND SOCKET

A VERY useful mains connector. It can be mounted on a metal chassis or cabinet side, and is irreversible as to polarity of connection. Terminals are fitted to both members. Highly polished moulded bakelite, shockproof. **List No. P.18** **2/-** EACH



### SMALL BASEBOARD-MOUNTING MAINS PLUG AND SOCKET

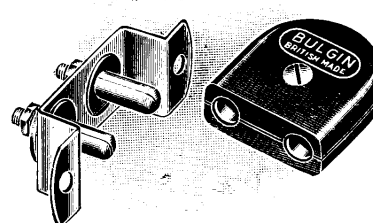
A USEFUL 3-A. mains plug and socket, reversible, completely shrouded socket, and baseboard fixing plug for inside set. Inexpensive and useful for all mains apparatus. **List No. P.33** **1/9** EACH  
The above without bracket, plug member to be mounted on chassis. **List No. P.34** **1/6** each.



### SMALL BASEBOARD MOUNTING MAINS PLUG AND SOCKET

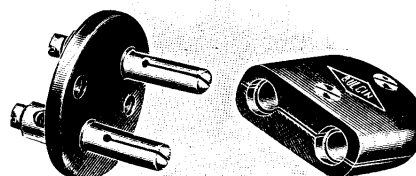
SIMILAR to the model on the left, this is fitted with the new socket member for greater ease of disconnection. Will project through a cabinet door, preventing access to a set with current "on." Highly polished moulded bakelite. Shock-proof, reversible as to polarity. **List No. P.76** **2/-** EACH  
The above, without bracket, plug member to be fitted to a chassis, **List No. P.77** **1/9** each.

250 v., 5A.



### BASEBOARD 5 A. MAINS PLUG AND SOCKET

A REVERSIBLE fitting, inexpensive and popular. Standard pin spacing and diameter, bakelite insulation in both parts. Fitted with terminals and suitable for all radio apparatus. **List No. P.32** **1/6** EACH



### CHASSIS MOUNTING MAINS PLUG AND SOCKET

A REVERSIBLE mains connector of standard five-ampere two-pin specification, specially suitable for chassis fixing. Both members have insulation of moulded bakelite. Terminals for connection. This is for many an ideal mains input connector for much radio apparatus and many domestic appliances. **List No. P.19** **1/3** EACH



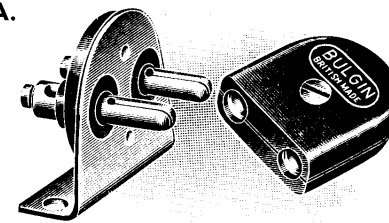
### FLAT 5-AMP. CONNECTORS

THESE useful fittings make safe and certain connections to and from mains apparatus, and are to standard 5-A. dimensions. Walnut bakelite, with flex-gripping means. Also used in pairs for removably joining flexes with safety. **List No. P.28** Plug **9D.**  
**List No. P.29** Socket **EACH**



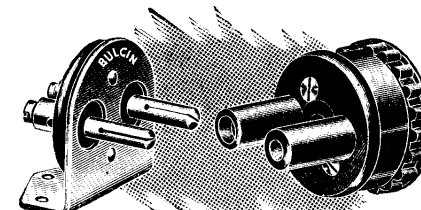
### SAFETY MAINS CONNECTOR AND FUSEHOLDER

A NEW and useful fitting with a double-pole fuseholder to accommodate 1 1/4" type fuses (see page 28). The pins and flex connector will project through a thick cabinet-back, complying with safety requirements. Walnut grained bakelite, non-reversible. **List No. P.78** (without fuses) **2/9** EACH



### SKELETONISED FLUSH MOUNTING MAINS PLUG AND SOCKET

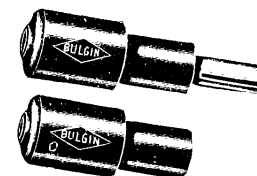
A NEW 5-A. mains connector, reversible, especially suitable for chassis type receivers. Inexpensive and efficient, and occupying the minimum of space. Pins are standard 5-A. in spacing and diameter. Fixing holes, 4 BA clear, 1 1/2" centres. Suitable for all radio and most domestic apparatus. Now fitted with soldering tags at rear. **List No. P.31** **1/3** EACH



### LARGE SAFETY MAINS PLUG AND SOCKET

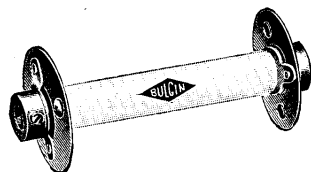
Reg. Design No. 734959

A POPULAR 5-A. connector for all mains apparatus. Bracket portion should be fixed inside set and the pins may project through holes in the door or case, to prevent opening the set until mains are off. Terminals on both parts; non-reversible. **List No. P.12** **2/-** EACH



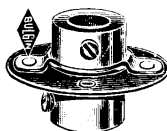
### HEAVY-DUTY SINGLE 5-A. PLUGS AND SOCKETS

