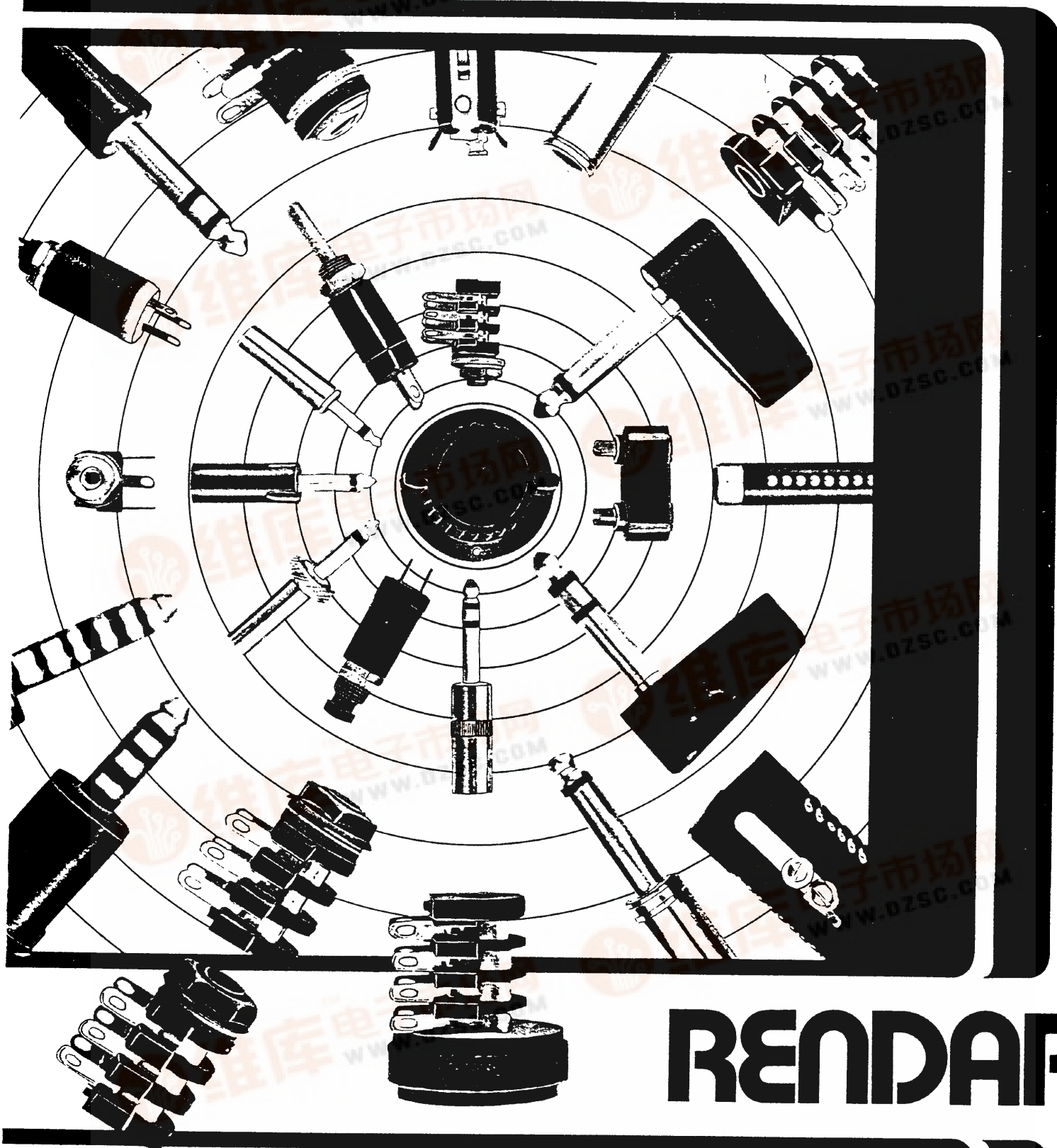


# AUDIO COMPONENTS



# RENDAR

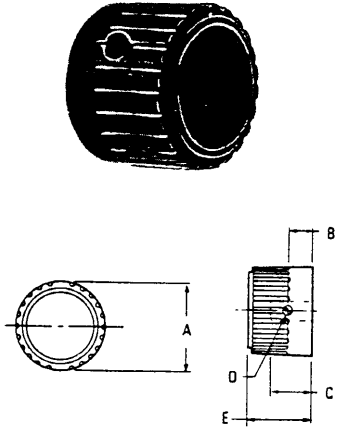
RENDAR LIMITED,  
AWK Group Company,  
Durban Road, South Bersted,  
Bognor Regis, West Sussex.

# CONTROL KNOBS

All Rendar Control knobs are moulded in a scratch resistant, black, thermoplastic (Phenolic/Melamine) with a metallic bush tapped to receive a grub screw fixing. All control knobs have a shaft size of  $\frac{1}{4}$ " in diameter

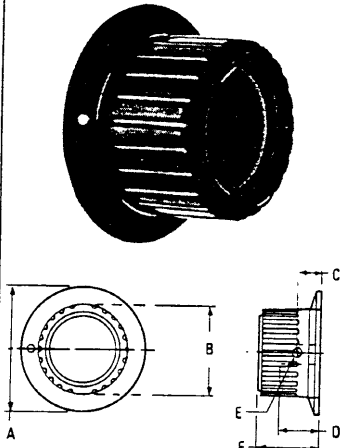
## Plain — K Series

Modern styling to meet the requirements of the design engineer and still be functional for the user.



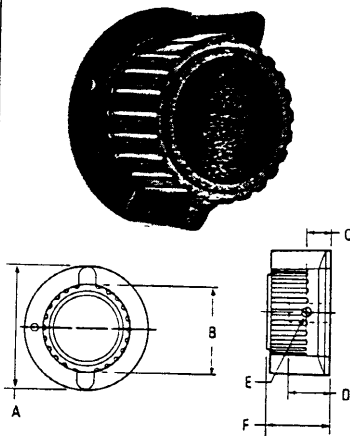
## Skirted — KS Series

A skirted knob series based on the same design as the Rendar K Series plain knobs.



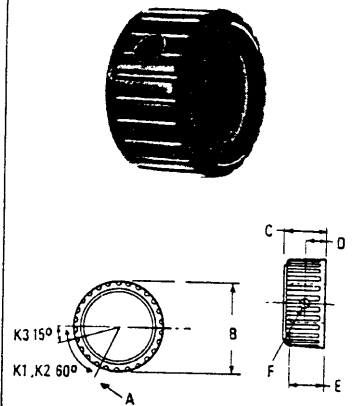
## Winged and Skirted — KWS Series

A winged and skirted design of knob based on the Rendar K Series plain knobs.



