



Index of part numbers



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Reference	Catalogue page	Reference	Catalogue page	Reference	Catalogue page
22.223	[10] 14, 15	25.904	[09] 23-25	26.801	[01] 71-73
22.225	[10] 16	25.906	[07] 23-23	26.911	[01] 82
22.223	[10] 20	25.907	[09] 22, 23	26.912	[01] 82
22.220	[10] 16, 17	25.919	[07] 22, 23	26.914	[01] 40, 41
22.230	[10] 20	25.930	[08] 11	26.919	[01] 83
22.231	[10] 20	25.934	[08] 8, 9	26.920	[03] 36, 37
22.235	[10] 18	26.252	[01] 38	26.921	[01] 49, 50
22.234	[10] 18	26.252	[01] 38	26.924	[01] 47, 50
22.240	[10] 17	26.290	[01] 10-12	26.926	[01] 65
22.243		26.290		26.927	[01] 82
	[10] 28, 35		[01] 12, 13		
22.318	[10] 29, 36	26.292	[01] 14, 15	26.928	[01] 44
22.328	[10] 30	26.293	[01] 14, 16	26.930	[03] 38
22.329	[10] 30, 31	26.301	[01] 45, 46	27.230	[02] 20
22.330	[10] 29	26.303	[01] 47	27.240	[02] 9, 10, 15-17, 19, 20
22.347	[10] 35, 36	26.305	[01] 47, 48	27.241	[02] 9, 10
22.501	[08] 12	26.306	[01] 17, 18	27.510	[02] 14
	[10] 27	26.307	[01] 19, 20	27.660	[02] 11-13, 18
22.702	[10] 43	26.308	[01] 21-23	27.661	[02] 11
22.913	[10] 42	26.310	[01] 23	29.304	[10] 32-34, 37
22.917	[10] 38-40	26.311	[01] 25, 26	29.311	[04] 34, 35
22.918	[10] 22-24	26.313	[01] 26, 27	29.401	[04] 37, 38
22.920	[10] 26	26.314	[01] 24	29.403	[04] 37
22.926	[10] 26	26.421	[01] 39	29.404	[04] 38
22.928	[10] 41	26.422	[01] 28-34	29.408	[04] 36
22.945	[10] 42	26.424	[01] 42, 43	29.409	[04] 39
22.959	[10] 25	26.431	[01] 34-36	29.410	[04] 36, 37
22.960	[10] 41	26.440	[01] 36, 37	43.409	[07] 5-8, 13, 14
24.304	[10] 44	26.513	[01] 81	43.416	[07] 5, 7
24.602	[10] 44	26.514	[01] 78, 79	43.420	[07] 10-12
24.901	[10] 45	26.515	[01] 79-81	46.208	[05] 52-54
25.104	[09] 14, 15		[02] 14	46.211	[05] 56
25.105	[09] 18	26.519	[01] 78	46.220	[05] 55
25.106	[09] 19-21	26.607	[01] 76, 77	46.221	[05] 56
25.114	[09] 10-12	26.613	[01] 54	46.411	[05] 9, 30
25.126	[09] 21	26.620	[01] 52-55	46.412	[05] 10, 11, 27, 30
25.244	[09] 8, 9	26.640	[01] 64	46.413	[05] 12-15, 27, 29, 31
25.245	[09] 16, 17	26.641	[01] 61-65	46.414	[05] 12-13, 27, 27, 31
25.245	[07] 18, 17	26.642	[01] 66	46.415	[05] 21-23
25.246	[07] 17	26.660	[01] 59	46.455	[05] 24-26
25.284	[07] 10	26.661	[01] 56, 57	46.901	[05] 24-28
25.701	[04] 10, 11	26.662	[01] 57, 58	46.903	[05] 29
25.702	[04] 13	26.664	[01] 48	46.911	[05] 32
25.703	[04] 17	26.665	[01] 60	47.302	[05] 59
25.704	[04] 16	26.680	[01] 49	/8 040	[06] 17
25.705	[04] 15	26.712	[01] 67, 68	47.313	[06] 8-15
25.803	[08] 22	26.715	[03] 62	47.342	[05] 58
25.804	[08] 23	26.716	[03] 61		[06] 16
25.806	[04] 32	26.717	[03] 17	48.112	[05] 35
25.808	[04] 28-31, 33	26.719	[03] 16-20, 23-25	48.121	[05] 34, 36
25.809	[04] 11, 12, 14	26.720	[03] 21, 22	48.141	[05] 33
25.810	[04] 25-27	26.721	[03] 18, 19	48.212	[05] 34
25.811	[04] 31, 32	26.725	[03] 34, 35	48.221	[05] 33, 36
25.818	[08] 18, 19	26.726	[03] 45-49, 54-59	48.271	[05] 42, 45, 46
25.819	[08] 15, 16	26.727	[03] 42-44	48.281	[05] 37, 40, 43, 44
25.822	[04] 18, 19	26.730	[03] 60	48.511	[05] 33, 36
25.828	[08] 17	26.732	[01] 74, 75	48.581	[05] 38
25.829	[08] 14	26.734	[03] 66	48.900	[05] 39
25.830	[08] 10	26.735	[03] 62,63	49.112	[05] 48
25.834	[08] 8	26.736	[03] 64	49.116	[05] 48
25.835	[04] 20	26.737	[01] 69, 70	49.132	[05] 50
25.836	[04] 21-24	26.738	[03] 14, 15	49.152	[05] 50, 51
25.901	[08] 13	26.745	[03] 26-33	49.351	[05] 47, 49, 50
	[09] 26	26.746	[03] 50-53	49.571	[05] 41, 45
25.904	[08] 11-13	26.750	[03] 65		

