

HIGH CURRENT SPECIFICATIONS

The crown spring connector uses a structure like a crown to connect the plug and the socket achieving the performance of easy insertion with good electrical and mechanical properties.

The crown spring itself is a specially formed, resilient strips of copper alloy which are silver-plated according to their application and are float-mounted in a groove. By its constant spring pressure the crown spring maintains continuous contact with the contact surface, resulting in a low and constant contact resistance.

Crown spring connectors meet a wide range of electrical, thermal and mechanical requirements. They are used for example in power supply applications for electric vehicles, mainframe computers and lightning systems and power distribution systems in industry.

CROWN SPRING ADVANTAGES

Very High Current

The design maximizes the number of contact points and pushes the current carrying capacity to new limits.

Extremely Low Exertion Force

It is especially designed for consumer applications where ease of use is the key consideration.

Long Lasting

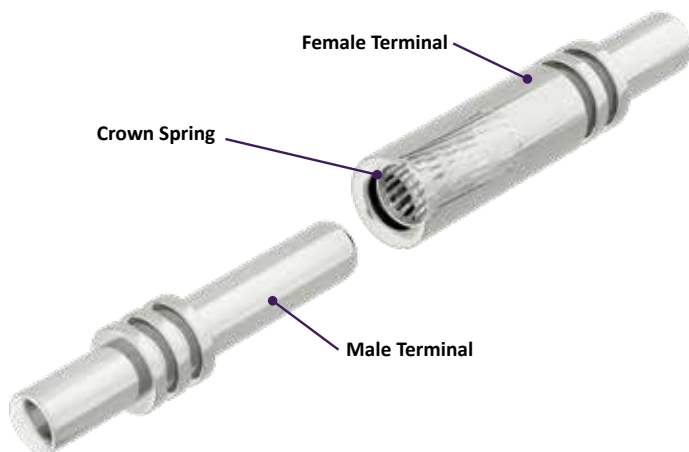
It features more than 20,000 cycles in its 3rd generation design is more stable than anything on the market.

Small Size

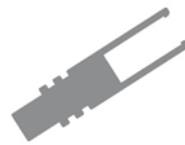
It is not just especially efficient but also allows the design of extremely compact connectors with a high current carrying capacity.

Low Resistance

The automotive and aerospace sector requires solutions for the most challenging environments in which high current connector with very low resistance keep temperatures and energy loss as small as possible.

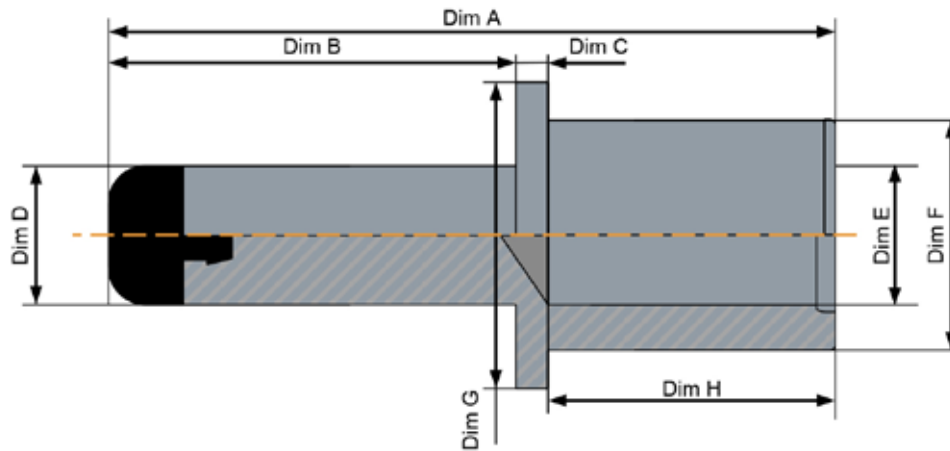


MATERIALS AND SURFACE TREATMENTS



	Crown Spring	Socket	Plug
Material	Copper Alloy with Silver Plating		
Process	Stamping	Turning by Lathe	
Interface	Tail with Screw , Crimping tail or other		
Head			Insulation Cap (optional)