USEFUL single-pole fittings of standard 5-A. dimensions. With internal terminals, black bakelite cover, and ebonite shroud. Often used for accumulators and charging boards, etc. **List No. P.44** Plug **6D.**  
**List No. P.45** Socket **EACH**

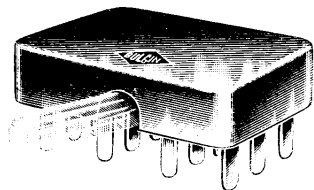


List No. E.H.12, 1" long insulator 1 9 each  
List No. E.H.14, 2 1/2" " 2 3 each

**FLEXIBLE 1/4" SHAFT COUPLINGS**  
THESE new fittings will couple all 1/4"-dia. shafts with several degrees of flexibility. The types on the left have 1" or 2 1/2" porcelain insulators, suitable for high voltage work. Special "locked" construction. With steel grub-screws.



List No. E.H.15 as above, all metal 9d. each  
List No. E.H.16 as above, insulated 1 - each

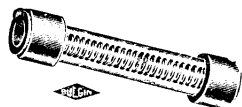


**TWELVE-POLE HIGH-VOLTAGE TELEVISION CABLE PLUG**

A NEW fitting which fully meets the requirements of high insulation where—as with television equipment—many wires must be connected at high-voltages. Moulded bakelite, with wire-grip means, and fitted twelve flat-pin contacts. Non-reversible. Six poles for 750v., six poles for 2,500 v. Tested at 7,500 v. With terminals for connection. Highly polished black bakelite, safe and shock-proof.  
**List No. P.90**

**5/9**  
EACH

**CATHODE-RAY-TUBE HEATER RESISTORS**



A NEW range of fixed resistors to carry 1.5 A. max., suitable for insertion in the heater circuit of C.R. Tubes. Glass enclosed, 1 1/2" long, with end contact caps. Fit holders F.12, and F.17 (p. 29). Accuracy,  $\pm 7.5\%$ .  
**List No. Ohms**

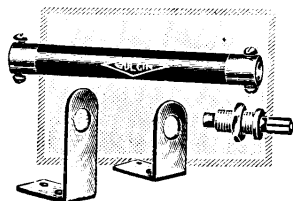
R.1.	0.8	R.5	1.2
R.2	0.9	R.6	1.3
R.3	1.0	R.7	1.4
R.4	1.1	R.8	1.5

**9D**

**9D**

each

each



Top and right, E.H.4 shaft and fittings.  
Left, E.H.6 bracket.  
Centre, E.H.5 bracket

**4" EXTENSION SHAFTS**

THESE useful accessories enable the fitting of rotary switches, types S.84, S.85, S.86 and S.110, well inside the receiver and close to particular valves, coils, etc. These shafts are of polished ebonite with polished plated fittings, 4" long overall, and are complete with panel bush.

Black Ebonite 4" switch shaft, as above described.  
**List No. E.H.4**

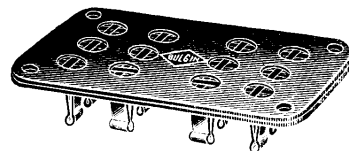
**1/6**  
each

Nickel-plated bracket for S.84, S.85 and S.86.  
**List No. E.H.5**

**3D**  
each

Nickel-plated bracket, larger, for S.110.  
**List No. E.H.6**

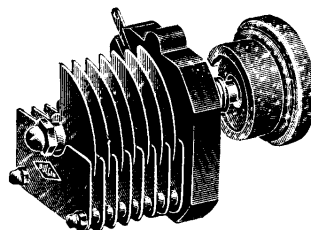
**3D**  
each



**TWELVE-POLE HIGH-VOLTAGE TELEVISION SOCKET**

THIS moulded bakelite socket is fitted with sunken phosphor-bronze resilient strip contacts provided with special integral soldering tag. Adequate insulation is provided for use at voltages of up to 2,500 in Television apparatus. For chassis fixing, safe and shockproof. Designed to co-operate with the plug shown left.  
**List No. P.91**

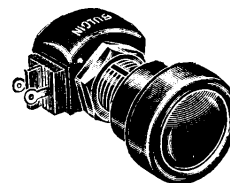
**1/9**  
EACH



**PANEL MOUNTING S.W. VARIABLE CONDENSER**

A SPECIAL type of solidly constructed one-hole fixing variable condenser with 1" dia. shaft. Max. Cap. 60  $\mu$ F., minimum below 6  $\mu$ F. With smooth movement, positive silent moving-plate connection, low-loss porcelain base, and tinned solder-tags for connection.  
**List No. S.W.106 without knob**

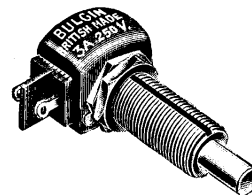
**5/9**  
EACH



**SINGLE-POLE ON-OFF QUICK MAKE AND BREAK**

A SINGLE-POLE on-off switch for radio sets and like apparatus. Roller contact and nice snap action. Rating 3 A., 250 v. max. Fully enclosed. A general purpose switch of many uses, and a most popular type. Complete with walnut-grained bakelite knob.  
**List No. S.91**

