2. Plug-type connections Cigarette lighters, power sockets and USB sockets



Purpose:

These products are used for various special applications. The power sockets are used to connect a variety of consumers such as lights, fans, cool boxes, phones, laptops, portable refrigerators and coffee makers. Cigarette lighters are offered in a variety of designs.

Advantages:

- Easy to assemble
- Screw thread and clamping sleeve
- Optionally with light
- 12 V and 24 V versions available
- Proven technology for OEMs

2.1 Cigarette lighters, power sockets and USB sockets	Description	Voltage	max. load-carrying capacity as socket	Part number	PU
47,5 62 0 53	Universal cigarette lighter with light type of connection: blade coupling 6.3 mm, fastened with a green clamping sleeve, pierced hole: Ø 28 mm, control panel thickness: max. 2.5 mm				
	Boxed	12 V	10 A	8EZ 008 021-001	1
	Boxed	24 V	5 A	8EZ 008 021-011	1

2. Plug-type connections2.1 Cigarette lighters and power sockets

2.1 Cigarette lighters, power sockets	Description	Voltage	max. load-carrying capacity as socket	Part number	PU
	Universal cigarette lighter without light type of connection: blade coupling 6.3 mm, fastened with a lock washer, pierced hole: Ø 23.5 mm, control panel thickness: max. 2.5 mm				
37.5 53.3					
	Boxed	12 V	10 A	8EZ 008 022-001	1
	Boxed	24 V	5 A	8EZ 008 022-011	1
	Universal SAE standard cigarette lighter with light type of connection: blade coupling 6.3 mm, fastened with a red clamping sleeve, pierced hole: Ø 28 mm, control panel thickness: max. 2.0 mm				
53 45 8 22 8					
	Boxed	12 V		8EZ 008 021-021	1
	Boxed	24 V		8EZ 008 021-031	1
	Universal SAE standard cigarette lighter without light type of connection: blade coupling 6.3 mm, fastened with a hexagon nut, pierced hole: Ø 28 mm, control panel thickness: max. 2.0 mm				
53 37 8.2.2.0					
	Boxed	12 V		8EZ 008 021-041	1
	Boxed	24 V		8EZ 008 021-051	1

2. Plug-type connections2.1 Cigarette lighters and power sockets

2.1 Cigarette lighters, power sockets	Description	Voltage	max. load-carrying capacity as socket	Part number	PU
6,520 37,5	Power socket with light and cover Type of connection: blade coupling 6.3 mm, fixed using a green clamping sleeve, pierced hole: Ø 28 mm, control panel thickness: max. 2.5 mm with 12 V bulb installed, an additional bulb must be ordered for 24 V. Boxed	12 V	15 A	8JB 008 023-011	1
	Power socket unlit with cover Type of connection: blade coupling 6.3 mm, fixed using a green clamping sleeve, pierced hole: Ø 28 mm, control panel thickness: max. 2.5 mm				
37,5 53.3	Boxed	12/24 V	15 A	8JB 008 023-001	1
53	Power socket with light and cover Connection: blade coupling 6.3 mm, fixed using a red clamping sleeve, pierced hole: Ø 28 mm, internal diameter: 21.0 mm				
74	Boxed		20 A with a cable cross-section of 2.5 mm ² 15 A with a cable cross-section		1
	Boxed	24 V	of 1.5 mm²	8JB 008 023-031	1
	Fixing by means of a green clamping sleeve				
	Boxed	24 V		8JB 008 023-041	1

