



CAPS

TUNGSRAM

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Lamp cap designation system

(Extract from IEC Publication 61-1)

Generally speaking, a lamp cap and the corresponding holder are designated by one or more letters, followed by a number. This designation gives a concise indication of the part which is essential to ensure interchangeability of the cap in the holder. Capital letters are used, sometimes followed by a small letter.

The letter or letters indicate the cap construction in accordance with the following code:

- B – means bayonet
- BA – means bayonet automobile
To distinguish whether a cap is a B or BA cap, the following directives must be taken into account:
 - the standard pin length for B15 caps is 0.9–1.1 mm, whereas for BA15 caps the standard pin length is 0.64 mm minimum;
 - for BA caps, requirements, if any, for creepage distances are usually small in view of their operation at extra low voltage.
- E – means screw thread
- F – means single contact pin (post, tab, etc.); a shell made of conducting material must be insulated from the contact-making part of the pin. Different forms of pin are indicated by small letters after the letter F, for example: „a” indicates a cylindrical pin.
- G – means two or more contact pins.
- P – means prefocus
- S – means shell

The number following the letter(s) indicates the approximate value in millimetres of the principal dimension of the cap or base, viz.:

- For B – the diameter of the shell
- For BA – the diameter of the shell
- For E – the crest diameter of the screw thread
- For F – the diameter or other similar important dimension of the pin
- For G – the pin spacing: for two pins the distance between centres of pins, for more pins of which the centres are situated on a circle, the diameter of the circle.
If the centres of the pins are not all situated on a circle, the distance between the centres of the contact-making pins for the main circuit or the diameter of the circle through the centres of the contact-making pins.
- For P – the diameter or other important dimension of the part by which the lamp is located laterally

For S – the diameter of the shell or the dimension of that part which is essential for the fit in the holder

Examples: E27
BA15

The above designations may be too general, and it is therefore often necessary to give an additional indication to distinguish characteristics such as the following, given in the order in which they appear below:

- a small letter indicating the number of contacts (plates, pins, plungers, springs or tubes) of flexible connections:
 - „s” for one
 - „d” for two
 - „t” for three
 Example:
B15d Bayonet cap with a shell diameter of 15 mm approximately having two contact plates.
- a number preceded by an oblique stroke, giving in millimetres the approximate over-all length of the cap, including protruding isolation, but excluding of the height of protruding contact plates, the length of any pins or flexible connections and the height of protruding conductor bushes.
- a number preceded by the multiplication sign x, giving in millimetres the approximate outside diameter either of the skirt or of the open end of the shell. In the case of a spun-in cap or of a cap with a fixed liner having a reduced opening, the approximate inside diameter of the open end of the shell is referred to.

Caps which have the same designation according to the above rules, but which nevertheless, because of some particular feature(s), would not be interchangeable, are differentiated by adding an X, Y or Z after the letter(s) for the more current (or already classified) type. For example: BA15 caps, for which the pins have different lengths or are offset so as to prevent them from engaging with a normal BA15 lampholder, are designated, by BAX15 and BAY15 respectively. It is stressed that the part of the designation which gives the character of the cap and determines in the first instance the fit in the holder, is placed before the oblique stroke where this is used.

Examples:

E14/25 × 17 Screw cap with a crest diameter of the thread of 14 mm approximately, an over-all length of 25 mm approx., and a skirt diameter of 17 mm approx.

GENERAL

G13/10×24	Bi-pin cap with a distance between centres of the pins of 13 mm approximately, a shell height of 10 mm approx., and a shell diameter of 24 mm approx.
P45t-41	Prefocus cap with three contact pins (tabs) and a ring having two steps of 45 and 41.5 mm diameter respectively, for use in two different holders.
SV8.5-8	Conical festoon cap with a diameter of 8.5 mm approximately and a shell length of 8 mm approx., measured between a circle of 3.5 mm diameter on the cone and the open end of the shell.

In general, a lampholder has the same designation as the relevant cap (base). The functions of holding and contact-making are then combined in the holder.

In some cases, the use of the holder is restricted to holding only, the contact-making being achieved by a separate connector e.g.: the seat in a reflector for a lamp with a P45t cap is designated P45; the connector is designated G16t.

NOTE

In certain lamps, caps are assembled in the production process of the lamps themselves. In the following table, the main part of the cap and the flange designations according to IEC are listed along with those of the ready-made cap.

