



S.A.475, Plug:

left

The pair, List No: P.21

S.A.1988, Socket

right

P.21 Above and P.20 below, polarised, non-reversibility is given by male key upon socket, mating with a cup-shaped slot in the side of the plug.



S.A.468, Plug
left

The pair, List No: P.20

S.A.472, Socket
right

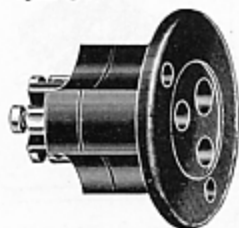
S.A.1334
Plug



The pair, List No. P.200 (with S.A.1334)
List No. P.260 (with S.A.1526)

S.A.1334
or
S.A.1526
socket

Above, SOCKET assembles through cabinet-back, conferring polarised non-reversibility and safety, by automatic disconnections upon opening cabinet.



S.A.2020, Socket
left

The pair, List No: P.437

S.A. 2019, Plug

right

P.437 above and P.438 below are FACILITY OUTLETS, not Inlets. Accordingly it is the SOCKET or 'live' half and not the PLUG that is fixed, or apparatus, member.



S.A.2026, Socket
left

The pair, List No: P.438



S.A.2025, Plug
right

2-Pole Inlets, Polarised; 3-Pole 'Facility Outlets'

Further Mains Connectors for a wide field of applications. The INLETS are all 2-pole types, for use where Earthing is not required, or is carried out separately. Mouldings are in glossy phenolic, highly polished, normally BLACK. As with most other Bulgin products, however, other colours can be moulded to quantity order, if previously agreed. Pins and Sockets are non-ferrous, highly Nickel-plated, and 6 BA. terminals are fitted to both members in all the INLETS (excepting the PLUG of P.200.) With these Connectors, mains-leads can be disconnected from apparatus, and interchanged. Uses extend from Professional and Domestic to Laboratory, Industrial, etc.

The FACILITY OUTLETS shown lower left allow 2-poles and Earth out of apparatus in subsidiary or auxiliary manner e.g., mains to dependant-unit and sub-unit, or to gram-motor, or similar. P.437, 6 BA. terminals to both members; P.438 connections are soldered to either member. Mouldings are glossy phenolic, normally BLACK. Arrangements may be made for mouldings in colour upon enquiry. Pins and Sockets are highly plated.

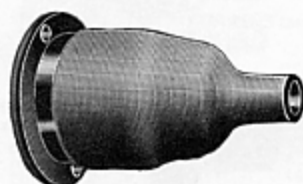
2/9

4/6

1/9

List No.		Amps at V:			Dimensions (Proj: is from front face of panel)
Pair	Members	6	250	500	
P.200 2-Pole	S.A.1344 Plug	7 ±	5 ~	1 ~	2×4 BA. Clear at 1½" 38.1 mm. crs., with central aperture 1" 25.4 mm. X ½" 25.9 mm. to clear polar parts. Solder-tag connections
	S.A.1334 Socket				2× ¾" 7.9 mm. Ø holes at 1½" 33.3 mm. crs., with central hole ½" 23.8 mm. Ø Max. panel thickness: ½" 3.2 mm. Terminal connections
P.260 2-Pole	S.A.1344 Plug	7 ±	5 ~	1 ~	As above
	S.A.1526 Socket				As above, but Solder-tags not terminals
P.20 2-Pole	S.A.468 Plug	7 ±	5 ~	1 ~	Proj to front 1½" 25.8 mm., to rear: 1½" 28.2 mm., O.A. Ø 1½" 41.3 mm. Panel hole: 1½" 27 mm. Ø Fixing holes: 2×6 BA. 3.3 mm. Clear at 1½" 32.5 mm. crs., Max. panel: Unlimited. Terminal connections.
	S.A.472 Socket				
P.21 2-Pole	S.A.475 Plug	7 ±	5 ~	1 ~	2½" 62.3 mm. long × 1½" 38.1 mm. wide. Max. Ø 1½" 34.9 mm. fixed by bracket ¾" 20.6 mm. off centre. 2×6 BA. 3.3 mm. clear holes at ¾" 19.8 mm. crs. Terminal connections.
	S.A.1988 Socket				
P.437 3-Pole	S.A.2019 Plug	6-12 ~	250 ~	250 ~	Proj to front 1½" 30.2 mm. to rear: 1½" 32.5 mm. O.A. Ø 1½" 39.7 mm. Panel hole: 1½" 27.0 mm. clearing Fixing holes: 2×6 BA. 2.8 mm. clear at 1½" 32.5 mm. crs. Max. panel: Unlimited Terminal connections.
	S.A.2020 Socket				
P.438 3-Pole	S.A.2025 Plug††	3 ~	1.5 ~	0.5 ~	Proj to front 1½" 48.8 mm. to rear: 1½" 20.6 mm., including sleeve. O.A. Ø 1½" 23.8 mm. Panel hole: ¾" 19.1 mm. Ø clearing + keyway ½" 3.2 mm. wide × ½" 0.8 mm. deep. Fixing holes: see panel hole. Max. panel: ¾" 4.8 mm. Solder tags.
	S.A.2026 Socket				