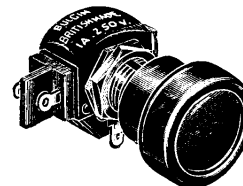
**1/9**  
EACH



**SINGLE-POLE ON-OFF Q.M.B., LONG BUSH**

SIMILAR to the type shown above, this model has a long fixing bush for panels up to 1" thick. For thick motor-boards in radio-grams, and for the sides of cabinets. Rating 3 A., 250 v. max. Fully enclosed. As illustrated, but complete with moulded walnut-grained knob.  
**List No. S.128**

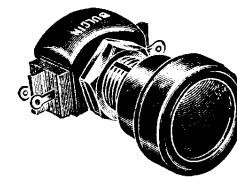
**2/-**  
EACH



**FOUR-POINT ON-OFF QUICK MAKE AND BREAK**

A USEFUL type for wave-change switching or for on-off control in battery sets fitted with vari-mu control where the bias circuit must be interrupted. This switch will interrupt H.T.—also. With walnut-grained knob.  
**List No. S.116**

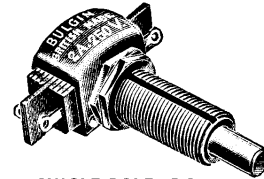
**2/3**  
EACH



**SINGLE POLE DOUBLE-THROW, QUICK MAKE AND BREAK**

A SINGLE-POLE double-throw or alternative circuit switch of many uses. It may be used for mains, for radio-gramo switching, and many other purposes. Mains rating 2 A., 250 v., or 3 A., 125 v. Complete with walnut-grained moulded bakelite knob.  
**List No. S.92**

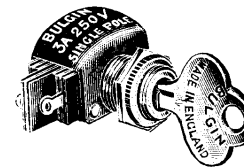
**2/-**  
EACH



**SINGLE-POLE DOUBLE-THROW, Q.M.B., LONG BUSH**

SIMILAR to the type above, but with long bush for fixing to motor-boards, cabinets, and positions where a thickness of up to 1" is met with. For all single-pole change-over switching, radio-gramo., etc. Mains rating 2 A., 250 v., or 3 A., 125 v. With walnut-grained knob.  
**List No. S.129**

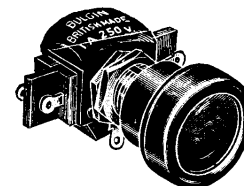
**2/3**  
EACH



**ON-OFF S.P. KEYSWITCH, QUICK MAKE AND BREAK**

A NEW addition to the range, this switch is useful for car-radio, controlling extension speakers, and all uses where unauthorised use of apparatus is to be prevented. It cannot be operated by a screwdriver. For mains, 3 A., 250 v. max. Fully enclosed. Complete with key. Bush nose highly polished.  
**List No. S.124**

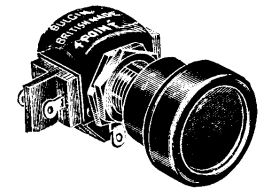
**3/-**  
EACH



**DOUBLE-POLE DOUBLE-THROW, QUICK MAKE AND BREAK**

A MOST useful switch, complying with the new requirements for many purposes of complete isolation of the mains. Also useful for radio-gramo. switching. An ideal switch for eliminator-to-charger switching, etc. Essential with D.C. mains. Fully enclosed and insulated, and complete with handsome walnut-grained moulded bakelite knob. 1 A., 250 v. max.  
**List No. S.114**

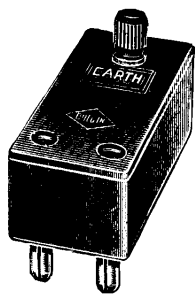
**2/9**  
EACH



**DOUBLE-POLE ON-OFF QUICK MAKE AND BREAK**

SIMILAR to our well-known toggle type, S.126, but for rotary operation, with standard one-hole fixing bush and 1" dia. shaft. An ON-OFF type essential with D.C. mains. Rating 1 A., 250 v. Complete with knob.  
**List No. S.115**

**2/6**  
EACH

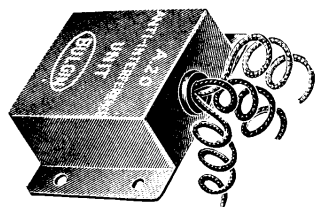


### SUPPRESSOR ADAPTOR

A MAINS plug-socket adaptor for standard two-pin five-amp. fittings, and having two internal condensers of  $0.2\mu\text{F}$ . to divert mains-carried interference, modulation hum, etc. For A.C. or D.C., 250 v. max. Fit between wall socket and apparatus plug. Earth the insulated terminal. Shock-proof and safe.

List No. P.50 EACH

WHERE mains-borne interference is sudden and discontinuous in nature, chokes may be necessary also. See below.



### ANTI-INTERFERENCE CONDENSER UNITS

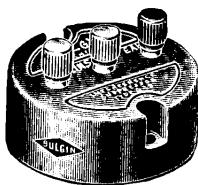
SPECIAL double condenser units to divert interference arriving via mains wiring. In frosted aluminium finished cases which may be earthed. Fitted with 6" leads; the black usually connects to earth, and is the junction of the two condensers. Uses are also given in the booklet "Radio Service Manual."