IEC-designation of the ready-made lamp cap	IEC-designation of the main cap part	IEC-designation of the flange
P43t-38	G16tL	P43t-38
P45t-41	G16t	P45t-41

How to order

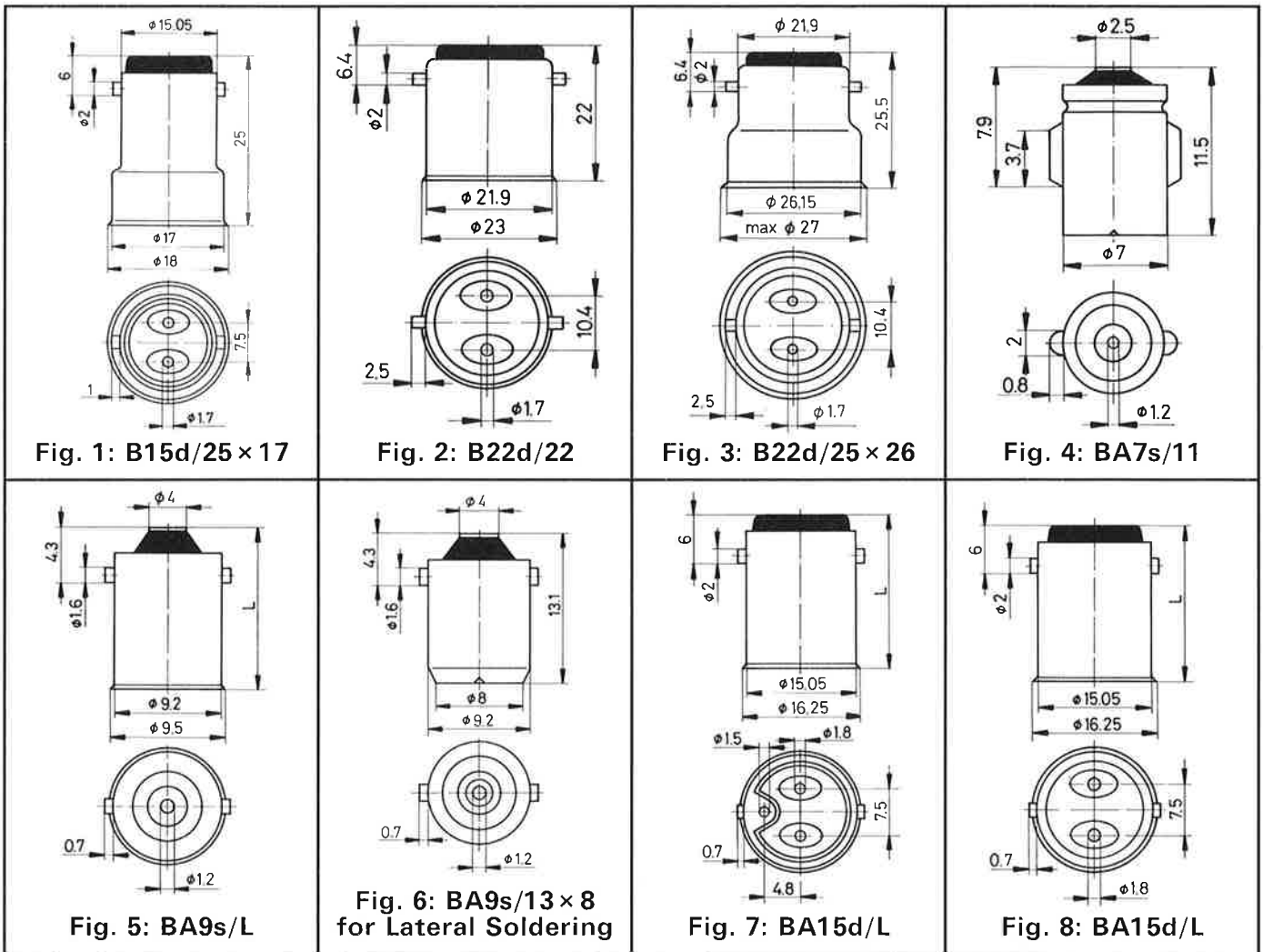
Dimension data are given without obligation of the producer who reserves the right to introduce some modifications. It is recommended to check the dimensions of the sample before placing an order.