## Slimline — KSL Series

The Slimline series have a low profile suitable for smaller components and units, but are similar in general design to the basic K Series knobs.



## Specifications

	K1		K2		K3	
	mm	in	mm	in	mm	in
A	14.0	0.55	21.1	0.83	29.5	1.16
B	5.7	0.22	7.4	0.29	7.7	0.30
C	12.7	0.500	12.7	0.500	12.7	0.500
D	6BA Screw	4BA Screw	4BA Screw	4BA Screw	4BA Screw	4BA Screw
E	15.2	0.60	15.2	0.60	20.3	0.80

C Dimension — Max. shaft length.

	K1		K2		K3	
	mm	in	mm	in	mm	in
A	19.1	0.75	28.2	1.11	41.9	1.65
B	14.0	0.55	21.1	0.83	29.5	1.16
C	5.7	0.22	7.4	0.29	7.7	0.30
D	12.7	0.500	12.7	0.500	12.7	0.500
E	6BA Screw	4BA Screw	4BA Screw	4BA Screw	4BA Screw	4BA Screw
F	15.2	0.60	15.2	0.60	20.3	0.80

D Dimension — Max. shaft length.

	K1		K2		K3	
	mm	in	mm	in	mm	in
A	19.1	0.75	28.2	1.11	41.9	1.65
B	14.0	0.55	21.1	0.83	29.5	1.16
C	5.7	0.22	7.4	0.29	7.7	0.30
D	12.7	0.500	12.7	0.500	12.7	0.500
E	6BA Screw	4BA Screw	4BA Screw	4BA Screw	4BA Screw	4BA Screw
F	15.2	0.60	15.2	0.60	20.3	0.80

D Dimension — Max. shaft length.

	K1		K2		K3	
	mm	in	mm	in	mm	in
A	Pointer or other loose Accessory.					
B	14.0	0.55	21.1	0.83	29.5	1.16
C	10.8	0.425	10.8	0.425	13.3	0.525
D	4.7	0.185	5.3	0.210	6.4	0.250
E	9.0	0.355	9.0	0.355	11.0	0.435
F	6BA Screw	4BA Screw	4BA Screw	4BA Screw	4BA Screw	4BA Screw

E Dimension — Max. shaft length.

## Ordering Codes

R	1	1	-	0	9	-	0
---	---	---	---	---	---	---	---

**Knob Size**  
1 K1  
2 K2  
3 K3

**Knob Fitted**  
0 Without disc  
1 With aluminium spun disc

R	1	1	-	2	0	9	-	0
---	---	---	---	---	---	---	---	---

**Knob Size**  
1 K1  
2 K2  
3 K3

**Knob Fitted**  
0 Without disc  
1 With aluminium spun disc

R	1	1	-	3	0	9	-	0
---	---	---	---	---	---	---	---	---

**Knob Size**  
1 K1  
2 K2  
3 K3

**Knob Fitted**  
0 Without disc  
1 With aluminium spun disc

R	1	1	-	4	0	9	-	0
---	---	---	---	---	---	---	---	---

**Knob Size**  
1 K1  
2 K2  
3 K3

**Knob Fitted**  
0 Without disc  
1 With aluminium spun cap

# ACCESSORIES

## Pointers



4 Location Pegs to suit each appropriate size K1-K3

A push fit accessory, moulded in black thermoplastic providing a visual indication of knob position.

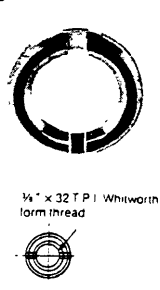
## Nut Covers



4 Location Pegs to suit size of Knob  
45°  
Filled White Line

A push fit accessory for K1 plain knobs to hide the component fixing nut in applications where this nut is too large to fully enter the knob counterbore. Available with or without white indicator line.

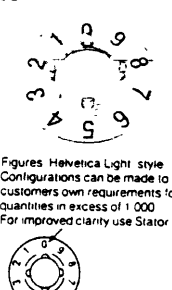
## Ring Nuts



$\frac{1}{4}$ " x 32 T P 1 Whitworth form thread

A brass nickel plated nut especially designed for securing components where a normal nut, would prevent the accessory reaching the panel. This nut should always be used with skirts and pointers but can be used to enhance the appearance of a plain knob.

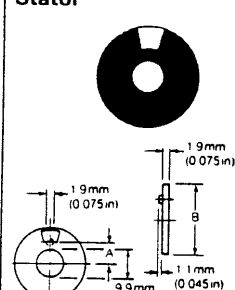
## Skirt



Figures Helvetica Light style Configurations can be made to customers own requirements for quantities in excess of 1 000 For improved clarity use Stator

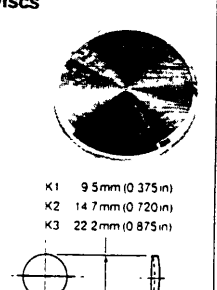
A push fit accessory for round knobs, moulded in transparent polycarbonate with hot foil stamped figures on underside of skirt. An integral spacing ring is provided to prevent visible contact of skirt with instrument panel. When using the K1 size skirt please note the necessity of using a ring nut.

## Stator



A black thermoplastic stator with a white hot foil stamped sector. This stator is intended for mounting under the transparent skirt, secured by the component fixing nut. A small spigot on the rear mates with a suitable hole in the instrument panel and prevents rotation of the stator.

## Discs



K1 9.5 mm (0.375 in)  
K2 14.7 mm (0.720 in)  
K3 22.2 mm (0.875 in)

An aluminium disc for mounting in the location collar on top of screw fix knob range. These discs are intended for function indication and similar purposes. Discs can be secured by any suitable adhesive.

## Ordering Codes/Dimensions

R	1	9	-	0	9	-	0
---	---	---	---	---	---	---	---

Size  
1 K1  
2 K2  
3 K3

R	1	9	-	0	9	-	0
---	---	---	---	---	---	---	---

K1 as R19110000 with the addition of\*

R	1	9	-	0	9	-	0
---	---	---	---	---	---	---	---

R	1	9	-	0	9	-	0
---	---	---	---	---	---	---	---

Figure Height  
1 K1 0.109 in  
2 K2 0.187 in  
3 K3 0.218 in

Engraving  
0 Plain  
1 0 to 9

R	1	9	-	0	9	-	0
---	---	---	---	---	---	---	---

K1 A 6.80 mm 0.27 in  
B 24.40 mm 0.96 in  
K2 R 1 9 2 4 0 0 0 0 0  
A 10.10 mm 0.40 in  
B 35.30 mm 1.39 in

R	1	9	-	0	9	-	0
---	---	---	---	---	---	---	---

Size  
1 K1  
2 K2  
3 K3

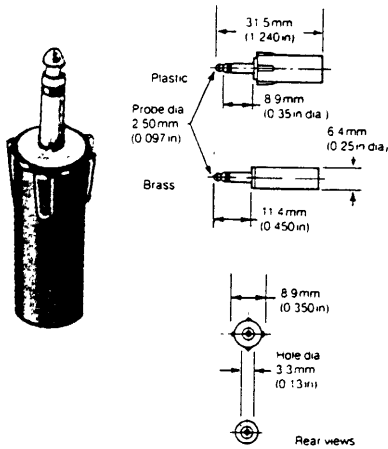
2.5mm and 3.5mm Jack plugs with integrally moulded insulation and solder terminals. Surface finish is silver plate for

good contact resistance and solderability. Two styles of cover are available black thermoplastic and nickel plated brass. The

nickel plated version is the screened and, as such, is not insulated from the terminals.