26.750

[03] 65

[08] 11-13

25.904

Properties of materials used for BJB products



Note:

Chemical resistance depends on many different application parameters. Consequently, the data given can only serve as guideline values. Assessment of the suitability of BJB products for a specific application is the responsibility of the customer and, where appropriate, should be verified by means of tests under operating conditions. The selection and correct technical application of BJB products is the responsibility of the customer.

Insulating materials for lampholders

Thermal properties	Thermoplastic						
	PC	PBT	PET	PA	POM	PPS	LCP
permissible continuous thermal stress in							
°C to the IEC standards for lampolders	up to 110°C	up to 180°C	up to 210°C	120°C*	approx. 85°C	up to 250°C	up to 270°C

*Limited temperature according to IEC 60598

Chemical properties							
Weak acids	+	+/0	0	-	+	+	+
Strong acids	0/-	-	0/-	-	0/-	-	0
Weak alkalies	-	0	0	+	+	+	+
Strong alkalies	-	-	0/-	-	+/0	-	0/-
Alcohol	0/-	+	+/0	+/0	+	+/0	+/0
Ketones	-	-	0/-	+	0	0	+
Esters	-	0	0/-	+	+/0	0	0
Ether	-	+	0	+	+	+/0	
Hydrocarbon chloride	-	+/-	0/-	+/0	+	0	
Benzol	-	0/-	+	+	0	0	
Cleaning benzin (aroma free)	+	+	+	+	+	+	+
Fuel mixes	0/-	+	+/0	+	+	+	+/0
Mineral oils	+/0	+	+	+	+	+	+
Animal and vegetable oils	+	+	+	+	+	+	

+ = resistant 0 = limited resistance - = not resistant

In applications the chemical resistance is dependent on many parameters, therefore this data can only be sonsidered as recommended value.

Information on material for gaskets of waterproof lampholders for fluorescent lamps

Туре	Oil resistance	Resistance to ozone- and weather	Continuous operating temperature	Resistance to chemicals
CR (Chloropren- /Chlorbutadien Rubber) "Neoprene", "Perbunan"	good	good	100°C	good
EPDM (Ethylen-Propylen- Dien-Copolymerisat Rubber)	moderate	good	130°C	good
Silicon (Methyl-Vinyl-Polysiloxan) "Silicone", "Silopren", "Silastic"	fairly good	good	220°C	moderate
SBR (Styrol-Butadien-Rubber) "Buna-Hüls", "Solprene"	moderate	fairly good	80°C	good-fairly good