Please specify TUNGSRAM's caps by their

- type
- code number

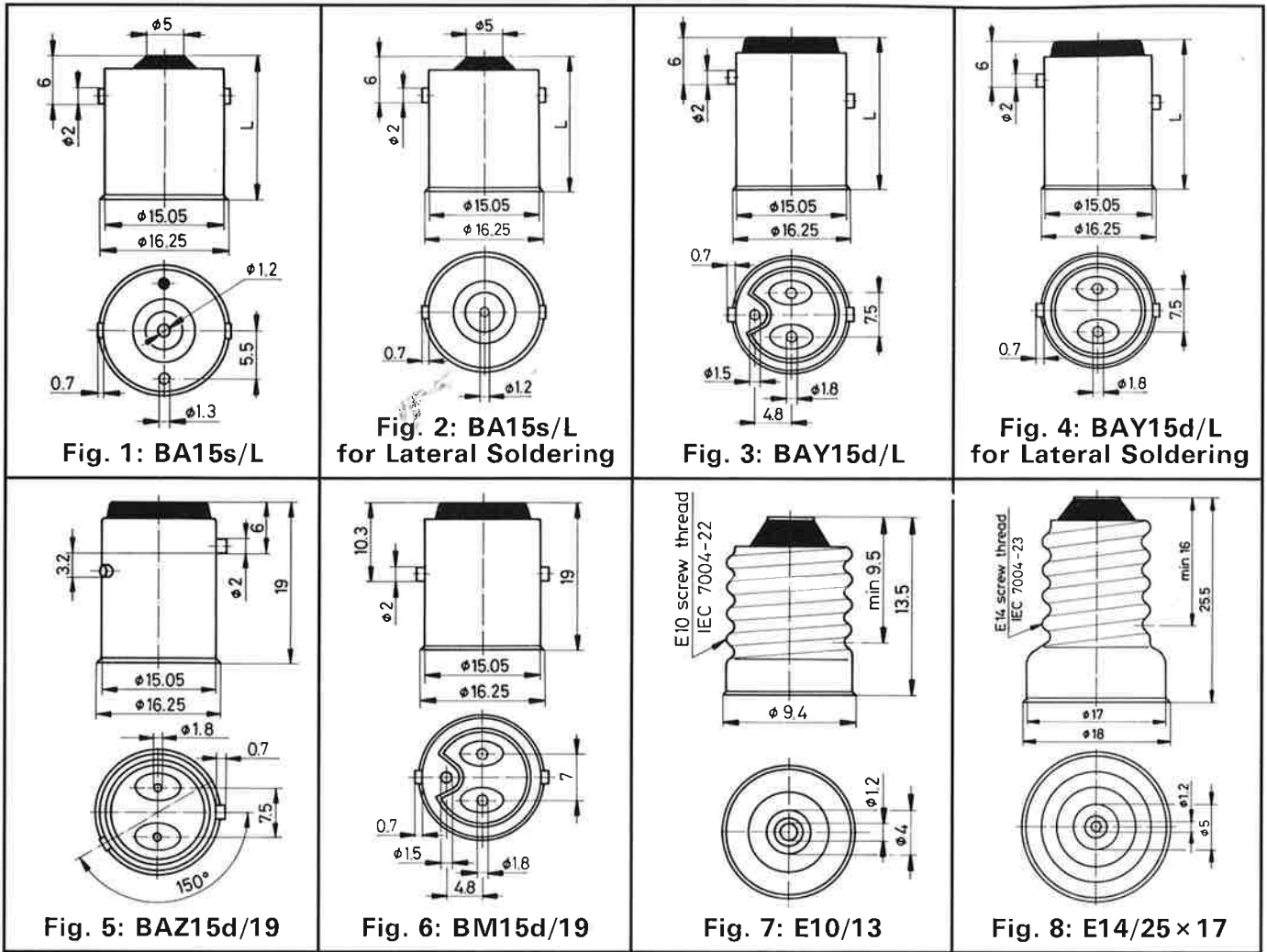
We suggest you to place an order on the basis of approved samples.