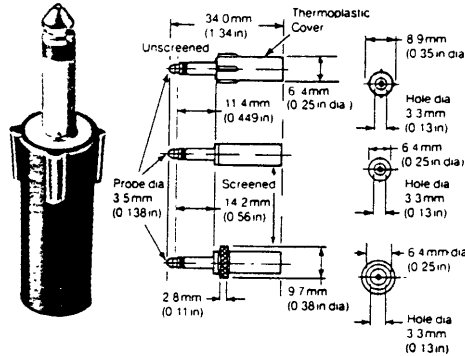
### Sub Miniature 2 Pole 2.5mm Plug

Sub miniature 2-pole plug. Suitable for lightweight cables and portable apparatus.



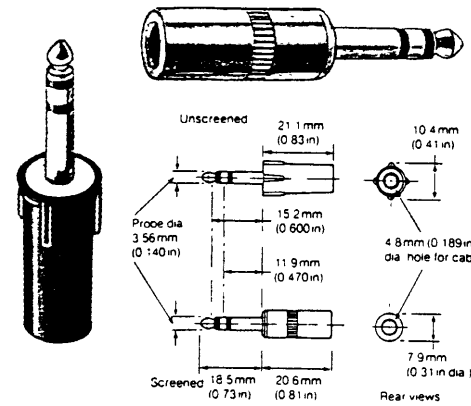
### Miniature 2 Pole 3.5mm Plug

Miniature 2-pole, high insulation Jack plugs available with various covers. These jacks have a rugged long-life design. A screwlocking version of the screened cover is available and when mated with the R3221 series socket they lock together.



### Miniature 3 Pole 3.5mm Plug

Miniature 3-pole, high insulation Jack Plug available with various covers. A robust versatile design with many applications.



### Specifications

Max. Working Voltage:	100V ac Not suitable for mains operation
Initial Contact Resistance:	0.025Ω approx. Using Rendar Socket
Insulation:	10 <sup>9</sup> Megohms @ 500V dc
Temp. Range:	0 to 60°C
Solder Terminations are provided	

Max. Working Voltage:	125V ac Not suitable for mains operation
Initial Contact Resistance:	0.015Ω approx. Using Rendar Socket
Insulation:	10 <sup>9</sup> Megohms @ 500V dc
Temp. Range:	0 to 60°C
Solder Terminations are provided	

Max. Working Voltage:	125V ac Not suitable for mains operation
Initial Contact Resistance:	0.015Ω approx. Using Rendar Socket
Insulation:	10 <sup>9</sup> Megohms @ 500V dc
Temp. Range:	0 to 60°C
Solder Terminations are provided	

### Ordering Codes

R 2 2 4 0 - 0 0 0
Cover Type
0 Plastic (Unscreened)
1 Brass Nickel (Screened)

R 2 - 2 0 - 0 0 0
Fixing Bush
2 Standard
1 Screw locking (Brass only)
Cover Material
0 Plastic (Unscreened)
1 Brass Nickel (Screened)

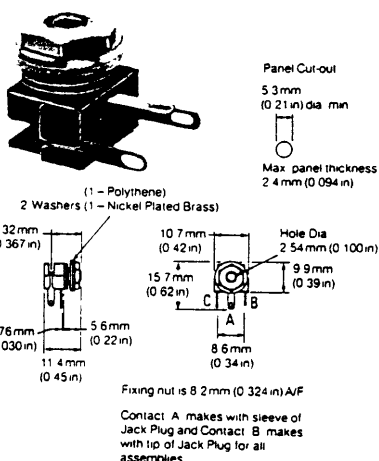
R 2 2 3 0 - 0 0 0
Cover Type
0 Plastic (Unscreened)
1 Brass Nickel (Screened)

The spring contacts are manufactured from phosphor bronze with a gold finish for good corrosion resistance and solderability.

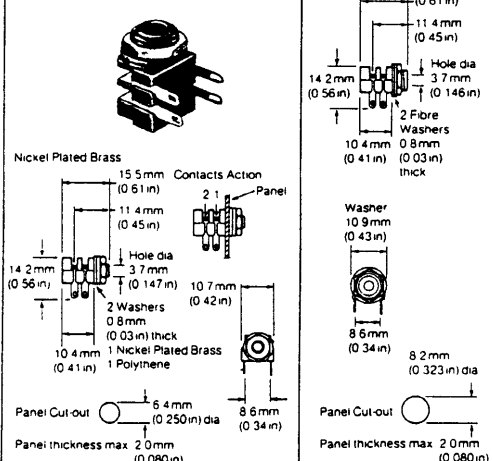
Life of the spring contact is enhanced by the generous curve at the fixed end. The sockets are provided with break

switching. The miniature 2 pole socket can be provided with either make or break switching.

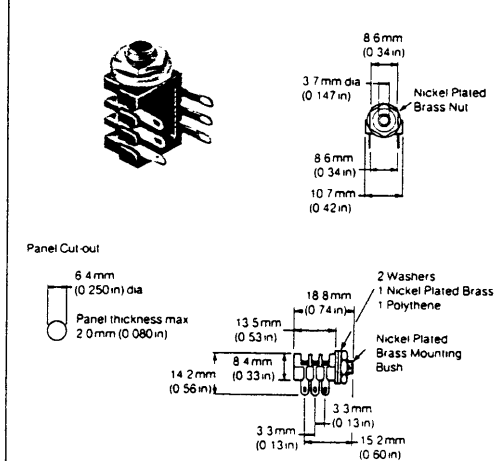
### Sub Miniature 2 Terminal 2.5mm



### Miniature 2 Terminal 3.5mm



### Miniature 3 Terminal 3.5mm



### Specifications

Max. Working Voltage:	100V ac Not suitable for mains operation
Current:	3 amp for 5 secs. (overload)
Initial Contact Resistance:	0.025Ω approx.
Insulation:	10 <sup>9</sup> Megohms @ 500V dc
Temp. Range:	0 to 70°C