Standard type for A.C. Supplies:—  
List No. A.20  $0.1 + 0.1\mu\text{F}$  2 6 each

Standard Type for D.C. Supplies:—  
List No. A.30  $2 + 2\mu\text{F}$  6 6 each

For heavy interference A.C. Supplies:—  
List No. A.21  $0.5 + 0.5\mu\text{F}$  3 6 each

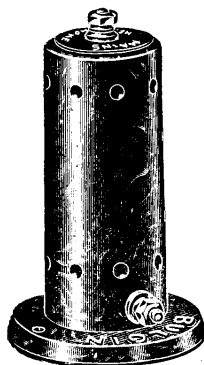
For heavy interference, D.C. Supplies:—  
List No. A.31  $4 + 4\mu\text{F}$  10 6 each



### INTERFERENCE SUPPRESSOR

AN all-insulated mains-interference suppressor for mounting inside or near set, or in any advisable position. Connections: one mains lead to each red terminal, and earth to black Internal capacities:  $0.1 + 0.1\mu\text{F}$ , 250 v., A.C. or D.C., max. Safe and shock-proof. Similar applications to P.50 (left).

List No. A.49 2/6 EACH

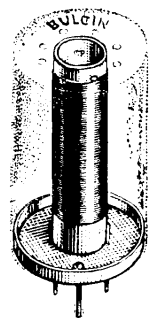


### MAINS TYPE H.F. CHOKE

A HEAVY-DUTY choke suitable for use in mains leads of eliminators and other apparatus. Wound with heavy gauge wire, will carry up to 120 mA. without undue temperature rise. Self-inductance approx.  $40,000\mu\text{H}$ . (varying with D.C.). In green bakelite case with 6 B.A. terminals, and ventilated. D.C. resistance approx. 40 ohms.

List No. H.F.5

5/- EACH



### MAINS H.F. CHOKE for Med. and Long Waves

A SCREENED and ventilated mains choke to divert H.F. currents. Solenoid winding brought to tags at base. For chassis mounting. Inductance,  $170\mu\text{H}$ . D.C.  $\Omega = 2$ , Max. current, 0.7 A.

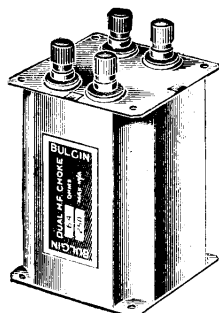
List No. H.F.16 EACH 2/9

### Short Wave Type

ANOTHER model of lower inductance, particularly suitable for use with all-mains Short-wave and Television sets. Inductance,  $75\mu\text{H}$ . D.C.  $\Omega = 0.72$ , Max. current, 1.1 A.

List No. H.F.17

2/9 EACH

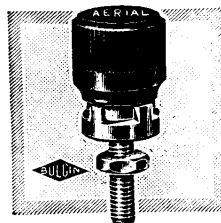


### DUAL MAINS H.F. CHOKE

A NEW screened H.F. choke for mains use. The total D.C. resistance is only 64 ohms, and this choke is specially suitable for use with "Osram" and similar D.C. valves, when it will drop approximately 16 volts at 0.25 amps. max. The inductance is of the order of  $60,000\mu\text{H}$ , varying with D.C., and the self-capacity of the order of  $1.5\mu\text{F}$  per former. This choke connects in both poles of the mains and operates without undue temperature rise. Fitted in universal mounting aluminium finished metal screening case.

List No. H.F.11

8/6 EACH



### STANDARD INSULATED TERMINALS WITH WIRE-GRIP

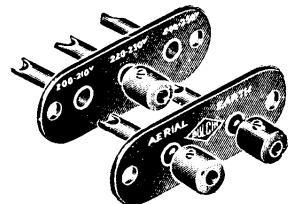
THESE terminals have moulded bakelite knobs, engraved, and not detachable except at will. When fully unscrewed the knob may be pulled off, but it will not accidentally come adrift, thus preventing confusion of markings. 4 B.A. stem with lock-nut.

Price, any type, EACH

List Ref. T.L. (+ indication)

RED: AERIAL, AERIAL 2, L.T. +, H.T. +, H.T. + 1, H.T. + 2, H.T. - 3, L.S. +, MAINS +, Plain.

BLACK: EARTH, L.T. -, H.T. -, L.S. -, PICK-UP, MAINS -, Plain.



### SOCKET STRIPS

INEXPENSIVE but effective socket strips, without wander plugs. Tinned sockets for soldered connection, bakelite insulation, available as under:—

#### 2-WAY

P.51 "AERIAL EARTH"

P.52 "FIELD"

P.53 "PICK-UP"

P.54 "SPEAKER"

P.55 "L.T. -"

P.56 "H.T. -"

P.57 "1-AERIAL-2"

#### 3-WAY

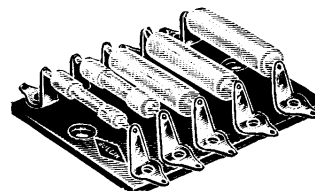
P.60 "H.T. +1 -2"

P.61 "1-AERIAL, 2-EARTH"

P.62 "200 210, 220 230, 240 250"

4 1/2 D. EACH

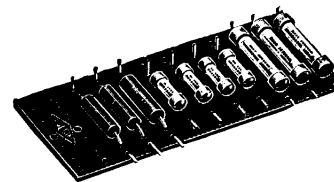
4 1/2 D. EACH



### GROUP BOARDS

A NEW and useful fitting to group together resistances and condensers, especially wire-end types in modern receivers. May be fixed to chassis or baseboard.