BAYONET CAPS

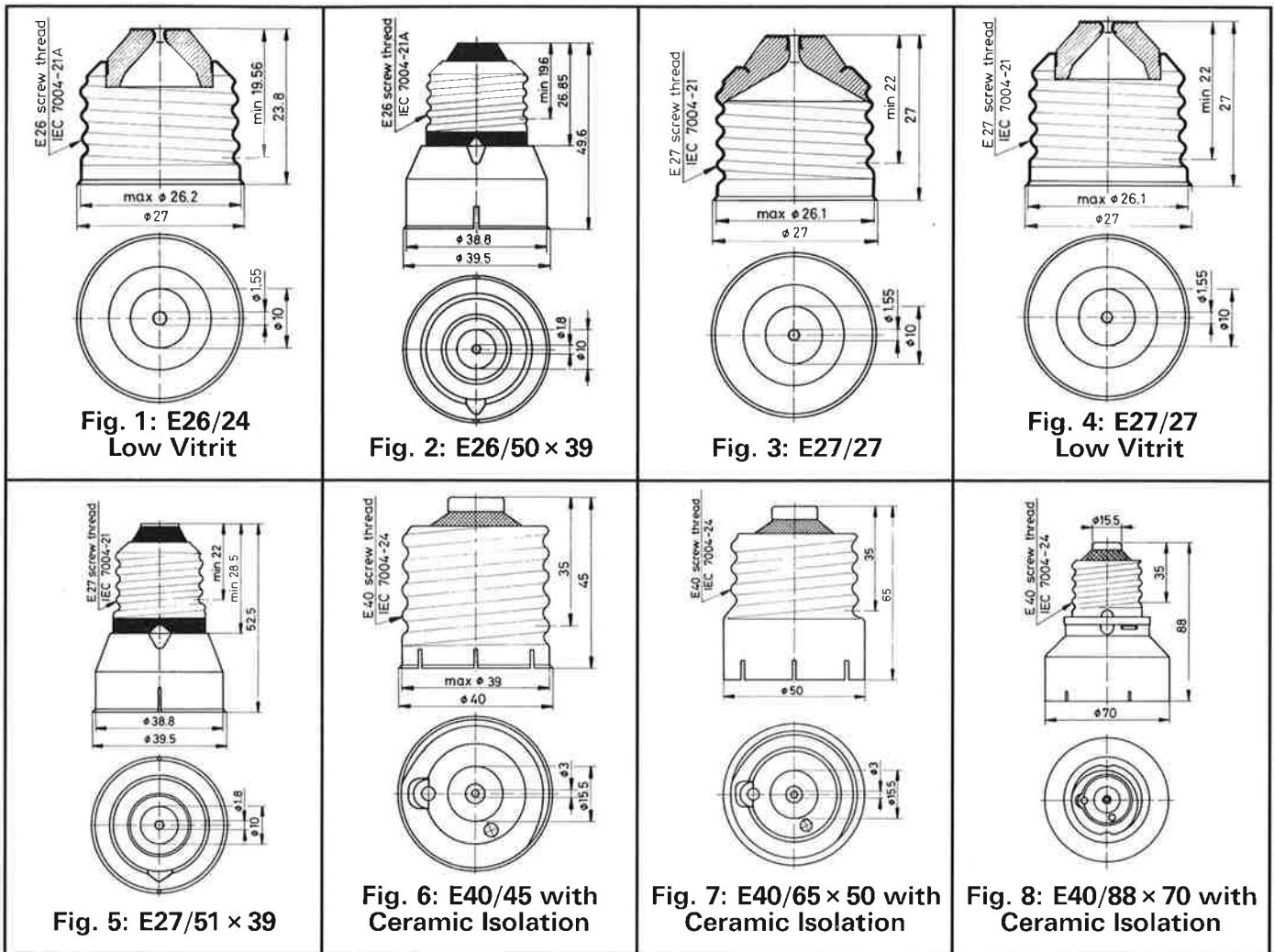


Code No	Type	Fig.	L (mm)	Conforms to	Packing (pcs/box)
9-8-812-15010	B15d/25 × 17 Brass	1	-	IEC 7004-11	4000
9-8-812-22020	B22d/22 Brass	2			
9-8-812-22100	B22d/22 Aluminium			3	IEC 7004-10
9-8-812-22010	B22d/25 × 26 Brass				
9-8-812-22130	B22d/25 × 26 Brass, nickel-plated	3		2200	
9-8-812-22090	B22d/25 × 26 Aluminium				
9-8-812-07010	BA7s/11 Brass, nickel-plated, slotted	4		IEC 7004-15	40000
9-8-812-09010	BA9s/13 Brass, nickel-plated	5	13.1	IEC 7004-14	24000
9-8-812-09060	BA9s/13 × 8 Brass, nickel-plated, slotted, for Lateral Soldering	6	-		
9-8-812-09050	BA9s/14 Brass, nickel-plated	5	14	IEC 7004-11A	6800
9-8-812-15040	BA15d/19 Brass, nickel-plated	7	19		
9-8-812-15090	BA15d/19 Brass, nickel-plated	8			
9-8-812-22110	BA15d/19 Brass, nickel-plated, slotted				
9-8-812-15050	BA15d/19.5 Brass, nickel-plated	7	19.5		
9-8-812-15060	BA15d/20 Brass, nickel-plated	8	20		
9-8-812-15100	BA15d/20 Brass, nickel-plated				
9-8-812-22120	BA15d/20 Brass, nickel-plated, slotted	7	20.5		5600
9-8-812-15070	BA15d/20.5 Brass, nickel-plated				
9-8-812-15080	BA15d/21 Brass, nickel-plated	7	21		