Max. Working Voltage:	125V ac Not suitable for mains operation
Current:	5 amps for 10 secs. (overload)
Initial Contact Resistance:	0.025Ω
Insulation:	10 <sup>9</sup> Megohms @ 500V dc
Temp. Range:	0 to 70°C

Max. Working Voltage:	125V ac Not suitable for mains operation
Current:	5 amps for 10 secs. (overload)
Initial Contact Resistance:	0.125Ω approx.
Insulation:	10 <sup>9</sup> Megohms @ 500V dc
Temp. Range:	0 to 70°C

### Ordering Codes

R 3 2 4 0 - 0 0 0
When Jack Plug is inserted:—
0 Contacts B and C break
8 Contact B only

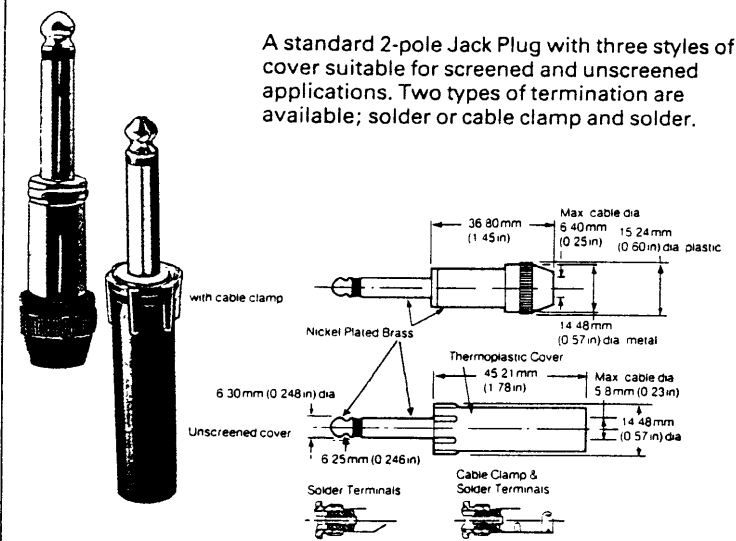
R 3 2 2 - - 0 0 0
Fixing Bush
0 Nickel Plated Brass
1 Plastic Threaded Bush
Code
0 Break
1 Make
Contacts Action
1 2
Break Break
Make Break

R 3 2 3 0 0 0 0 0
-------------------

# JACK PLUGS & SOCKETS - 2 POLE

A range of 6.3mm (1/4") nominal diameter Jack Plugs. Finish of exterior metalwork is nickel plate with silver plated terminals. The cover of the nickel plate version is the screen and, as such, is not

## 2 Pole Standard 6.3mm Plug



A standard 2-pole Jack Plug with three styles of cover suitable for screened and unscreened applications. Two types of termination are available; solder or cable clamp and solder.

## Specifications

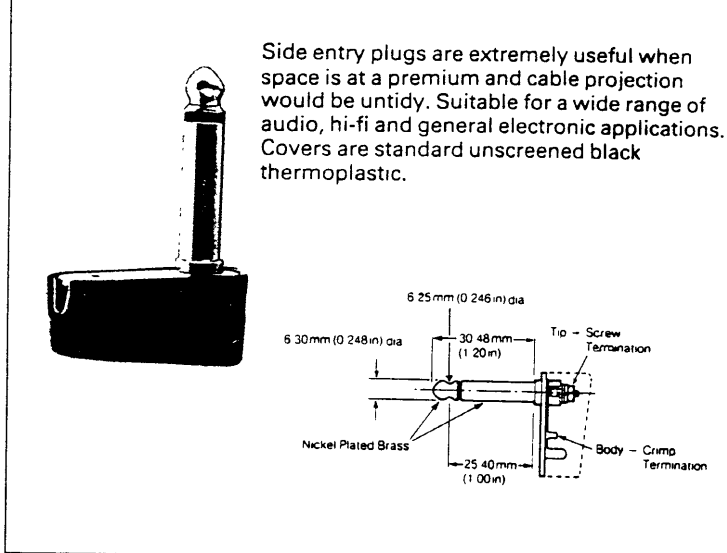
Max. Working Voltage:	200V ac Not suitable for mains operation
Initial Contact Resistance:	0.015Ω approx. Using Rendar Socket
Insulation:	10 <sup>9</sup> Megohms @ 500V dc
Temp. Range:	0 to 60°C
Probe similar to GPO type 201	

## Ordering Codes

R	2	2	6	—	—	0	0	0
Termination				Cover Type				
0 Solder Terminals				0 Unscreened Plastic				
9 Cable Clamp & Solder Term.				7 Screened with Plastic Cap				
				9* Metal Cap				
				*Metal (Screened)				

insulated from the terminals. Screened covers are available with or without compression style thermoplastic cable clamp. This clamp is secured by either a metal

## 2 Pole Side Entry Plug



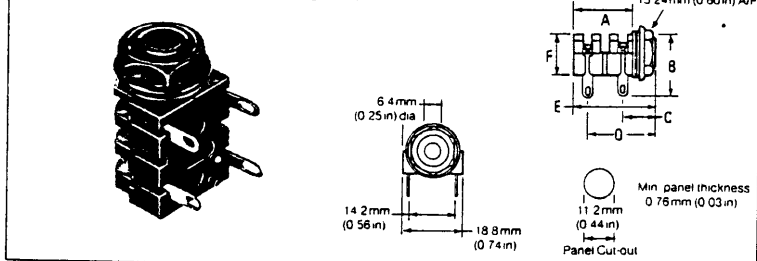
Side entry plugs are extremely useful when space is at a premium and cable projection would be untidy. Suitable for a wide range of audio, hi-fi and general electronic applications. Covers are standard unscreened black thermoplastic.

Max. Working Voltage:	200V ac Not suitable for mains operation
Initial Contact Resistance:	0.015Ω approx. Using Rendar Socket
Insulation:	10 <sup>9</sup> Megohms @ 500V dc
Temp. Range:	0 to 60°C
Probe similar to GPO type 201	

R	2	3	6	9	0	0	0	0
---	---	---	---	---	---	---	---	---

A range of 6.3mm (1/4") diameter Jack Sockets. These sockets are provided with either a black plastic fixing nut or a chrome plated metal fixing bush.