Cable Information



Technical properties					
	Insulation material	CIII	555		01
	PVC	Silicone	FEP	PTFE, PFA	Glass silk
	Conductor material				
	Cu/Cu tin plated	Cu tin plated	Cu tin plated	Cu nickel plated	Nickel or Cu with 27% nickel plated
	Temperature resista	nce			
Properties	-30°C - +105°C	-60 °C - +180°C	-100°C - +180°C	-190°C - +250°C	-60°C - +450°C
Thermal resistance	-	+	+	++	+++
Electrical strength	+	++	+++	+++	++
Mechanical strength	0	-	++	++	++
Chemical resistance	-	+	++	++	++
Notched charpy impact strength	-	-	+	+	++
Fracture strength, abrasion resistance	-	0	+	+	++
Abrasion	-	0	+	+	+
Flexibility	+	++	0	0	-
Weather-, ozone- and ageing resistance	-	+	+	+	+
Not inflammable	-	-	+	+	++
Halogen free	-	+	-	-	+
Light resistant (also UV)	-	0	+	+	+
Pyrolysis	-	-	-	-	+
Price	++	+	0	-	
Applicability for ignition voltage	0	++	+	+	++
Usual characteristics (examples)					
Nominal cross section	0.5 mm ²	0.75	mm ²	1.0 mm ²	0.5 mm ²
Outer diameter	2 mm	2.4 mm	1.6-1.8 mm	1.8-2.0 mm	2.5 mm
Nominal voltage		300 V		300 /	' 600 V

0 = adequate + = good ++ = better +++ = very good - = bad -- = very bad

In applications these properties are dependent on many parameters, therefore this data can only be sonsidered as recommended value.

Comparison of AWG cross sections to metric cross sections for multi stranded, fine stranded and finest stranded wires

AWG	approx. mm²
23	0.34
22	0.35
20	0.5
19	0.75
18	1
16	1.5
14	2.5
12	4
10	6

Types of protection against dust and water in accordance with VDE and IEC regulations (extract)



The types of protection for electrical products e.g. protection against foreign bodies, dust and water, are stated in the VDE standards and relevant publications issued by the IEC. For full details see IEC 60529 from which the following is an extract.

Symbol for luminaires according to IEC 60598	Type of protection according to IEC	Abbreviation according to IEC	Brief details of the 1st digit: protection against foreign bodies	degrees of protection 2nd digit: protection against water
No symbol	Ordinary	IP 20	Fingers or similar objects not exceeding 80 mm in length. Solid objects exceeding 12 mm in diameter.	No special protection.
•	Drip proof	IP 21	Fingers or similar objects not exceeding 80mm in length. Solid objects exceeding 12mm in diameter.	Dripping water (vertically falling drops) shall have no harmful effect.
	Rain proof	IP 23	Fingers or similar objects not exceeding 80mm in length. Solid objects exceeding 12mm in diameter.	Water falling as a spray at an angle up to 60° from the vertical shall have no harmful effect.
No symbol	Protected against solid objects greater than 1.0 mm	IP 40	Wires or strips of thickness greater than 1.0 mm. Solid objects exceeding 1.0 mm in diameter.	No special protection.
	Splash proof	IP 44	Wires or strips of thickness greater than 1.0 mm. Solid objects exceeding 1.0 mm in diameter.	Water splashed against the enclosure from any direction shall have no harmful effect.
	Dust proof	IP 50	Ingress of dust is not totally prevented but does not enter in sufficient quantity to interfere with satisfactory operation of the equipment.	No special protection.
	Dust and rain proof	IP 53	Ingress of dust is not totally prevented but does not enter in sufficient quantity to interfere with satisfactory operation of the equipment.	Water falling as a spray at an angle up to 60° from the vertical shall have no harmful effect.
	Dust and splash proof	IP 54	Ingress of dust is not totally prevented but does not enter in sufficient quantity to interfere with satisfactory operation of the equipment.	Water splashed against the enclosure from any direction shall have no harmful effect.
	Dust tight and jet proof	IP 65	No ingress of dust.	Water projected by a nozzle against the enclosure from any direction shall have no harmful effect.
	Dust tight and water tight (immersible)	IP 67	No ingress of dust.	Ingress of water in a harmful quantitiy shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time.

Technical information for embodiment of our products

BJB lampholders are in accordance with IEC regulations and are designed to IEC 60061-2 publication.