2. Plug-type connections2.1 Cigarette lighters and power sockets

2.1 Cigarette lighters and power sockets	Description	Voltage	max. load-carrying capacity as socket	Part number	PU
53	Power socket unlit, with cover Connection: blade coupling 6.3 mm, fixed using a hexagon nut, red sleeve, pierced hole: Ø 28 mm, internal diameter: 21.0 mm				
37		12/24 V	20 A with a cable cross-section of 2.5 mm ² 15 A with a cable cross-section of 1.5 mm ²	8JB 008 023-051	1
53	Power socket unlit Connection: two blade couplings 6.3 mm, fixed using a black hexagon nut, black sleeve, pierced hole: Ø 28 mm, internal diameter: 21.0 mm cover not printed				
37	Cover not printed	12 / 24 V	20 A with a cable cross-section of 2.5 mm ² 15 A with a cable cross-section of 1.5 mm ²	8JB 008 023- 067	160
	USB socket for installation				
	Connection: cable length: 15 cm, cable cross-section: 1.0 mm^2 , pierced hole: $27.8 \text{ mm} \pm 0.1 \text{ mm}$, panel thickness with threaded bush: $2-8 \text{ mm}$			8JB 004 125-001	1
	USB socket for installation with mounting plate 60 x 44 mm	12 V	Input: 12 V ± 4 V, 800 mA Output: 5 V ± 0.25 VDC	8JB 004 125-011	
	Two power sockets:				
-00	2-pole, max. 20 A with cable cross-section 2.5 mm², max 15 A with cable cross-section 1.5 mm² internal diameter 21 mm, for universal plugs, with mounting plate 60 x 44 mm One USB socket for installation Connection: cable length: 15 cm, cable cross-section: 1.0 mm², pierced hole: 27.8 mm ± 0.1 mm, panel thickness with threaded bush:	12 V	Input: 12 V ± 4 V, 800 mA Output: 5 V ± 0.25 VDC	8JB 004 123-061	1
	2 - 8 mm				

2.2 Universal plug-type connections / 2-pole plug system compliant with ISO 41 65



Purpose:

These products are used for various special applications. Depending on the version, the sockets can be installed both inside and outside the vehicle. The plug system compliant with ISO 4165 and the power sockets are used for the electrical connection of various consumers, such as lights, fans, cool boxes, phones, laptops, portable refrigerators and coffee coffee maker.

Advantages:

- Easy to assemble
- A number of different connection options (screw terminals and blade couplings)
- Sockets with and without cover
- Alloy and plastic designs available
- Sockets compliant with ISO 4165 available with polarity reversal protection through T-plug connection
- $\hfill \blacksquare$ Extensions, battery monitors and adapters for consumers in the range

2.2.1 Universal plugs, sockets, adapters and couplings	Description	Connection	Part number	PU
\$\frac{1}{2}\$	Surface-mount socket 2-pole, no cover, plastic housing internal diameter 21 mm, for universal plugs load-carrying capacity: max. 20 A at 24 V (cable cross-section 2.5 mm²) max. 15 A at 24 V (cable cross-section 1.5 mm²)			
85	Boxed Surface-mount three-way socket 2-pole, plastic housing	2 flat plug connections - 6.3 mm	8JB 004 123-042	5
000	internal diameter 21 mm, for universal plugs load-carrying capacity: max, 20 A at 24 V (cable cross-section 2.5 mm²)			
95	max. 15 A at 24 V (cable cross-section 1.5 mm²)		8JB 004 123-051	1
0 21	Polythene bag		8JB UU4 123-U51	1

2.2.1 Universal plugs, sockets, adapters and couplings	Description	Connection	Part number	PU
	Universal safety plug with ducted strain relief, integrated replaceable 8 A fuse and pulling tool, cable opening 7 mm load-carrying capacity: max. 8 A at 6 – 24 V, cable cross-section around 0.75 mm²			
	Boxed	2 screw terminals up to 2.5 mm²	8JA 007 589-001	10
	Pro-fit packaging	2 screw terminals up to 2.5 mm²	8JA 007 589-002	1
83 	Universal safety plug with LED and screwed strain relief, integrated replaceable 8 A fuse and pulling tool, cable opening 7 mm load-carrying capacity: max. 8 A at 6 – 24 V			
	Boxed	2 screw terminals up to 2.5 mm²	8JA 007 589-032	10
	Pro-fit packaging	2 screw terminals up to 2.5 mm²	8JA 007 589-031	1