## 2 Pole Standard Terminal 6.3mm



## Specifications

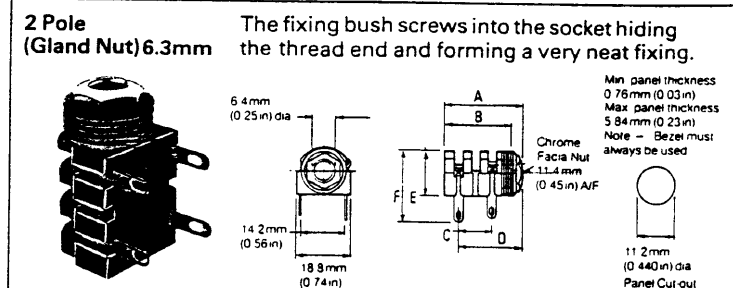
Dimension D— it is important that this dimension is maintained within ±0.254mm (0.010 in) when mounted; the fibre washers are provided for this purpose.	mm	in	Max. Working Voltage: 250V ac Not suitable for mains operation
	A 22.5	0.88	
	B 25.50	1.004	
	C 12.4	0.49	
	D 25.3	0.99	
	E 31.2	1.23	
			Current: 5 amp for 15 secs.
			Insulation: 10 <sup>9</sup> Megohms @ 500V dc
			Initial Contact Resistance: 0.015Ω
			Temp. Range: 0 to 70°C max.

## Ordering Codes

R	3	2	6	2	0	0	0	0
---	---	---	---	---	---	---	---	---

The spring contacts are manufactured from phosphor bronze with a gold flash finish to give good solderability and corrosion resistance. Spring life is enhanced by the curve at the fixed end.

## 2 Pole (Gland Nut) 6.3mm

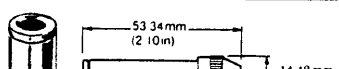


The fixing bush screws into the socket hiding the thread end and forming a very neat fixing.	mm	in	Max. Working Voltage: 250V ac Not suitable for mains operation
	A 31.2	1.23	
	B 22.5	0.88	
	C 12.7	0.50	
	D 25.1	0.99	
	E 16.3	0.64	
			Current: 5 amp for 15 secs.
			Insulation: 10 <sup>9</sup> Megohms @ 500V dc
			Initial Contact Resistance: 0.015Ω
			Temp. Range: 0 to 70°C max.

R	3	2	6	4	0	0	0	5
---	---	---	---	---	---	---	---	---

## Line Socket

Three styles of Line Socket to suit three standard 6.3mm (1/4") diameter Jack Plugs.



## Ordering Code

R	Number of Contacts
---	--------------------

## Specification

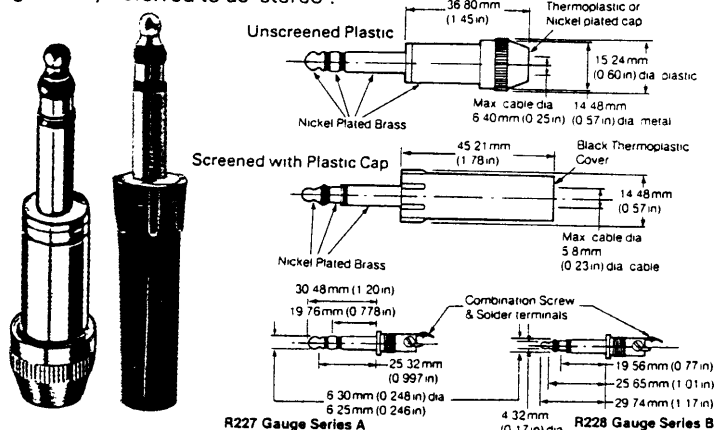
(1) PO Type 201

# 3 POLE

or thermoplastic cap.  
Thermoplastic covers and caps are standard black.

## 3 Pole Standard 6.3mm Plug

These Jack Plugs have integrally moulded insulation and combined screw and solder terminals.  
Two sizes of plug are available, both based on Post Office sizes designated Gauge 'A' or 'B' respectively. Gauge 'A' is the profile generally referred to as 'stereo'.



## Specifications

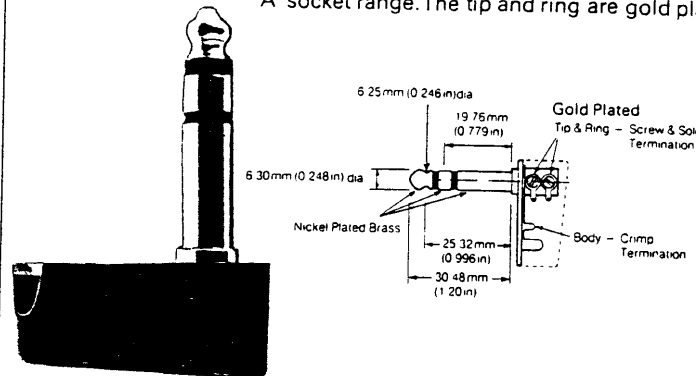
Max. Working Voltage:	200V ac Not suitable for mains operation
Initial Contact Resistance:	0.015Ω approx. Using Rendar Socket
Insulation:	10 <sup>9</sup> Megohms @ 500V dc
Temp. Range:	0 to 60°C

## Ordering Codes

R	2	2	-	2	-	0	0	0
PO Gauge	7	Gauge 'A'	Cover Type	0	Unscreened Plastic			
	8	Gauge 'B'		7	Screened with Plastic Cap			
				9*	Metal Cap			*Metal (Screened)

## 3 Pole Side Entry Plug

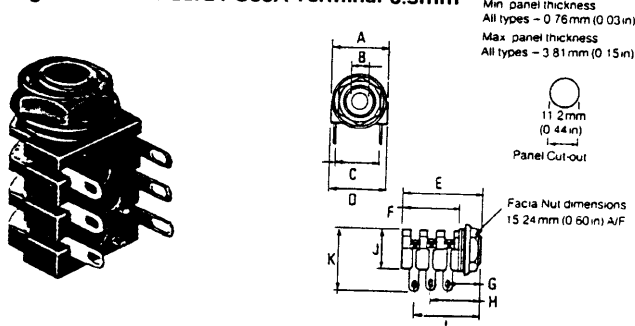
A side entry Gauge 'A' plug with terminals and cover designed to be used in a confined space and mates with the Line Socket and 3 Pole Gauge 'A' socket range. The tip and ring are gold plated.



Max. Working Voltage:	200V ac Not Suitable for mains operation
Initial Contact Resistance:	0.015Ω approx. Using Rendar Socket
Insulation:	10 <sup>9</sup> Megohms @ 500V dc
Temp. Range:	0 to 60°C

A tough glass filled nylon is used for the body.  
These sockets are provided with break switching and the Bezel colour is black.