BAYONET AND SCREW CAPS

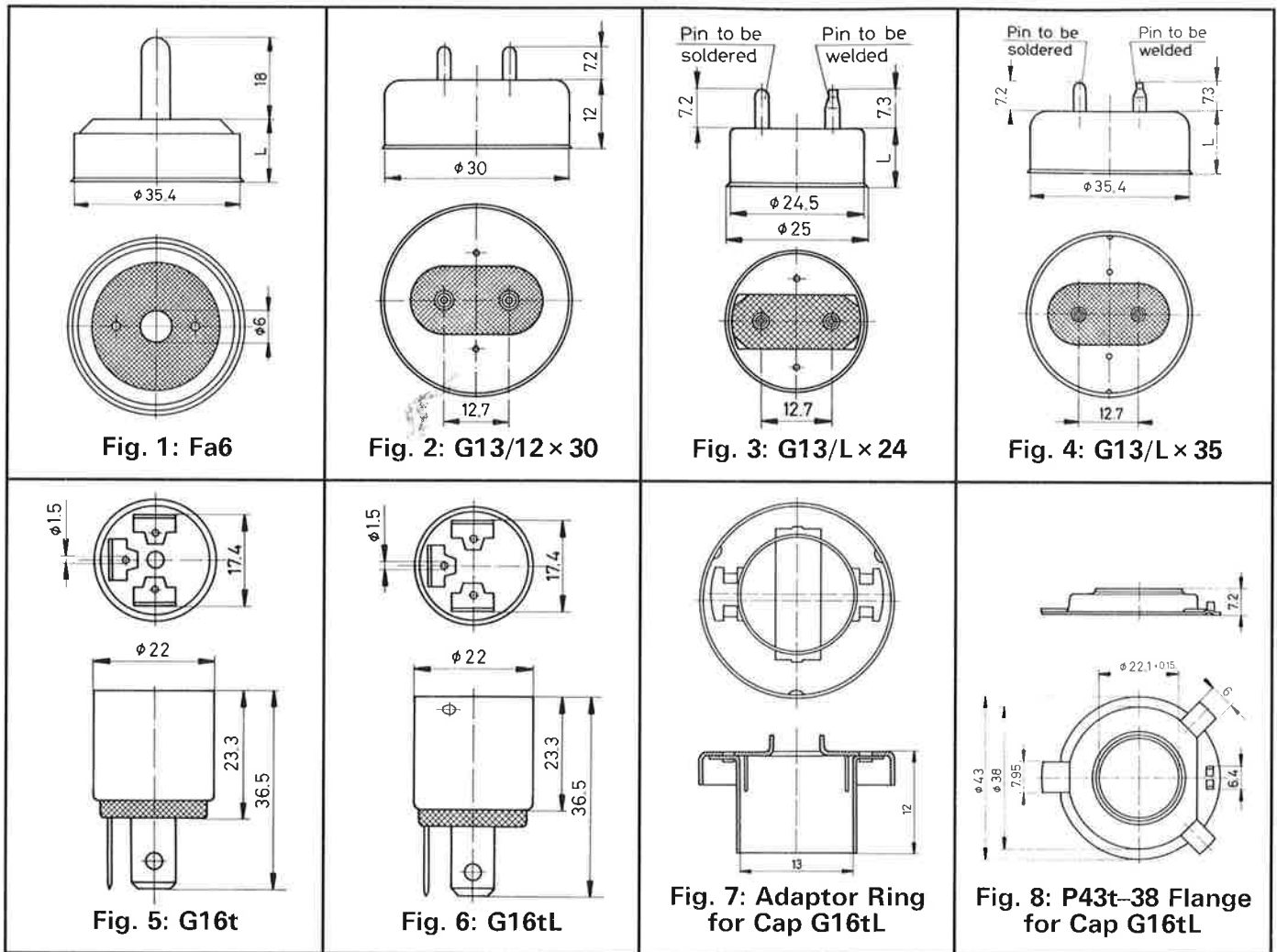


Code No	Type	Fig.	L (mm)	Conforms to	Packing (pcs/box)
9-8-812-15120	BA15s/19 Brass, nickel-plated	1	19	IEC 7004-11A	6 800
9-8-812-15170	BA15s/19.5 Brass, ni-pl., slotted, for Lateral Soldering	2			
9-8-812-15130	BA15s/19.5 Brass, nickel-plated	1	19.5		
9-8-812-15140	BA15s/20 Brass, nickel-plated		20		
9-8-812-15180	BA15s/20 Brass, ni-pl., slotted, for Lateral Soldering	2	20.5		5 600
9-8-812-15150	BA15s/20.5 Brass, nickel-plated	1			
9-8-812-15160	BA15s/21 Brass, nickel-plated	1	21		
9-8-812-15260	BAY15d/19 Brass, nickel-plated	3	19	IEC 7004-11B	6 800
9-8-812-15280	BAY15d/19 Brass, ni-pl., slotted, for Lateral Soldering	4			
9-8-812-15270	BAY15d/20 Brass, nickel-plated	3	20		5 600
9-8-812-15290	BAY15d/20 Brass, ni-pl., slotted, for Lateral Soldering	4			
9-8-812-15360	BAZ15d/19 Brass, nickel-plated, slotted	5	-	-	-
9-8-812-15350	BM15d/19 Brass, nickel-plated	6			
9-8-811-10020	E10/13 Brass	7			
9-8-811-10111	E10/13 Brass, nickel-plated				
9-8-811-14030	E14/25 x 17 Brass	8	-	IEC7004-23	5 500