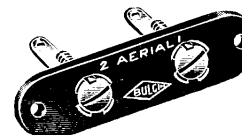
List No. C.31 5-way 9d. } EACH  
List No. C.32 10-way 1 6 }



### SKELETON GROUP BOARDS

THESE new group boards are made of cleanly stamped sheet bakelite, punched with numbers of holes so that 1/2- and 1-watt resistances and tubular condensers may be accommodated in readily accessible arrangement. May easily be cut to any length with scissors, if desired. Available in three stock sizes:—

List No. C.34 6-way ... 3d.  
List No. C.35 12-way ... 6d.  
List No. C.36 24-way ... 1 - EACH



### SKELETON CAPTIVE SCREW STRIP

A SIMPLE bakelite fitting with large head screws. Inexpensive, and useful for all modern receivers.

#### AVAILABLE INDICATIONS

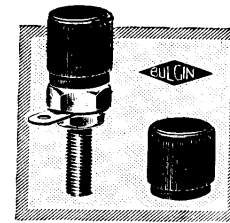
(2-way) — L.T. +, — H.T. +, — A. — E.  
1-AERIAL-2-SPEAKER, PICK-UP  
(3-way) — H.T. +1, — 2; 1-AERIAL-2-EARTH

List No. T.10 2-way 6D.  
List No. T.11 3-way EACH

#### SPECIAL TYPES

(Without Indications)

List No. T.12 6-way ... 1 -  
List No. T.14 10-way ... 1 6



### SMALL INSULATED TERMINALS, 4 B.A.

THE illustration is approximately full size. These terminals fill the want of many who seek a small inexpensive insulated type. The heads are removable and have inserts. Without indications, in two colours.

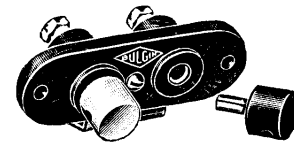
List No. T.1 RED 1 1/2  
List No. T.2 BLACK EACH

### SMALL INSULATED TERMINAL HEADS

THESE small moulded terminal heads are of best bakelite, with brass threaded inserts.

List No.	Colour	Thread
T.5	BLACK	4 B.A.
T.6	BLACK	6 B.A.
T.7	RED	4 B.A.
T.8	RED	6 B.A.

PRICE 1/- PER DOZ.



### TWIN PLUG STRIP

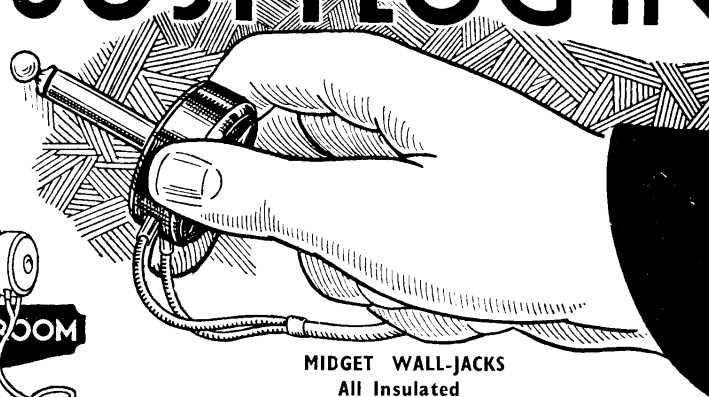
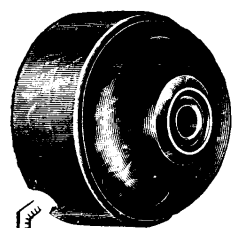
A SMALL bakelite moulding fitted with two recessed sockets, terminals at rear, complete with two wander plugs. For chassis mounting or baseboard, a bracket being supplied. This is a type which appeals to amateurs and experimenters, as well as to manufacturers, for it is quickly fixed in hook-ups, and can be used over and over again.

#### AVAILABLE INDICATIONS

AERIAL EARTH, FIELD, PICK-UP, SPEAKER. 9D.  
List No. P.30 (Please state marking required) WITH TWO PLUGS



# JUST PLUG IN

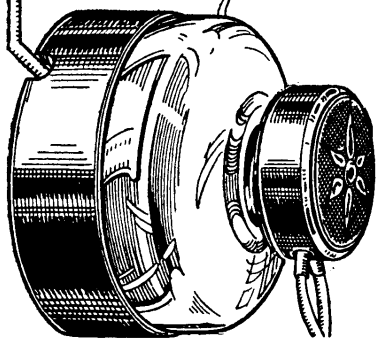


**DINING ROOM**

**DRAWING ROOM**

**BED ROOM**

**KITCHEN**



## MIDGET WALL-JACKS All Insulated

FEW special and unique components have enjoyed such deserved popularity as BULGIN Wall-Jacks. They are one of the ideal types of component for plug-and-socket fitting in loud-speaker and headphone extensions. This low-priced midget type embodies all the well-known features for parallel-wiring systems and is most inexpensive. Moulded bakelite, highly polished, with terminals beneath cover.