Accessories for Standard Mains-Connectors Ideal for use with P.437 and P.21 shown on these pages and the panel mounting Mains-inlet plugs of the standard size 3—5 Amp. connectors on pages 112-113. The terminals, tags, and the wiring connections are covered using this flexible moulded cover, Part No: 8878 which confers an extra degree of safety against inadvertent contact inside apparatus.

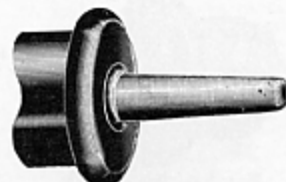


Part No: 8878,
Plug-COVER, normally BLACK

Plug-Cover, Part No: 8878

Can fit on:—P.437/Sk., P.340, P.350, P.73, P.73/SE., P.73/RT, P.73/RS., P.73/SE./RT., P.74, P.74/RT, P.20.

The standard Connectors can also have a flexible grip-sleeve added to their Sockets or Flex-Members, ask for Part No: 8037.



Part No: 8037,
Cable-SLEEVE, normally BLACK

Socket-Sleeve Part No: 8037

Can fit on:—P.437/Pl, P.340, P.350, P.73, P.73/BB., P.73/RT., P.73/RS., P.74, P.74/RT., P.74/BB., P.161, P.162, P.166, P.18., P.21.

* For separation or de-mating whilst loaded; otherwise 3A. Not for 500V.
† For separation or de-mating whilst loaded; otherwise 1.5A. Not for 500V.
†† Supplied complete with cable sleeve.



Plug: P.429



Socket: P.430



Socket: P.430/SE.

To obtain P.429 and P.430 together, Order P.360
To obtain P.429 and P.430/SE together, Order P.360/SE



Plug: P.427

List No:
The Pair P.194



Socket: P.428



Socket: S.A. 2368

List No:
The Pair P.560



Plug: S.A. 2367

These Polarised 3, 4 and 6-pole Connectors are principally intended for Mains-Inlet Connections and accept cables up to 14/36" flex., or 18 S.W.G. The resilient sockets are protected and maintain their grip to the plug-pins, for sure and low-resistance contact. Strain-Relief for various sizes of Flex is given by a resilient plastic "bung", fitted internally to the flex-member. In addition the cable-sleeve can be drawn over the flex to minimise strain due to any sharp bending (axial cable-exit members only). Protection against accidental contact is given by ordering the flexible-cover accessory, Part No. 9555. All models are fully non-reversible with coded poles with contact and solderable parts heavily SILVER plated.

Side Entry Plugs and Sockets, 5 Amp.



Plug: S.A. 2096

List No:
The Pair P.493



Socket: S.A. 2097



Plug: S.A. 1861

List No:
The Pair P.73/SE



Socket: S.A. 2111



Plug: S.A. 2341

List No:
The Pair P.545



Socket: S.A. 2111

AMP. type female push-on connectors for S.A.2341 can be supplied if requested.