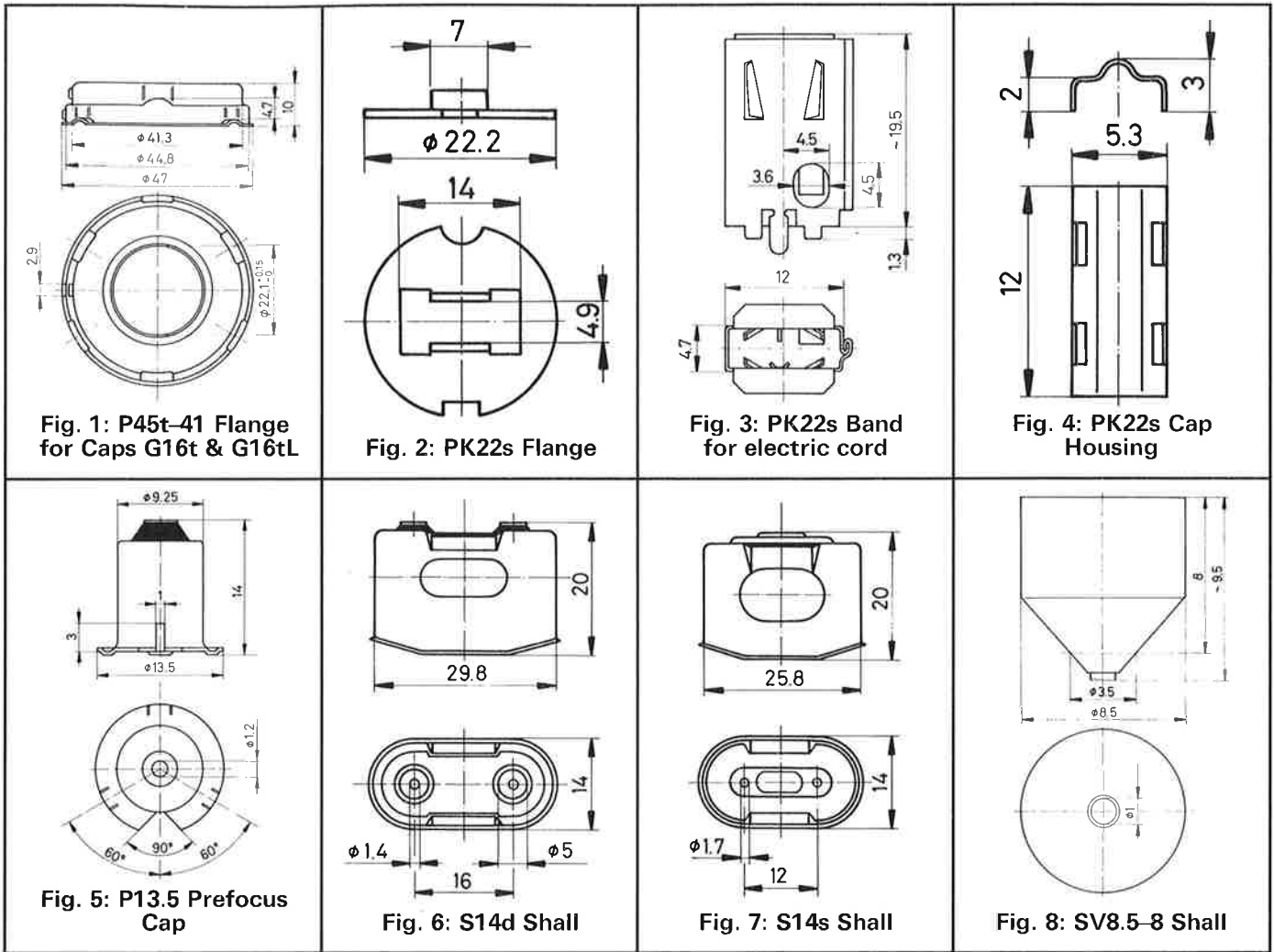


Code No	Type	Fig.	Conforms to	Packing (pcs/box)
9-8-811-26081	E26/24 Brass, Low Vitrit	1	IEC 7004-21A	2500
9-8-811-26030	E26/50 \times 39 Brass, slotted	2	-	528
9-8-811-27091	E27/27 Brass	3	IEC 7004-21	2100
9-8-811-27170	E27/27 Brass, Low Vitrit	4		
9-8-811-27180	E27/27 Aluminium, Low Vitrit			
9-8-811-27100	E27/51 \times 39 Brass, slotted	5	IEC 7004-27	480
9-8-811-40010	E40/45 Brass, nickel-plated, slotted, with Ceramic Isolation	6	IEC 7004-24	
9-8-811-40080	E40/65 \times 50 Brass, nickel-plated, with Ceramic Isolation	7		264
9-8-811-40100	E40/88 \times 70 Brass, nickel-plated, with Ceramic Isolation	8		56