2.2.1 Universal plugs, sockets, adapters and couplings	Description	Connection	Part number	PU
83	Universal safety plug with screwed strain relief, no fuse, with pulling tool, cable opening 7 mm			
	Load-carrying capacity: 8 A at 24 V			
	Boxed	2 screw terminals up to 2.5 mm²	8JA 007 589-011	10
	Load-carrying capacity: 16 A at 24 V			
	Boxed	2 screw terminals up to 2.5 mm²	8JA 007 589-021	10
	Universal economy plug			
	cable opening: 5 x 3 mm load-carrying capacity: max. 8 A at 6 – 24 V			
67.7				
	Boxed	2 screw terminals up to 2.5 mm²	8JA 002 252-103	12
	Pro-fit packaging	2 screw terminals up to 2.5 mm ²	8JA 002 252-101	1
	Universal economy plug			
Merc	cable opening: Ø 8 mm load-carrying capacity: max, 8 A at 6 – 24 V			
67.7				
	Boxed	2 screw terminals up to 2.5 mm²	8JA 001 921-102	12

2.2.1 Universal plugs, sockets, adapters and couplings	Description	Connection	Part number	PU
	Universal economy plug with ducted strain relief cable opening: 5 x 3 mm			
63.5	Boxed	2 screw terminals up to 2.5 mm²	8JA 007 158-001	1
	Universal economy plug with ducted strain relief cable opening: Ø 8 mm			
83	Boxed	2 screw terminals up to 2.5 mm²	8JA 004 667-001	10
	Universal right-angle plug with screwed strain relief, with integrated, replaceable 8 A fuse, can be pivoted completely through 180°, with sufficient space for electronics (dimensions for circuit board: 28.5 x 26.5 x 1.5 mm)			
87 22	Boxed	2 screw terminals up to 2.5 mm²	8JA 007 589-042	8
	Pro-fit packaging	2 screw terminals up to 2.5 mm²	8JA 007 589-041	1
	Universal right-angle plug with screw-type strain relief, printed 0-I rocker switch and integrated, replaceable 8 A fuse, can be pivoted completely through 180°			
109				
	Boxed	2 screw terminals up to 1.5 mm²	8JA 007 589-152	8

2.2.1 Universal plugs, sockets, adapters and couplings	Description	Connection/length	Part number	PU
	Universal right-angle plug with screw-type strain relief, integrated 7.5 A ATO blade-type fuse and LED function check			
36.5 32 27	Boxed	2 screw terminals up to 1.5 mm²	8JA 007 589-052	8
	Cable for adapting standard and cigarette lighter sockets to standard sockets			
	Cable: 2 x 0.75 mm ² Universal safety plug with integrated 8 A fuse load-carrying capacity: max. 8 A at 24 V			
83 70 N				
	Polythene bag	4.0 m	8KA 007 589-071	1
	Extension cable for adapting standard and cigarette lighter sockets to cigarette lighter connectors Cable: 2 x 0.75 mm ² Universal safety plug with integrated 8 A fuse load-carrying capacity: max. 8 A at 24 V			
83 58.2 WD 83				
	Polythene bag	4.0 m	8KA 007 589-081	1
	Helical extension cable for adapting standard and cigarette lighter sockets to cigarette lighter connectors			
W. Sand	Cable: 2 x 0.75 mm ² Universal safety plug with integrated 8 A fuse load-carrying capacity: max. 8 A at 24 V			
83 58.2 80 80 80 80 80 80 80 80 80 80 80 80 80				
	Polythene bag	0.6 – 3.0m	8KA 007 589-091	1
	Pro-fit packaging	0.6 – 3.0m	8KA 007 589-092	1