These models have side-entry for the cable on the flex-member and approved clamping for cable-grip. They are of the latest design, having conformity with modern specifications. One-piece electrodes (terminals integral with pins or sockets) that float, resilient sockets with solid pins wherever possible, and screws concealed whilst mated, for greatest safety, and highest ratings. Mouldings are of high grade phenolics, polished in appearance Connector P.493 (approved by G.P.O. and many Authorities, here and Overseas) also has versions with retention-lock and neon-glow. ("It glows whilst live") These are additional variations by means of different SOCKETS. (The PLUG remains common to all three versions). P.73/Side Entry mates with other P.73 versions; note the newest PLUG in this range fully cross mating, with AMP-type male tags.

Plugs and Sockets 3, 4 & 6 Pole

TECHNICAL DATA AND DIMENSIONS

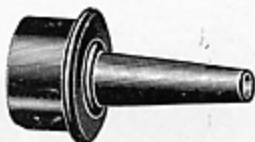
BULGIN

3 and 6 pole Accessories for Miniature Mains Connector



Part No: 9455

Plug-COVER, normally BLACK. Can fit on:—P.360., P.360/SE., P.194. These Miniature Connectors can also have a flexible grip-sleeve added to their Sockets or Flex-Members, ask for Part No: 8819.



Part No: 8819

Cable-Sleeve normally BLACK. Can fit on:—P.20., P.21., P.437., P.73., P.74., P.340., P.350., P.73/BB., P.74/BB., P.73/SE., P.493., P.493/C.R., P.161., P.162., P.166., P.360., P.360/SE.

List No.		Amp. rating per pole at V.			Dimensions ("Proj." from Front of Panel)
Pair	Members	6	110	250	
P.360 3 pole	P.429 Plug	3	2	1.5	Proj: 1 1/4" 43.7 mm. (To Rear: 3/4" 19.1 mm. O.A. @ 1" 25.4 mm. Panel Hole: 3/4" 19.1 mm. @ clear & keyway 1/4" 3.2 mm. min. wide x 1/32" 0.8 mm. min. deep. Max. Panel: 1/4" 6.4 mm.
	P.430 Socket	3	2	1.5	
P.360/SE. 3 pole	P.429 Plug	3	2	1.5	Proj: 3/4" 15.5 mm. To Rear: 1/4" 19.1 mm. O.A. @ 1 1/4" 27 mm. Panel Hole: As P.360 Max Panel: 1/4" 6.4 mm.
	P.430/SE. Socket	3	2	1.5	
P.194 6 pole	P.427 Plug	3	2	1.5	Proj: 1 1/4" 44.5 mm. To Rear: 1 1/4" 31.4 mm. O.A. @ 1" 25.4 mm. Panel Hole: As P.360 Max panel: 1/32" 3.4 mm.
	P.428 Socket	3	2	1.5	
P.560 4 pole	S.A. 2367 Plug	4	3	2	Proj: 4/16" 17.6 mm. To Rear: 1" 25.4 mm. O.A. @ 1" 25.4 mm. Panel Hole: 1/4" 19.1 mm. @ clear and keyway. 100" 2.55 mm. Deep x .050" 1.27 mm. rad. Max. Panel: 1/32" 7.1 mm.
	S.A. 2368 Socket	4	3	2	

N.B.—110 and 250 V. D.C. rating subject to not being de-mated whilst loaded.

Side Entry Plugs and sockets, 5 Amp.

MODELS WITH TERMINALS TO BOTH MEMBERS

List No.		Amps. at Volts:-				Dimensions ("Proj." from Front of Panel)
Pair	Members	6	110	250	500	
P.73/SE. 3-pole	S.A.1861 Plug§	7	6	5	1	Proj: 1 1/4" 24.2 mm. To Rear: 1 1/4" 28.2 mm. O.A. @ 1 1/4" 39.7 mm. Panel Hole: 1 1/4" 27 mm. clear. Fixing holes: 2 x 6 BA. @ 1 1/4" 32.1 mm. crs
	S.A. 2111 Socket	7	6	5	1	
P.73/SE./R.T.† 3-pole	S.A.2190 Plug†§	7	6	5	1	Proj: 1 1/4" 24.2 mm. To Rear: 1 1/4" 33.3 mm. O.A. @ 1 1/4" 39.7 mm. Panel Hole: 1 1/4" 27 mm. clear. Fixing holes. 2 x 6 BA. @ 1 1/4" 32.1 mm. crs
	S.A.2111 Socket	7	6	5	1	
P.493†† 3-pole	S.A.2096 Plug§	5	5	5	1	Proj: 1 1/4" 24.2 mm. To Rear: 1 1/4" 36.7 mm. O.A. @ 1 1/4" 40.5 mm. Panel hole: 1 1/4" 27 mm. clear. Fixing holes: 2 x 6 BA. @ 1 1/4" 32.1 mm. crs. csk. 7/32" 5.6 mm. @ 90°
	S.A.2097 Socket	5	5	5	1	