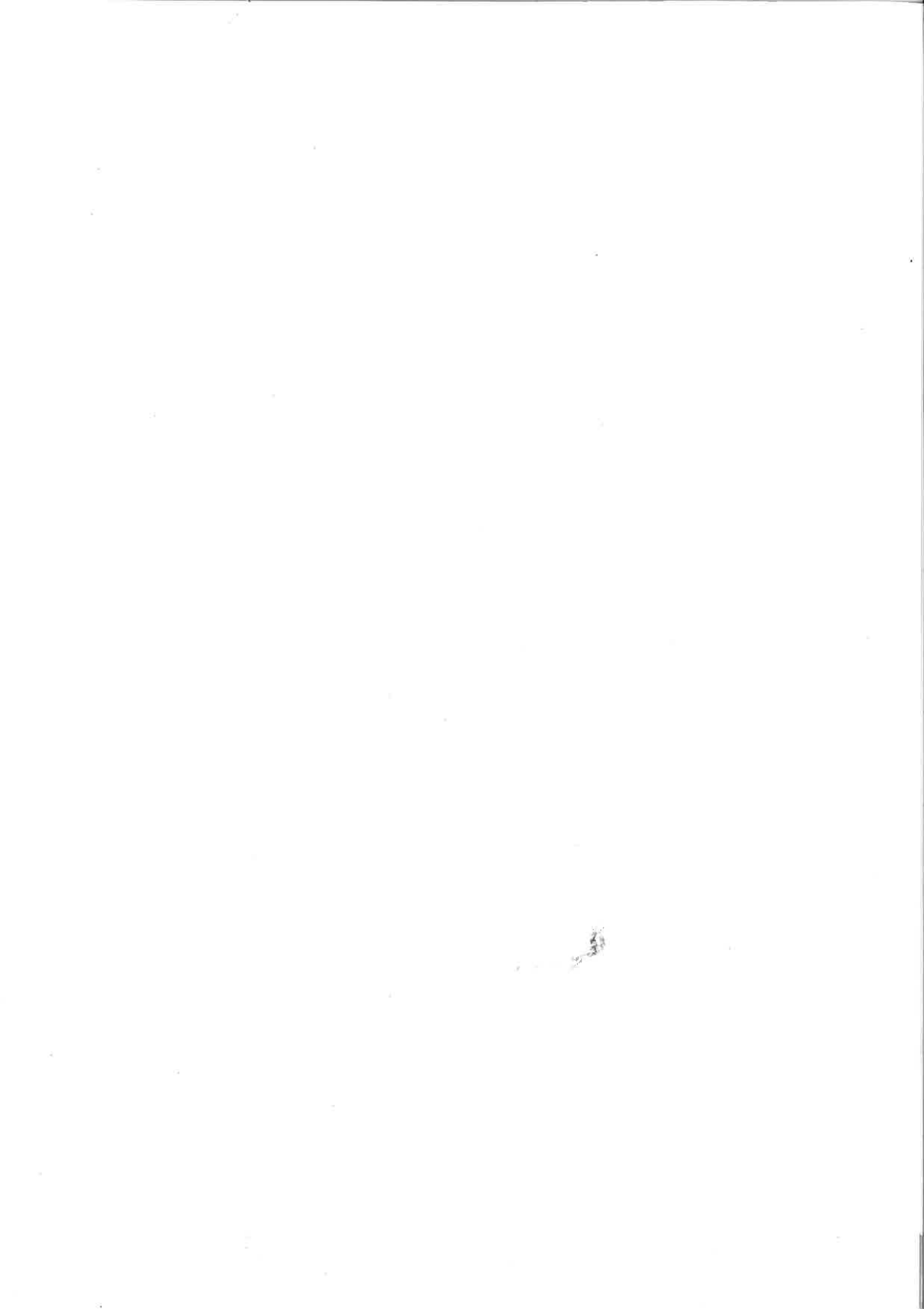
MISCELLANEOUS

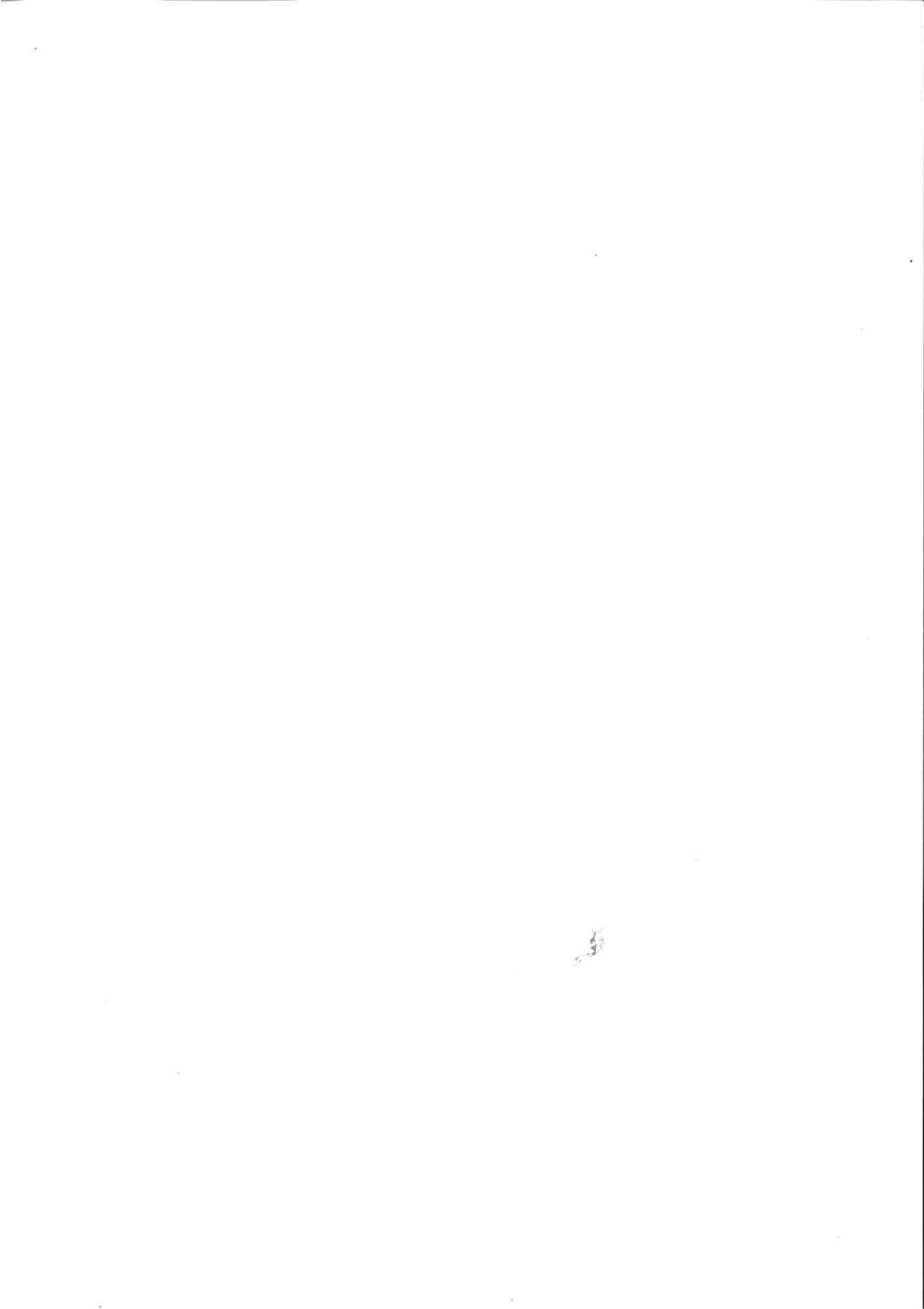


Code No	Type	Fig.	L (mm)	Conforms to	Packing (pcs/box)	
9-8-813-10010	Fa6/11 x 35 Aluminium	1	11	IEC7004-55	1800	
9-8-813-10020	Fa6/12 x 35 Aluminium		12			
9-8-813-10030	Fa6/13 x 35 Aluminium		13			
9-8-813-10670	G13/9 x 24F Aluminium, pin to be soldered	3	9	IEC 7004-51	4500	
9-8-813-10870	G13/9.2 x 35F Aluminium, pin to be soldered	4	9.2		2200	
9-8-813-10680	G13/10 x 24F Aluminium, pin to be soldered	3	10		4500	
9-8-813-10690	G13/11 x 24F Aluminium, pin to be soldered		11			
9-8-813-11270	G13/11 x 24H Aluminium, pin to be welded		11			
9-8-813-10620	G13/11 x 35F Aluminium, pin to be soldered	4	11		2200	
9-8-813-11190	G13/11 x 35H Aluminium, pint to be welded		11			
9-8-813-10630	G13/12 x 35F Aluminium, pin to be soldered		12			
9-8-813-11320	G13/12 x 30F Aluminium, pin to be soldered	2	-		2500	