2.2.1 Universal plugs, sockets, adapters and couplings	Description	Length	Part number	PU
	Adapter cable for adapting standard sockets to cigarette lighter connectors			
A STORY	Cable: $2 \times 0.75 \text{ mm}^2$ load-carrying capacity: max. 8 A at 24 V			
55 58.2				
	Polythene bag	0.25 m	8KA 007 589-101	1
	Pro-fit packaging	0. 2 5 m	8KA 007 589-102	1
E III	Adapter for adapting standard sockets to cigarette lighter connectors.			
	Load-carrying capacity: max. 16 A at 12/24 V			
1				
25 58				
+	Polythene bag	93 mm	8KA 007 589-131	1
	Adapter cable for adapting standard and cigarette lighter sockets to two standard sockets			
00	Cable: 2 x 0.75 mm ² Universal safety plug with integrated 8 A fuse load-carrying capacity: max. 8 A at 24 V			
83				
	Pro-fit packaging	0.12 m	8JB 008 032-001	
	Twin coupling for adapting standard and cigarette lighter sockets to two cigarette lighter connectors			
	Cable: 2 x 0.75 mm ² Universal safety plug with integrated 16 A fuse			
58.2	load-carrying capacity: max. 2 x 8 A at 24 V			
	Polythene bag	0.25 m	8JA 007 589-111	1
	Pro-fit packaging	0.25 m	8JA 007 589-112	1

2.2.1 Universal plugs, sockets, adapters and couplings	Description	Length	Part number	PU
00	Twin coupling for adapting standard or cigarette lighter sockets to two cigarette lighter connectors $load\text{-carrying capacity: max.16 A at } 12/24\text{V}$			
65 65				
	Polythene bag	65 mm	8JA 007 589-141	1
109 58.2	Battery monitor – protects the battery from total discharge by switching consumers off in good time, e.g. cool boxes, seat heating, fans and other mobile 12 V devices when voltage is low. Automatic switch-on once operating voltage returns to normal level. Cable: 2 x 0.75 mm² suitable for standard and cigarette lighter sockets, LED function control and short-circuit protection load-carrying capacity: max. 8 A at 12 V			
· · · · · · · · · · · · · · · · · · ·	Polythene bag	1.0 m	8ES 007 589-121	1

2.2.2 2-pole plug system compliant with ISO 4165	Description	Connection	Part number	PU	
	Socket compliant with ISO 4165, light-weight metal pierced hole: Ø 18.5 mm control panel thickness: max. 7 mm load-carrying capacity: max. 8 A at 24 V				
338	Standard socket 2-pole				
	Boxed	1 screw terminal, earth on the housing	8JB 001 946-031	10	
43	Standard socket 2-pole, with additional earth plug				
	Boxed	2 flat plug connections - 6.3 mm	8JB 001 946-041	10	
48	Standard socket 2-pole, with cover				
	Boxed	1 screw terminal, earth on the housing	8JB 001 946-021	10	
	Pro-fit packaging	1 screw terminal, earth on the housing	8JB 001 946-022	1	

2.2.2 2-pole plug system compliant with ISO 4165	Description	Connection	Part number	PU
	Socket 2-pole, with cover			
48				
	Boxed	1 blade coupling 6.3 mm, earth on the housing	8JB 001 946-011	10
	Socket 2-pole, with cover and additional earth plug			
43.5				
	Boxed	2 flat plug connections - 6.3 mm	8JB 001 946-051	10

Socket compliant with ISO 4165, plastic housing

polarity reversal protection through T-plug connection, recommended female connector housing 8JD 008 152-021 (10 pcs.), recommended blade terminal sleeves 8KW 701 235-033 (100 pcs.), pierced hole: \emptyset 18.5 mm, control panel thickness: max. 7 mm, load-carrying capacity: max. 16 A at 6-24 V