## 3 Pole Gauge A + B Standard PO99A Terminal 6.3mm



## Specifications

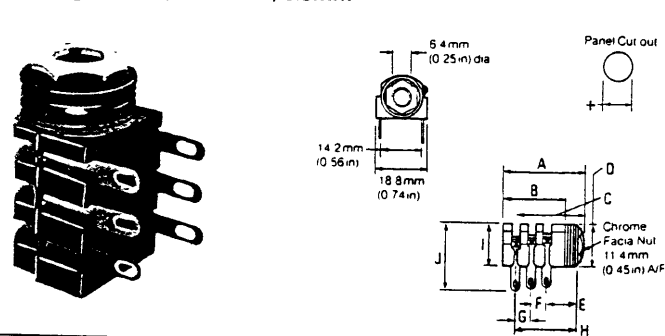
Gauge A	Gauge B		
mm	in	mm	in
(Nut Bezel)			
A 18.0	0.710	18.0	0.710
B 6.4	0.25	6.4	0.25
C 14.2	0.56	14.2	0.56
D 18.8	0.74	18.8	0.74
E 31.2	1.23	31.2	1.23
F 22.5	0.88	22.5	0.88
G 12.4	0.49	13.0	0.51
H 18.8	0.74	19.3	0.76
I 25.3	0.99	25.8	1.01
J 16.3	0.64	16.3	0.64
max.			
K 25.9	1.02	26.7	1.05

Max. Working Voltage: 250V ac Not suitable for mains operation  
Current: 5 amp for 15 secs.  
Insulation: 10<sup>9</sup> Megohms @ 500V dc  
Initial Contact Resistance: 0.015Ω  
Temp. Range: 0 to 70°C max.

\*Technical specifications above are common to 3 Pole Gland Nut

Dimension I — it is important that this dimension is maintained with  $\pm 0.381\text{mm}$  (0.015in) when mounted; the fibre washers are

## 3 Pole — Gauge A + B (Gland Nut) 6.3mm



Gauge A	Gauge B		
mm	in	mm	in
A 31.2	1.23	30	1.2
B 23.4	0.92	23.4	0.92
C 25.75	1.014	25.75	1.014
D 15.87	0.625	15.87	0.625
E 12.4	0.49	12.4	0.49
F 6.1	0.24	6.1	0.24
G 6.3	0.25	6.1	0.24
H 25.1	0.99	25.1	0.99
I 16.3	0.64	16.3	0.64
J 25.5	1.02	26.7	1.05

Gauge A — Bezel must always be used

Panel Thickness mm in.  
Min. 0.76 0.03  
Max. 5.84 0.23

+ Panel hole diameter 11.2 0.44

Gauge B With bezel Without bezel  
Panel thickness mm in mm in  
Min. 0.76 0.03 0.76 0.03  
Max. 4.06 0.16 5.59 0.22

+ Panel hole diameter 11.2 0.440 9.5 0.375

Dimension A — it is important that this dimension is maintained within  $\pm 0.254\text{mm}$  (0.010in) Gauge A,  $\pm 0.381\text{mm}$  (0.015in) Gauge B,

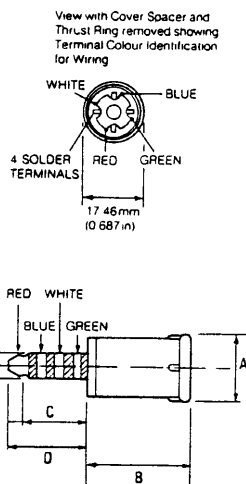
\*See 3 Pole Standard for Technical specifications

# 4,5,6 POLE & MULTIPOLE

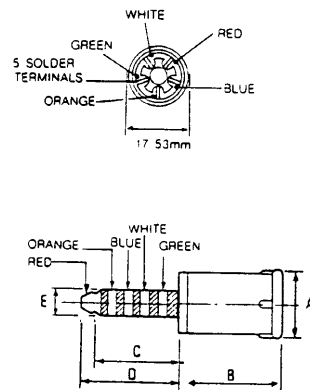
4, 5 and 6 pole Jack Plugs each conforming to Post Office Specification for all moulded construction plugs.  
Tip and rings are un-plated brass and quick connections are

suitable for solder or tag ended cables.  
A cable clamp secures the cable from terminal stress and a rugged thermoplastic cover gives overall protection.

## 4 Way (PO 420)



## 5 Way (PO 505)



### Specifications

	mm	in	Max. Working Voltage:	200V ac Not suitable for mains operation
A	19.84 dia.	0.781 dia.		
B	30.48 ± 0.15	1.20 ± 0.006		
C	19.22 ± 0.05	0.757 ± 0.002	Initial Contact	0.015Ω
D	23.012 ± 0.05	0.906 ± 0.002	Resistance:	Plug to socket
E	7.54 dia. ± 0.05	0.297 ± 0.002	Insulation:	10 <sup>9</sup> Megohms @ 500V dc
			Temp. Range:	0 to 60°C

	mm	in	Max. Working Voltage:	200V ac Not suitable for mains operation
A	19.84 dia.	0.781 dia.		
B	30.48 ± 0.15	1.20 ± 0.006		
C	23.82 ± 0.24	0.938 ± 0.009	Initial Contact	0.015Ω
D	27.60 ± 0.31	1.17 ± 0.012	Resistance:	Plug to socket
E	7.54 ± 0.05	0.297 ± 0.002	Insulation:	10 <sup>9</sup> Megohms @ 500V dc
			Temp. Range:	0 to 60°C

### Ordering Codes

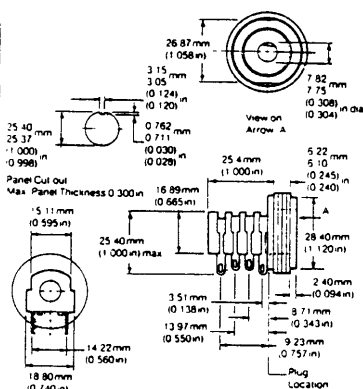
R 2 2 9 0 0 — 0 0  
Cover Colour  
0 Black  
2 Grey

R 2 2 9 5 0 5 0 —  
0 Black  
2 Grey

## 4 Terminal — Panel Mounted



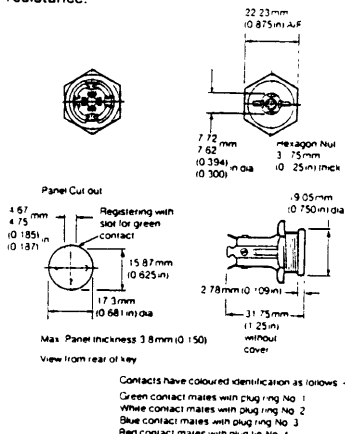
Fixed by a plastic nut with disposable washers provided for panel thickness adjustment. The thread is hidden by a plastic fixing nut which screws into the socket. Gold flashed spring contacts made from phosphor bronze give good solderability and corrosion resistance. Spring life is enhanced by the generous curve at the fixed ends.