List No.	Finish or Graining.	Price
W.J. 1,	Walnut	<b>1/6</b> EACH
W.J. 2,	Mahogany	
W.J. 13,	Black	
W.J. 14,	Brown	

Terminals and "knock-outs" for wiring are standard on all types. R.C.M.F. rating is 25 watts max. output.

## JUNIOR WALL-JACKS All Insulated

A LITTLE larger in size than the Midget types above these "Junior" moulded bakelite models are robust in use and provide a similar means of making reliable and unfailing double-pole connection between plug and socket for loud-speaker and headphone installations in home, institution, and hospital alike. For parallel wiring of extension points. With polished nickel-plated cover enclosing terminals, and 'knock-outs' to accommodate wiring.

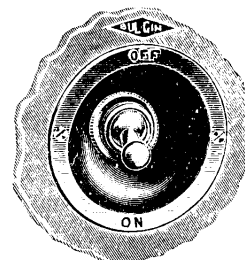
List No.	Finish or Graining	Price
W.J. 8,	Black	<b>2/-</b> EACH
W.J. 9,	Brown	
W.J. 10,	Walnut	
W.J. 11,	Mahogany	

R.C.M.F. rating is 25 watts max. output.

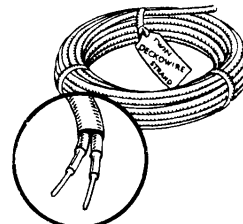
JACK-PLUGS	Price
List No. P. 15, Black	<b>1/6</b> EACH
List No. P. 16, Brown	
List No. P. 23, Walnut	
List No. P. 24, Mahogany	

SMALL JACK-PLUGS,	Price
as illustrated on page 33 in black bakelite.	<b>1/3</b> EACH
List No. P. 38	

## ACCESSORIES



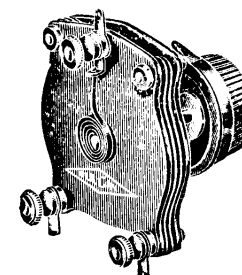
**ESCUTCHEON PLATES FOR TOGGLE SWITCHES**  
FOR all BULGIN TOGGLE SWITCHES; with "ON-OFF" embossed, and finished in Florentine bronze. Useful for fitting switches where panels or cabinets exceed  $\frac{3}{32}$ " thickness. **3D.**  
List No. E.2 EACH



**"DECKOWYRE" 2-STRAND**  
THE ideal wire for loud-speaker extensions and similar uses. Specially made for indoor use, this wire is laid flat to minimise capacity, is heavily insulated, and paraffin waxed against damp. Neutral grey colour, and braided as one. 50' coil **3/9** 100' coil **6/9**

**3-STRAND**  
WHERE three wires have to be extended, such as certain loud-speaker extensions, or two live wires and earth, there is no better cable for 80 v. max. working than this 3-core "Deckowyre." Adequate insulation. 50' coil **4/9** 100' coil **8/6**

**4-STRAND**  
FOR four-wire extensions where remote controls and extension loud-speaker points are installed, this 4-core "Deckowyre" cannot be bettered. It is heavily insulated, has a neutral grey colour for the outer braiding, and may be used in all indoor positions. 50' coil **5/6** 100' coil **10/6**



## BAKELITE DIFFERENTIAL CONDENSERS

THESE condensers occupy the minimum of space, a valuable feature with most modern sets. The dielectric is of the finest quality bakelised paper, and cannot tear under any circumstances, and the condenser cannot therefore short. The bearings are massive and there is no "shake". The rotor connection is positive, and terminals as well as tags are fitted.

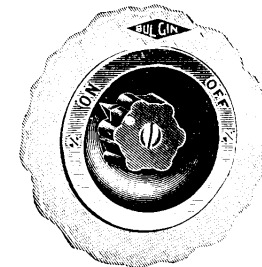
List No.	Capacity	Price
N.21	2 x 0.0001 $\mu$ F.	<b>2/6</b> EACH
N.23	2 x 0.0002 "	
N.24	2 x 0.0003 "	



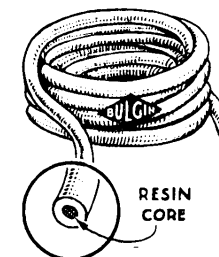
## SCREENED FLEX-WIRE

SCREENED wiring is very essential in modern sets. It is not always satisfactory to use stiff screened wire, especially for leads to valves. This flexible screened wire has a 14/36 S.W.G. core, heavily insulated with rubber, and with a braided outer screen of tinned copper wires. **6D.**  
List No. W.5.2 Per 3' coil  
Per 15' coil, **2/3** Per 30' coil, **4/6**