2. Plug connections

2.2.2 2-pole plug system compliant with ISO 4165	Description	Connection	Part number	PU
O	Socket 2-pole, with snap cover, cover does not latch, load-carrying capacity max. 16 A at 6 – 24 V			
44.5				
1201	Boxed	2 flat plug connections - 6.3 mm	8JB 001 946-082 8JB 001 946-127	10 50
O.	Socket 2-pole, with arresting cover, (the cover remains in place when opened, the catch is released on insertion so that the cover automatically closes when the plug is removed.) load-carrying capacity max. 16 A at 6 – 24 V			
44.5				
	Boxed	2 flat plug connections – 6.3 mm	8JB 001 946-092	10
	Socket 2-pole, watertight as per IP 67, with unloseable cover, 300 mm lead 2.5 mm², ideally suited for use in boats and near motors			
39.3	temperature range: –40°C to +105°C			
	Boxed	Blade contact and earth sleeve	8JB 001 946-101	1
	Socket 2-pole, with cover			
23 35 R				
	Boxed	2 flat plug connections - 6.3 mm	8JB 004 777-001	5
	Pro-fit packaging	2 flat plug connections - 6.3 mm	8JB 004 777-002	1

2.2.2 2-pole plug system compliant with ISO 4165	Description	Connection	Part number	PU
42 23 35	Socket 2-pole, with cover			
	Boxed	2 screw terminals	8JB 004 777-011	5
70	Coupling for setting up individual extensions for a power supply to electric appliances and lights. load-carrying capacity: max. 16 A at 24 V			
	Pro-fit packaging	2 flat plug connections - 6.3 mm	8JA 007 589-061	1
	Boxed	2 flat plug connections - 6.3 mm	8JA 007 589-062	20
37 8 52.5	Socket 2-pole, without cover control panel thickness: max. 3 mm pierced hole: Ø 23 mm load-carrying capacity: max. 8 A at 6 V – 24 V			
	Boxed	2 flat plug connections 6.3 mm	8JB 002 286-021	10

2.2.2 2-pole plug system compliant with ISO 4165	Description	Connection	Part number	PU
	Socket 2-pole, with cover control panel thickness: max. 2 mm pierced hole: Ø 23 mm load-carrying capacity: max. 8 A at 6 V – 24 V			
S 59 36 36 S	Boxed	2 flat plug connections - 6.3 mm	8JB 002 286-031	10
34.2	Surface-mount socket 2-pole, without cover, plastic housing contacts CuZn			
25	Boxed Pro-fit packaging	2 screw terminals 2 screw terminals	8JB 004 123-001 8JB 004 123-002	5
34.2	Surface-mount socket 2-pole, without cover, plastic housing, designed to be resistant to seawater contacts CuZn nickel plated			
9 <u>25</u>	Boxed	2 screw terminals	8JB 004 123-012	5
67	Surface-mount socket 2-pole, with cover, plastic housing			
24	Boxed	2 flat plug connections – 6.3 mm	8JB 004 123-032	5
	Pro-fit packaging	2 flat plug connections - 6.3 mm	8JB 004 123-031	1

2.2.2 2-pole plug system compliant with ISO 4165	Description	Connection	Part number	PU
Plug compliant with ISO 4165, plastic design				
	Plug without strain relief cable opening: Ø 9.2 mm load-carrying capacity: max. 18 A at 24 V			
8	Boxed	2 screw terminals up to 2.5 mm ²	8JA 002 262-001	10
	Pro-fit packaging	2 screw terminals up to 2.5 mm²	8JA 002 262-003	1
	Plug with screw-type strain relief cable opening: Ø 9.2 mm load-carrying capacity: max. 18 A at 24 V			
57	Boxed	2 screw terminals up to 2.5 mm²	8JA 001 915-001	10
	Plug without strain relief	2 Seew terminals up to 2.5 mm	034 001 713 001	10
	cable opening: Ø 7.5 mm load-carrying capacity: max. 15 A at 24 V			
13 45				
	Boxed	2 screw terminals	8JA 001 915-022	10
8 12 34 S S S S S S S S S S S S S S S S S S S	Plug with solder contacts and ducted strain relief cable opening: Ø 7.5 mm load-carrying capacity: max. 8 A at 24 V			
	Boxed	2 solder contacts	8JA 001 915-032	10