## 4 Terminal PO Type 84A Panel Mounted

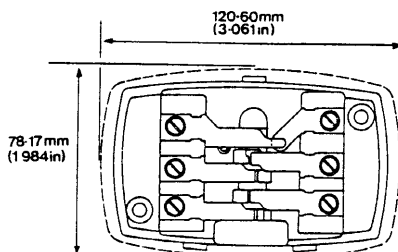
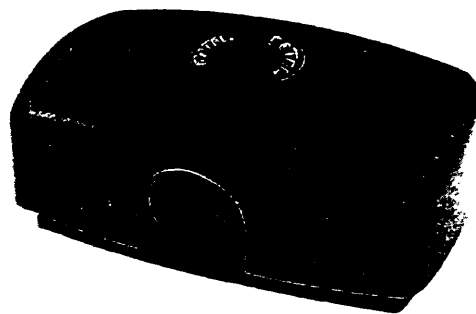


Suitable for portable telephone installations and for test equipment. A rugged thermoset socket body and nickel plated phosphor bronze contacts with tinned ends for good solderability, contact and corrosion resistance.



## 5 Terminal

A wall mounted 5 pole socket to mate with PO 505 Jack Plug.  
Manufactured from toughened grey polystyrene with nickel-silver plated spring contacts.



### Specifications

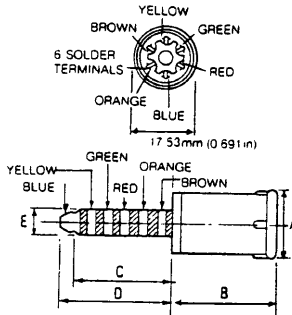
Initial Contact Resistance: 0.015Ω approx.  
Insulation: 10<sup>9</sup> Megohms

Insulation: 10<sup>9</sup> Megohms @ 500V dc

Max. Working Voltage: 200V ac

# ACCESSORIES

## 6 Way (PO 620)



### Specifications

	mm	in
A	19.84 dia	0.781
B	30.48 ± 0.15	1.20 ± 0.006
C	28.78 ± 0.24	1.13 ± 0.009
D	32.56 ± 0.4	1.28 ± 0.015
E	7.54 ± 0.05	0.297 ± 0.002
Max. Working Voltage:	200V ac Not suitable for mains operation	
Initial Contact Resistance:	0.015Ω Plug to socket	
Insulation:	10 <sup>9</sup> Megohms @ 500V dc	
Temp. Range:	0 to 60°C	

### Ordering Codes

R 2 2 9 6 2 - 0 0

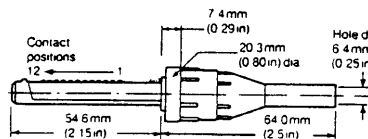
Cover Colour  
0 Black  
2 Grey

## Multipole Plug



The socket, fixing nut and plug are moulded in a tough thermoplastic, for use with miniature cable, having up to 12 conductors plus a screen. Electrical contact is made by a 90° clockwise turn of the plug after insertion, at which time the plug is screened via an earth terminal.

The plug incorporates a cable clamp to prevent the cable twisting as the finger-grip is screwed on and a PVC sheath to provide cable protection.



### Specifications

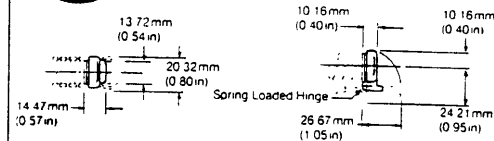
Max. Working Voltage:	150V ac Not suitable for mains operation.
Current:	1 amp (Resistive)
Initial Contact Resistance:	0.025Ω Plug to Socket
Insulation:	10 <sup>9</sup> Megohms @ 500V dc

### Ordering Codes

R 4 1 1 0 1 0 0 0

## Dust Cover

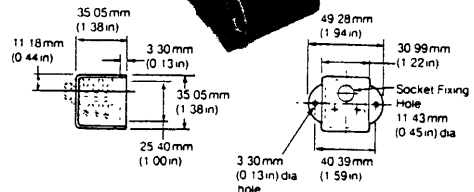
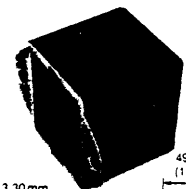
Two accessories available for use with Jack Sockets are the Dust Cover and Mounting Box.



### Ordering Codes

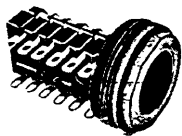
R 3 9 0 2 0 0 0 0

## Mounting Box

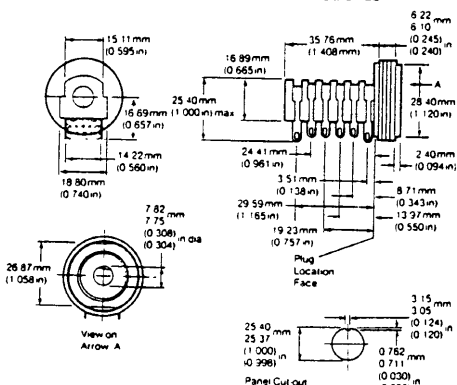


R 3 9 0 3 0 0 0 0

## 6 Terminal



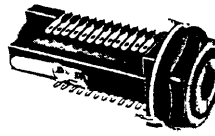
Fixed by a plastic nut with disposable washers provided for panel thickness adjustment. The thread end is hidden by a plastic fixing nut which screws into the socket. Gold flashed spring contacts made from phosphor bronze give good solderability and corrosion resistance. Spring life is enhanced by the generous curve at the fixed ends



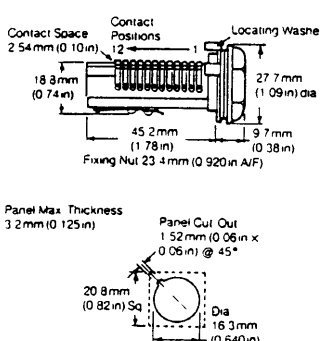
### Specifications

Initial Contact Resistance: 0.015Ω

## Multipole Terminal



Gold flash spring contacts made from phosphor bronze to give good solderability and corrosion resistance with a nickel plated locating washer used to prevent socket rotation in the panel.