9-8-813-10640	G13/13 x 35F Aluminium, pin to be soldered	4	13		IEC7004-95A	2200
9-8-813-10060	G16t Brass, nickel-plated	5	-			
9-8-813-10080	G16tL Brass, nickel-plated	6	-		-	5000
9-8-813-10020	Adaptor Ring for Cap G16tL, brass, nickel-plated	7	-			
9-9-123-60240	P43t-38 Flange for Cap G16tL, brass, nickel-plated	8	-	IEC 7004-39A	2600	



Code No	Type	Fig.	Conforms to	Packing (pcs/box)
9-9-123-60600	P45t-41 Flange for Caps G16t and G16tL, brass, nickel-plated	1	IEC 7004-95B	2000
9-9-123-60460	PK22s Flange, brass, nickel-plated	2	-	10000
9-9-122-70380	PK22s Band for electric cord, nickel	3		
9-9-123-60450	PK22s Cap Housing, nickel	4		
9-8-813-11231	P13.5s Prefocus Cap, brass, nickel-plated	5		
9-8-813-11170	S14d Shall, brass	6	DIN 49635	2500
9-8-813-11180	S14s Shall, brass	7		3000
9-8-813-10400	SV8.5-8 Shall, brass, nickel-plated	8	IEC 7004-81	63200





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