HIGH CURRENT GB TYPE PLUG



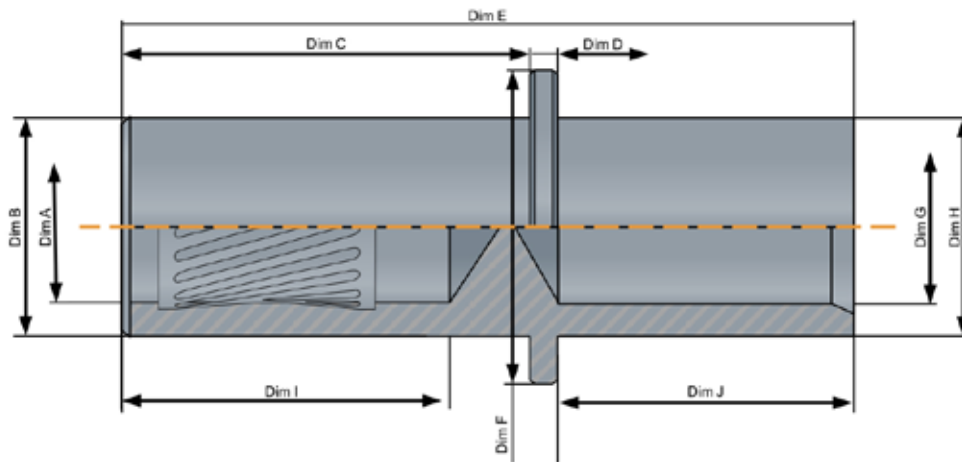
Ordercode	Dimension (mm)								Mechanical Data		Electrical Specification		Insulation Cap	Usage	
	A	B	C	ΦD	ΦE	ΦF	ΦG	H	Force* (N)	Durability (Cycles)	Rated Current (A)	Contact Resistance (μΩ)			
3mm Plug															
SVPC-MCSC-0099-030	25.5	16.5	1.0	3.0	1.2	2.2	6.8	7.0	6	20.000	15	200	no	GB/T 20234.2/3	
SVPC-MCSC-0135-030	23.5	14.5													
6mm Plug															
SVPC-MCSC-0100-060	37.5	28.5	1.0	6.0	2.2	3.2	9.8	8.0	14	20.000	30	150	yes	GB/T 20234.2/3	
SVPC-MCSC-0101-060															no
SVPC-MCSC-0134-060					3.3	5.3									yes
SVPC-MCSC-0133-060															no
12 mm Plug															
SVPC-MCSC-0112-120	48.0	30.5	1.5	12.0	8.4	12.2	17.2	16.0	30	20.000	250	80	yes	GB/T 20234.3	

*Withdrawal Force & Insertion Force

All information is based on statements from our suppliers. The information is only guaranteed by explicit confirmation from N&H. Technical changes reserved.