### Specifications

Max. Working Voltage:	150V ac
Current:	1 amp (Resistive)
Initial Contact Resistance:	0.080Ω



RENDAR LIMITED,  
A WKR Group Company,

Durban Road, South Bersted,  
Bognor Regis, West Sussex

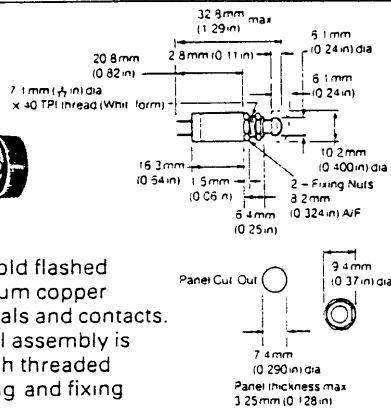
# SWITCHES

## Miniature Push Button — 1 Pole



A single pole momentary action push button switch with contacts offering make or break actions. A rugged thermoplastic switch body and button

with gold flashed beryllium copper terminals and contacts. Central assembly is through threaded bushing and fixing nut.



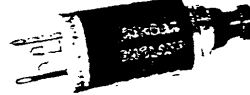
### Specifications

Max. Working Voltage:	240V ac Not suitable for mains operation
Current/Life:	50,000 operations @ 12 Volts 1.5 amps dc 50,000 operations @ 50 Volts 0.5 amps dc 25,000 operations @ 250 Volts 0.5 amps ac 50 Hz
Initial Contact Resistance:	0.025Ω
Insulation:	10 <sup>9</sup> Megohms @ 500V dc (Isolated Panel)
Temp Range:	0 to 60°C

### Ordering Codes

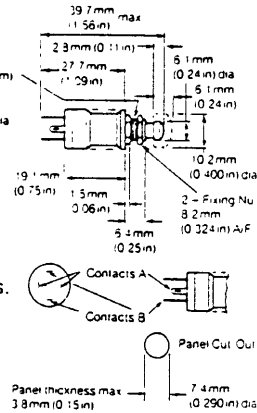
Switching as button is pressed	Colour of base	Button Caps Packs of 10
R 5 2 1 0 1 0 0 0	Black	R 5 2 9 0 0 0 4 1
Contacts make		Red
R 5 2 2 0 1 0 0 0	White	R 5 2 9 0 0 0 0 1
Contacts break		Black

## Miniature Push Button — 2 Pole



A double pole momentary action push button switch with contacts offering three versions of switching actions. A rugged thermoplastic switch body and button

with gold flashed beryllium copper terminals and contacts. Central assembly is through threaded bushing and fixing nut.



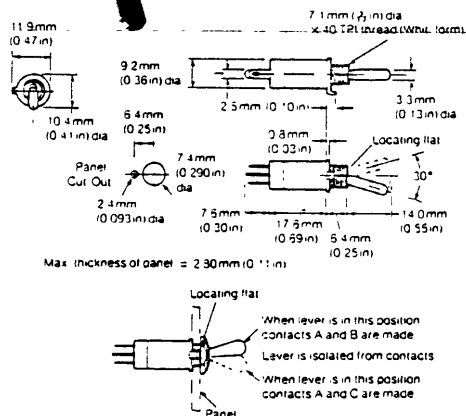
Max. Working Voltage:	250V ac Not suitable for mains operation
Current/Life:	50,000 operations @ 12 Volts 1.5 amps dc 50,000 operations @ 50 Volts 0.5 amps dc 50,000 operations @ 250 Volts 0.5 amps ac 50 Hz
Initial Contact Resistance:	0.030Ω
Insulation:	10 <sup>9</sup> Megohms @ 500V dc (Isolated Panel)
Temp Range:	0 to 60°C

Switching as button is pressed	Colour of base	Button Caps Packs of 10
R 5 2 3 0 1 0 0 0		R 5 2 9 0 0 0 4 1
Contacts 'A' break, before		Red
Contacts 'B' make,	Red	R 5 2 9 0 0 0 0 1
R 5 2 4 0 1 0 0 0	Black	Black
Contacts 'A' make before		
Contacts 'B' make		

## Miniature Toggle



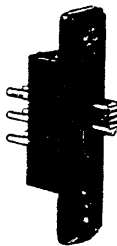
A rugged thermoplastic switch body with straight red lever. The terminals are silver plated beryllium copper with solid silver alloy contacts. Mounting is by a threaded bush and nickel fixing nut.



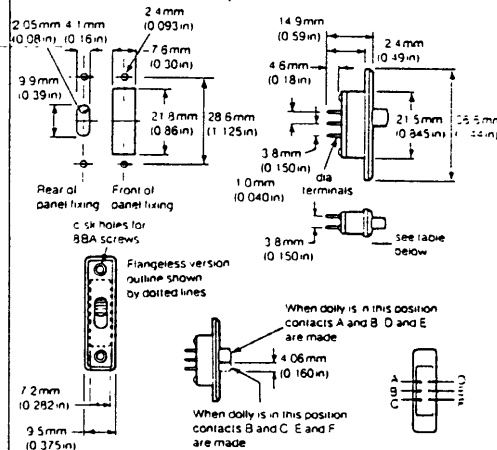
### Specifications

Max. Working Voltage:	250V ac
Current/Life:	50,000 operations @ 24 Volts 3 amp dc 50,000 operations @ 250 Volts 1.5 amp ac 50 Hz
Initial Contact Resistance:	0.010Ω
Insulation:	10 <sup>9</sup> Megohms @ 500V dc (Isolated Panel)
Temp Range:	0 to 60°C

## Miniature Slide

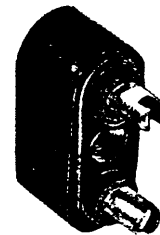


A double pole change over slide switch suitable for panel or printed circuit board mounting, both versions incorporating wiping action contacts. A rugged thermoplastic switch body and dolly with gold plated beryllium copper contacts and gold plated phosphor bronze external pin terminals.

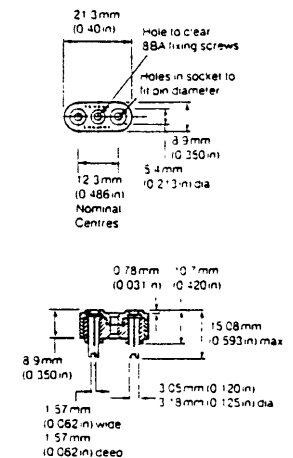


Max. Working Voltage:	250V ac
Current/Life:	20,000 operations @ 30 Volts 500 mA dc 20,000 operations @ 250 Volts 50 Hz ac 250 mA
Initial Contact Resistance:	0.015Ω
Insulation:	10 <sup>9</sup> Megohms @ 500V dc (Isolated Panel)
Temp Range:	0 to 50°C

## Crystal Holders



A socket designed to facilitate the mounting of standard transmitter and receiver oscillator crystals. All mouldings are high insulation thermoset materials and all socket pins are silver plated brass, ensuring good contact and solderability.



### Ordering Codes

R 4 3 1 2 0 0 0 0
(for use with RCL Style CH/B Crystals)