**ADJUSTABLE PANEL BRACKETS**  
WE can still supply our well-known cast-aluminium, adjustable angle, panel brackets. Rigid and yet easily fixed at any angle. **1/6**  
List No. P.B.2 PER PAIR



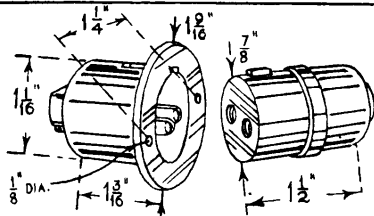
**ESCUTCHEON PLATES FOR ROTARY SWITCHES**  
MADE for the S.84, S.85, S.86 and S.85 K switches. Finished in Florentine Bronze. "ON" "OFF" clearly embossed. With screws. **3D.**  
List No. E.3 EACH



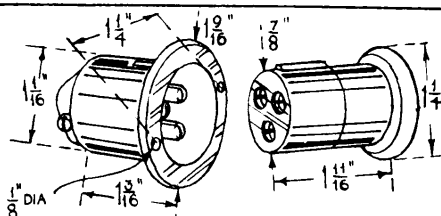
## RESIN-CORE SOLDER

Standard quality  
IN modern radio apparatus it is most important to use soldering flux which is absolutely non-corrosive, or insulation breakdown and corroded joints will give endless trouble. This solder with flux-core makes good electrical joints which flow easily, but it cannot corrode. Just the right amount of flux is applied automatically at the time of making the joint, while the soldering iron will keep clean and not "pit." **8D.**  
List No. T.F.2 PER 6' coil EACH

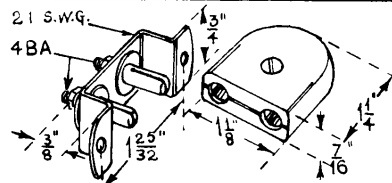
**SUPER QUALITY**  
THIS resinous-cored solder flows a little more readily, and its internal core of flux is better for fine or untinned wires or wiring. For coil connections it should always be used. It is of smaller outside diameter and suited to small joints. **1/-**  
List No. T.F.3 PER 6' coil EACH

**MAINS CONNECTORS**


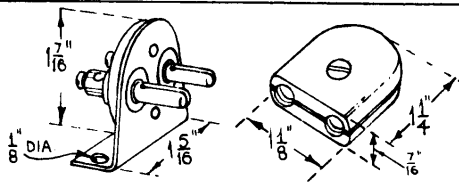
P20, MAINS PLUG & SOCKET. STANDARD R.C.M.F. 3A.250V. FITTED WITH CORD GRIPS AND FULLY SHROUDED. NON-REVERSIBLE. ANY COLOUR OR GRAIN OF BAKELITE.



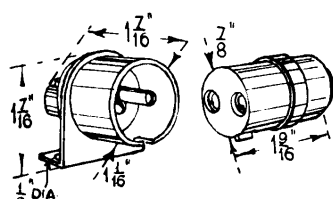
P73, MAINS PLUG & SOCKET, THREE-POLE TO INCLUDE EARTHING. NON-REVERSIBLE. LARGE HEAD OF FLEX-MEMBER WILL 'LOCK' TO A CABINET BACK. ANY BAKELITE/COLOUR GRAIN.



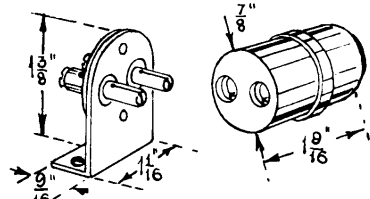
P31, MAINS PLUG & SOCKET 5A.250V. REVERSIBLE; FOR CHASSIS MOUNTING. FLEX MEMBER FULLY SHROUDED. AND WITH INTERNAL SOCKETS REMOVABLE. ANY COLOUR OR GRAIN OF BAKELITE.



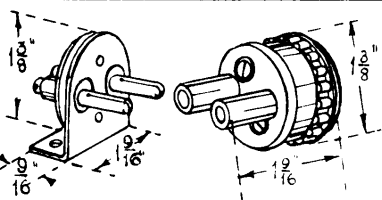
P32, MAINS PLUG & SOCKET 5A.250V. REVERSIBLE, FOR BASEBOARD MOUNTING. ALSO SUPPLIED WITHOUT BRACKET FOR CHASSIS MOUNTING. FLEX-MEMBER AS FOR P31. ANY COLOUR OR GRAIN OF BAKELITE.



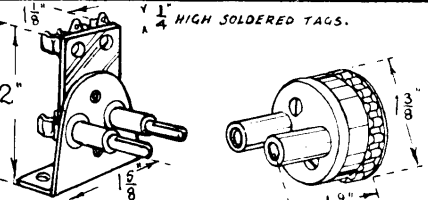
P21, MAINS PLUG & SOCKET. STANDARD R.C.M.F. 3A.250V. MAX. FITTED WITH CORD GRIPS IN FLEX MEMBER, FULLY SHROUDED AND SHOCK-PROOF. NON-REVERSIBLE. ANY COLOUR OR GRAIN OF BAKELITE.