Where no electrical data is stated then:

- according to IEC 60238 / VDE 0616 part 1, Edison lampholders E14 rated 250 V / 2 A conform to overload capacity category II, E27 rated 250 V / 4 A voltage and E40 conform to voltage overload capacity category III ,
- according to IEC 60400 / VDE 0616 part 3 fluorescent lampholders and starter holders rated 250 V / 2 A conform to voltage overload capacity category II
- Halogen lampholders designed according to IEC 60838 / VDE 0616 part 5, conform to voltage overload capacity category II
- Bayonet lampholders according to the requirements IEC 61184 / VDE 0616 part 2 conform to voltage overload capacity category II,
- Lampholder outer threads conform to IEC 60399.

When regulations devitate from IEC, e.g. UL, other ratings may be possible. Please consult us before use.

Through our work with the relevant standardisation committees, we ensure our lampholders are developed and tested to the latest specifications.

All technical product drawings shown in this catalogue indicate only the main important dimensions and tolerance values. As a rule only where this is of importance for the intended application.

All measurements stated without tolerances are nominal.

- Limit values are:
- · DIN 16901, size 130 for moulded parts
- DIN ISO 2768-m for metal parts
- DIN 40680, medium for ceramic parts

Weights of single items stated in this catalogue are rounded up or rounded down to the nearest gram, therefore the final weight of a pack quantitiy may differ. The weights shown are only a guide and should not be used for order or shipping specification purposes.

The choice of product and correct technical

embodiment in accordance with the corresponding regulations (e.g. IEC 60598 / VDE 0711, IEC 60335 / VDE 0700) is the sole responsibility of the user.

Specific attention must be given to:

- Temperature limits which must be observed in accordance with the corresponding regulations (e. g. T-markings);
- The necessary creepage and clearance distances as well as distances through insulation;
- The connecting cable and wires, which must have the correct heat and UV resistance, mechanical strength, voltage rating and a current carrying capacity corresponding to the conditions of the intended application;
- Protection against contact with live parts;
- Connectors, e.g. tab terminals, which must be selected in accordance with the requirements of their intended use

(e.g. temperature, current carrying capacity, corrosion resistance);

 The influence of control gear, transformers, starters / ignitors and other circuit components, must always be taken into consideration.

The catalogue also contains technical information, to which attention must be paid during project development, construction and electrical installation or when operating lighting installations. This information must be passed on, e.g. in an installation instruction.

To ensure snap fix products locate correctly and

securely, consideration must also be given to the cut-out and where applicable, attention must be paid to special requirements (e.g. degree of burr, direction of punching, radii, etc.).

Consideration must also be given to the area required around the cut-out, to allow correct insertion. Different components may require to be inserted at different angles.

During fixing, it must be ensured that the fixing surface is correctly sized.

Information regarding light fitting wall thickness, should always be interpreted as inclusive of a coating, unless stated otherwise.

If there is a requirement for one of our products to be embodied in a way other than shown in our catalogue, please contact us.

Attention must also be given to the IEC lamp standards, as well as the technical instructions of the lamp manufacturers in respect of the embodiment and correct operation of lamp.

Our oven lamps are exclusively designed for embodiment within domestic appliances. They are not suitable to be used for general ambient lighting.

In accordance with our policy of continual product development and improvement, we reserve the right to make design modifications.

New technologies have been introduced into the market by so called retrofit lamps; their masses exceed the weights of the original lamps in some cases by a multiple.

For their use in already installed luminaires and lamp holders as well as for newly designed luminaires an increased risk of mechanical damage or a release of the connection can be expected. Examples of particularly vulnerable systems are those that do not provide separation between the mechanical retention forces and the electrical contact-making. With these the retention forces are provided solely via the contact forces.

Due to the amount of information involved in compiling this catalogue, it is not always possible to avoid printer's errors or minor mistakes. Although every care is taken, BJB accepts no responsibility for the accuracy of the contents. If in doubt, or if you require confirmation of specific information, please contact us.

Edition 2016



Stripping and releasing of cables



2,5 ¹² ¹² ¹¹ ⁰ ¹² ¹¹

Stripping of conductors

Pushwire contacts for solid core and tinned wires:

Should other terminations need to be used e.g. ferrules, you will find the relevant information in the product description.



Methods of releasing wires

Pushwire contacts with a key or oval hole in the housing:

The release probe, which we can gladly provide upon request, is placed behind the conducting wire, thereby opening the leaf spring. The wire can be pulled out.