MODEL WITH TERMINALS for SOCKET and TAGS
ACCEPTING series 250 'AMP' Connectors to Plug

P.545 3-pole	S.A.2341 Plug§	7	6	5	1	Proj: 1 1/4" 24.2 mm. To Rear: 1 1/4" 31.7 mm. O.A. 1 3/4" 45.2 mm. x 1 1/4" 39.7 mm. Panel Hole: 1 1/4" 27.0 mm. Fixing Holes: 2 1/4" 3.7 mm. @ csk. 1/4" 6.0 mm. @ 90°, @ 1 1/4" 31.8 mm.
	S.A.2111 Socket	7	6	5	1	

* PLUG is fixable member in ALL these connectors

† Plug member only has tags.

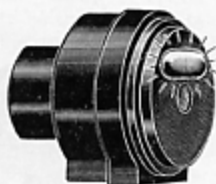
†† These do not cross-mate into members of other pairs.

§ Member with Pins



List No: P.493/Clip Retainer

A supplementary device to fix between plug-flange and panel (using same bolts) to provide a lock against accidental de-mating



SA.2097/Neon Socket

As SA.2097 but with warning neon. Available RED or Water Clear Glow for 110V. or 250V. Please state voltage and colour when ordering.



SA. 1861. Plug with
Slit Pins left



The Pair
List No. P.73

SA. 1862 with Solid
Sockets right



SA. 468. Plug with
Slit Pins left



The Pair
List No. P.74

SA. 1988 with Solid
Sockets right



SA. 1403. Plug with
Solid Pins left



The Pair
List No. P.340

SA. 1393 with Slit
Sockets right



SA. 1383. Plug with
Solid Pins left



The Pair
List No. P.350

SA. 1373 with Slit
Sockets right

Famous Bulgin Mains Inlet Connectors, original and pioneered, for connecting and disconnecting the Mains-Lead at the Apparatus or Appliance itself. Widely used Domestically, and Professionally for Power and Lighting, and in Laboratories, especially where alternative portable apparatus is used selectively with common Mains-Lead, often made up as Laboratory fittings of differing lengths. All models are glossy moulded in highest commercial grades of phenolic material, and normal stock colour is BLACK. All metal parts are highly nickel-plated. In general, models have solid, tubular SOCKETS (in SOCKET-members), and slit-PINS (in PLUG-members), and terminals with 6 BA. pinch screws. Models with resilient-SOCKETS (and Solid-PINS) not for cross-mating, are now also listed, with solder-tag connections. Note, however, SA.1861-PLUG is also available with rear Tags. ORDER as SA.2190-PLUG (+SA.1862=P.73/RT) and SA.468-PLUG with rear tags becomes SA.2221 (+SA.1988=P.74/RT). Axial-entry Sockets predominate, generally being preferred by Users, but side-entry models (with clamp-bar cable-grip) are equally suitable in many cases and often essential; they are illustrated on pages 110-111. All models have high current ratings, based on separation whilst carrying; as carrying-ratings the figures may be much higher.