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HIGH CURRENT GB TYPE SOCKET

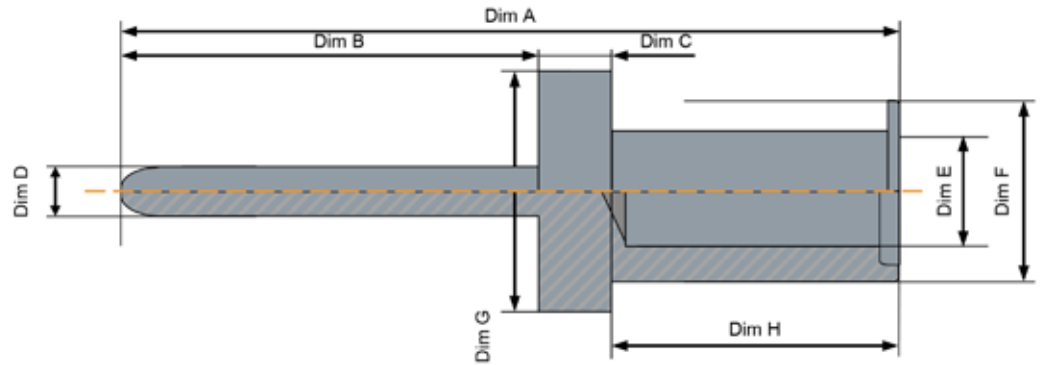


Ordercode	Dimension (mm)										Mechanical Data		Electrical Specification		Usage
	ΦA	ΦB	C	D	E	ΦF	ΦG	ΦH	I	J	Force (N)	Durability (Cycles)	Rated Current (A)	Contact Resistance (μΩ)	
3mm Socket															
SVPC-MCSC-0102-030	3.1	7.0	32.0	1.0	41.0	8.3	1.2	2.2	22.0	7.0	6	20.000	15	200	GB/T 20234.2
SVPC-MCSC-0107-030		42.0	51.0		33.0	GB/T 20234.3									
SVPC-MCSC-0108-030		5.8	32.0		7.3	23.0			GB/T 20234.2						
SVPC-MCSC-0109-030		41.0	2.3		3.2	23.0			8.0						GB/T 20234.2
6mm Socket															
SVPC-FCSC-0103-060	6.1	10.0	32.0	1.0	41.0	11.3	2.3	3.2	23.0	8.0	14	20.000	30	150	GB/T 20234.2
SVPC-FCSC-0104-060		9.8	42.0		51.0	13.0	5.6	9.0	33.0	12.0					GB/T 20234.3
SVPC-FCSC-0113-060		10.0	32.0		46.0	11.3	3.0	5.3	23.0	8.0					GB/T 20234.2
SVPC-FCSC-0116-060		41.0	1.2		2.2		GB/T 20234.2								
12 mm Socket															
SVPC-FCSC-0105-120	12.1	15.8	42.0	1.0	83.0	18.0	8	12.0	33.0	25.0	30	20.000	250	80	GB/T 20234.3

HIGH CURRENT SAE TYPE

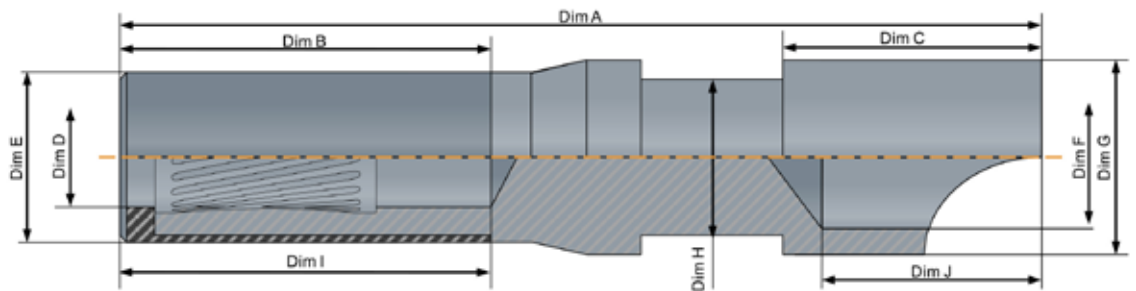


PLUG



Ordercode	Dimension (mm)								Mechanical Data		Electrical Specification		Usage
	A	B	C	ΦD	ΦE	ΦF	ΦG	H	Force (N)	Durability (Cycles)	Rated Current (A)	Contact Resistance (μΩ)	
SVPC-MCSC-0156-015	22.2	12.0	2.0	1.5	1.6	3.0	6.0	8.0	4	10.000	2	1.000	SAE J1772
SVPC-MCSC-0157-028	37.0	24.0		2.8	3.5	5.0	8.8	10.0	6		40	500	
SVPC-MCSC-0158-036	34.0	21.0		3.6					8		80	300	

SOCKET



Ordercode	Dimension (mm)										Mechanical Data		Electrical Specification		Usage
	A	B	C	ΦD	ΦE	ΦF	ΦG	ΦH	I	J	Force (N)	Durability (Cycles)	Rated Current (A)	Contact Resistance (μΩ)	
SVPC-FCSC-0129-015	36.8	15.2	7.55	1.65	3.1	1.98	2.62	1.7	12.9	6.5	4	10.000	2	1.000	SAE J1772
SVPC-FCSC-0130-028	38.4	19.9	11.25	2.95	4.9	5.33	6.3	4.0	18.7	10.2	6		40	500	
SVPC-FCSC-0131-036	36.2	14.5	10.15	3.75	6.73	5.9	7.65	6.2	14.6	9.15	8		80	300	
SVPC-FCSC-0136-036			6.75			3.85	4.85					40			

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