(when pressing the leaf spring down, extreme care must be taken in order that the contact does not become distorted)*.

Simplest way:

Pull out the release probe and the wire at the same time.

Pushwire contacts with a round hole or release slot in the housing:

A release probe or screwdriver is inserted into the release slot and a slight pressure applied to the leaf spring (when pressing the leaf spring down, extreme care must be taken in order that the contact does not become distorted)*. The wire is easily removed.

* Under light fitting production conditions, we recommend not to use unassembled lampholders again.





BJB Numbering system



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		11111	1112221122		
	5,	roduct /pe	Running development number	Version	Colour/ Finish
Example	26.	2	90	.4012	2.50
Position	1 + 2	3	4 + 5	6 - 9	10 + 11
	lampholders p	ush in and ush through ampholders	Development of product type	without locating pin/ without starter holder	white
Position	Product category				
1 + 2	Lampholders			Switches / Terminal blocks / LED	Oven lamps*
	 22 Moulded lampholders 24 Moulded bayonet type lampholders 25 Halogen lampholders and lampholders for discharge lamps 	- indo 27 Fluor - wate	escent lampholders oor use escent lampholders er and dustproof elain lampholders	 43 Switches 46 Terminal blocks 47 Connecting pieces LED - Lighting and connection technology 48 Terminal blocks without fuse 49 Terminal blocks with fuse 	 77 Complete assemblies * see catalogue for domestic appliances
Position	Product type				
3	 22.2 E12, E14, E17 22.3 E26, E27 22.5 Shade rings E14 22.7 Shade rings E27 22.9 Insulating caps 24.3 B22d 24.6 B22d 25.1 Low voltage halogen 25.4 Low voltage halogen 25.4 Low voltage halogen 25.8 Lampholders for mains volta halogen and for discharge lamps 25.9 Low voltage halogen 25.9 Accessories for low voltage Accessories for mains volta Accessories for discharge lampholders 26.1 Compact fluorescent lampholders 26.2 G13 Fluorescent lampholders 	26.4 G12 lan 26.4 Acc lan 26.5 Sta 26.6 G5 lan W4 lan 26.7 Cor lan 26.7 Cor lan 26.7 Acc flu geg 26.8 Flu mps 26.8 Flu lan 26.9 Acc lan 26.1 Acc lan 26.2 Sta 26.4 Acc lan 26.4 Acc lan 26.5 Sta 26.6 G5 lan 26.7 Cor lan 26.7 Acc lan 26.7 Cor lan 26.7 Acc lan 26.8 Sta 26.8 Sta 26.9 St	8 Fluorescent hpholders 8 Fluorescent hpholders ressories for fluorescent hpholders rter holders Fluorescent hpholders .3 x 8.5d Fluorescent hpholders cular fluorescent hpholders ressories for compact prescent lampholders ressories for fluorescent hpholders ressories for fluorescent hpholders ressories for compact pholders ressories for compact pholders ressories for compact rescent lampholders	lampholders 29.3 E26, E27 29.4 E40 29.9 Insulating caps 43.4 Rocker switches 46.2 Capacitor connectors 46.4 Terminal blocks 46.9 Accessories for terminal blocks 46.9 Accessories for terminal blocks 46.9 Accessories for terminal blocks 47.3 LED-Connecting pieces 48.1 Terminal blocks 48.2 Terminal blocks 48.3 Terminal blocks 48.5 Connectors	 49.1 Fused terminal blocks 49.2 Fused terminal blocks 49.3 Fused terminal blocks 49.5 Connectors 77.2 Oven lamps with lamp E14 77.7 Oven lamps with lamp 64, Oven lamps with lamp 64, Oven lamps with lamp 69, Accessories for oven lamps 77.9 Oven lamps with lamp E14, Oven lamps with lamp 64, Oven lamps with lamp 64, Oven lamps with lamp 69, Oven lamps with lamp 69, Oven lamps with lamp 226 78.7 Accessories for oven lamps
Position 10+11	Colours/Finishes 10 Raw steel/ iron 12 Nickel plated 14 Zinc plated	50 white 51 Natur	al colour	80 Black 81 Grey 83 Brown	88 Gold 90 Anthracite
	18 Copper plated, nickel plated21 Brass plated, nickel plated	55 Paint 76 Silver		84 Red 85 Uncoloured	