Plugs and Sockets, 5 Amp. TECHNICAL DATA AND DIMENSIONS

BULGIN

MODELS WITH TERMINALS TO BOTH MEMBERS

List No.		Amps. at Volts:-				Dimensions (Proj.† from Front of panel)
Pair	Members	6	110	250	500	
P.74† 2-pole	S.A.468† Plug ‡	7	6	5	1	Proj: 1 1/4" 27 mm. To Rear: 1 1/4" 28-2 mm. O.A. ∅: 1 1/4" 39-7 mm. Panel hole: * 1 1/4" 27 mm. clear. Fixing holes: 2 × 6 BA. @ 1 1/4" 32-5 mm. crs.
	S.A.1988 Socket	~	~	~	~	
P.73 3-pole	S.A.1861 Plug ‡	7	6	5	1	Proj: 1 1/4" 27 mm. To Rear: 1 1/4" 28-2 mm. O.A. ∅: 1 1/4" 39-7 mm. Panel hole: * 1 1/4" 27 mm. clear. Fixing holes: 2 × 6 BA. @ 1 1/4" 32-1 crs.
	S.A.1862 Socket	~	~	~	~	
P.73/RT. † 3-pole	S.A.2190 Plug ‡	7	6	5	1	Proj: 1 1/4" 27 mm. To Rear: 1 1/4" 33-3 mm. O.A. ∅: 1 1/4" 39-7 mm. Panel hole: * 1 1/4" 27 mm. clear. Fixing holes: 2 × 6 BA. @ 1 1/4" 32-1 mm. crs.
	S.A.1862 Socket	~	~	~	~	
P.73/B.B. 3-pole	S.A.2042 Plug ‡	7	6	5	1	Proj: 2 3/4" 60-7 mm. To Rear: Nil. O.A. ∅: 1 1/4" 48-8 mm. Panel hole: * None. Fixing holes: 2 × 4 BA. @ 1 1/4" 38-9 mm. crs.
	S.A.1862 Socket	~	~	~	~	
P.74/B.B. 2-pole	S.A.2041 Plug ‡	7	6	5	1	Dimensions as P.73/B.B.
	S.A.1988 Socket	~	~	~	~	

P.73/B.B. can be supplied with Side-Entry. — S.A.2042 + S.A.2111
P.73/B.B. and P.74/B.B. plug* has two knockouts at each side of base 180°
apart for cable acceptance

For side entry versions P.73/S.E. and P.73/S.E./Rt. see pages 110-111

MODELS WITH TAGS TO BOTH MEMBERS

P.350† 2-pole	S.A.1383 Plug ‡	6	4	3	1	Proj: 3/4" 22-6 mm. To Rear: 3/4" 24-2 mm. O.A. ∅: 1 1/4" 39-7 mm. Panel hole: * 1 1/4" 27 mm. clear. Fixing holes: 2 × 6 BA. @ 1 1/4" 32-5 mm. crs.
	S.A.1373 Socket	~	~	~	~	
P.340† 3-pole	S.A.1403 Plug ‡	6	4	3	1	Proj: 3/4" 23-0 mm. To Rear: 1 1/4" 28-2 mm. O.A. ∅: 1 1/4" 39-7 mm. Panel hole: * 1 1/4" 27 mm. clear. Fixing holes: 2 × 6 BA. @ 1 1/4" 32-5 mm. crs.
	S.A.1393 Socket	~	~	~	~	

†† These DO NOT cross-mate into members of other pairs

† Plug-member only has tags

All other members have 6 BA. Terminals

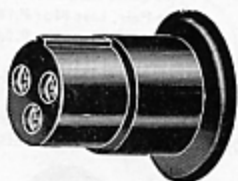
* PLUG is fixable member in ALL these connectors

‡ Member with Pins

† Also available with REAR TAGS, plug No. becomes S.A.2221
complete item P.74/RT.



SA. 2042. Plug with
Slit Pins



S.A. 1862 Socket with
solid Sockets.

The Pair List No.
P.73/BB. (P.74/BB
similar, but with 2
pins. Plug: S.A.2041.
Socket: S.A. 1988.)

Accessories Listed on page 109

In general, these proved, tried, and tested Plug and Socket Connectors have slit pins with solid tubular sockets. Terminals or Solder tags are variously available, as listed. Inter-fit is widely possible, and is indicated where practicable. Some models have slit sockets, and solid pins, to prevent unauthorised 'adjustment.' Slit-pin PLUGS can mate with appropriate Slit-socket SOCKETS but solid-pin and socket items will not mate.

Modern and future trends are towards solid-pins, resilient-sockets, for new designs, with one-piece (integral tag or terminal) metal-parts, and many such new designs are now shown in this section of this Catalogue.