P33, MAINS PLUG & SOCKET. STANDARD R.C.M.F. 3A.250V. MAX. CORD GRIPS IN FLEX MEMBER. REVERSIBLE. ALSO SUPPLIED WITHOUT BRACKET. ANY COLOUR OR GRAIN OF BAKELITE.

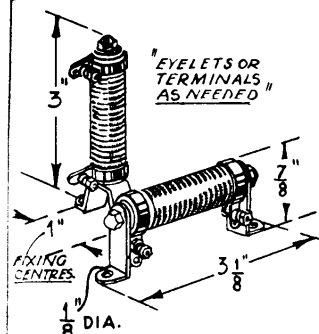


P12, MAINS PLUG & SOCKET 5A.250V. NON-REVERSIBLE. FITTED WITH ONE LARGE AND ONE SMALL PIN. FLEX MEMBER FULLY SHROUDED. ALSO SUPPLIED WITHOUT BRACKET FOR CHASSIS MOUNTING. ANY COLOUR OR GRAIN.

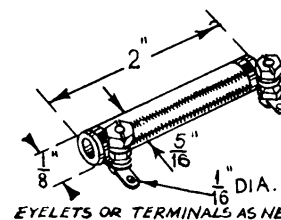


P78, 5A.250V. MAX. NON-REVERSIBLE MAINS-CONNECTOR. FITTED ONE LARGE & ONE SMALL PIN. FLEX MEMBER WILL 'LOCK' TO A CABINET BACK. THE FUSE-HOLDER TAKES D.P. FUSES. STANDARD 1 1/4" REPLACEABLE TYPE (BS. 646).

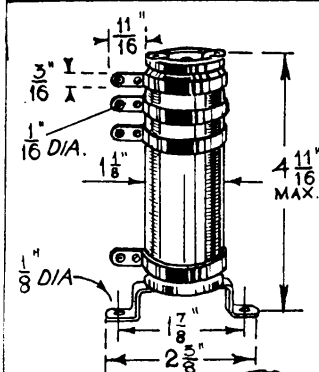
PRICES ON APPLICATION TO A.F.BULGIN & CO. LTD. ABBEY RD. BARKING.

**WIRE WOUND RESISTANCES.**

**20 WATT POWER RESISTORS**

THE 'BEST' NON-FERROUS NICKEL-CHROME WIRE ONLY IS USED, WITH OXYDISED SURFACE, AND THIS IS SPIRALLED ON TO ENAMELLED COPPER, DOUBLE LAPPED WITH ASBESTOS, THE WHOLE BEING SPECIALLY TREATED. 50Ω AT 632 M.A. TO 50,000Ω AT 20 M.A. IN ALL USUAL VALUES TO ± 10%, OR ± 5% TO ORDER. SPECIAL ADJUSTMENT CAN BE MADE TO ± 1% FOR VERTICAL TYPE ADD 'V' TO LIST NO. OTHER VALUES TO ORDER.


**10 WATT POWER RESISTORS**

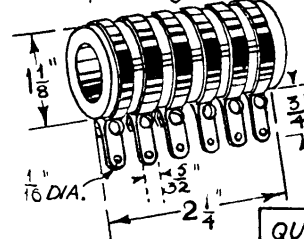
SOLENOID WOUND WITH FINEST NON-FERROUS NICKEL ALLOY OXYDISED WIRE ON ASBESTOS COMPOUND TUBES. MAX. HEAT GENERATED = 36 B.T.H.U. PER HOUR. CONTACT BANDS ARE NORMALLY FIXED. MOVABLE BANDS CAN BE SUPPLIED, NORMAL ACCURACY ± 5%. FROM 1Ω TO 5,000Ω.


**SIXTY-WATT**

RESISTANCE MADE FOR ALL TYPES OF A.C./D.C. VALVES AND FOR SPECIAL PURPOSES. ASBESTOS OR PORCELAIN FORMERS, WITH TAPPING BANDS CLAMPED TO FORMER OR OVER WINDING. CONSTANT -Ω NI/CU WIRE WITH OXYDISED SURFACE IS USED, OR N/Cr TO ORDER. NORMAL ACCURACY ± 5%Ω, OR AS REQUIRED.

**WE CAN MAKE**

ANY TYPE OF RESISTANCE TO ORDER, FROM THE TYPES SHOWN UP TO KILOWATTS RATING. MANUFACTURERS ARE INVITED TO AVAIL THEMSELVES OF OUR WIDE AND EXTENSIVE EXPERIENCE, AND WE SHALL BE PLEASED TO CO-OPERATE CONFIDENTIALLY.


**WE HAVE SUPPLIED**

INNUMERABLE TYPES OF SPECIAL POWER RESISTANCES. WE WORK TO AN AMPLE SAFETY FACTOR WITHOUT UNNECESSARY EXPENSE & SIZE. ALL RESISTANCES HAVE 'LONG LIFE'; 'LACK OF RETURNS' ENABLES US TO QUOTE LOW PRICES.

QUOTATIONS FREELY GIVEN ON REQUEST.