

SolConeX extra-low voltage coupling

Series 8573/14



- > Zone 1 and 21
- > IP66
- > Wide ambient temperature range (-50 to +60 °C)
- > IEC/EN 60309-1/2 compatible
- > For extra-low voltages
- > 2- and 3-pole version

www.stahl.de



18659E00



E3

The SolConeX series of plug and socket devices is continuously being further developed according to the latest standards. Furthermore, our customers' requirements for their applications have been integrated into our innovative SolConeX Compact series.

Due to its extremely small dimensions, this series enables direct installation / mounting in machines and systems.

Direct insertion and locking by way of an integrated rotary switch ensures high connection reliability and reliable voltage disconnection with full AC-3 switching capability.

The high IP66 degree of protection ensures safe use and 100% functional safety in every application position.

The sealed plug pins reliably prevent the ingress of dirt or water into the connection chamber even when the plug is not plugged in.

The high quality plastics and sealing materials enable use even in extreme offshore, onshore, maritime, or pharmaceutical applications, in the demanding, freezing conditions of the Arctic Ocean or under direct sunlight in the desert.

Zone	ATEX / IECEx					
	0	1	2	20	21	22
For use in		x	x		x	x


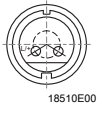


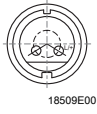

WebCode 8573C

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Selection Table

Version	No. of poles	Voltage [V]	Colour code	Frequency Hz	h	Order number	Art. no.	Weight kg
SolConeX extra-low voltage coupling 	 18510E00	20 ... 25	violet	50 and 60	00	8573 / 14-200	243182	0.300
		20 ... 25	violet	DC	10	8573 / 14-210	243188	0.300
		20 ... 25	green	400-500	11	8573 / 14-211	243186	0.300
		20 ... 50	green	300	02	8573 / 14-202	243183	0.300
		20 ... 50	green	400	03	8573 / 14-203	243184	0.300
		20 ... 50	green	100-200	04	8573 / 14-204	243185	0.300
		40 ... 50	light grey	50 and 60	12	8573 / 14-212	243187	0.300
	18654E00  06199E00 3 P	20 ... 25	violet	50 and 60	00	8573 / 14-300	243175	0.300
		20 ... 25	green	400-500	11	8573 / 14-311	243179	0.300
		20 ... 50	green	300	02	8573 / 14-302	243176	0.300
		20 ... 50	green	400	03	8573 / 14-303	243177	0.300
		20 ... 50	green	100-200	04	8573 / 14-304	243178	0.300
		40 ... 50	light grey	50 and 60	12	8573 / 14-312	243180	0.300
		SolConeX extra-low voltage plug 	 18509E00	20 ... 25	violet	50 and 60	00	8573 / 12-200
20 ... 25	violet			DC	10	8573 / 12-210	243203	0.300
20 ... 25	green			400-500	11	8573 / 12-211	243201	0.300
20 ... 50	green			300	02	8573 / 12-202	243198	0.300
20 ... 50	green			400	03	8573 / 12-203	243199	0.300
20 ... 50	green			100-200	04	8573 / 12-204	243200	0.300
40 ... 50	light grey			50 and 60	12	8573 / 12-212	243202	0.300
18656E00  09193E00 3 P	20 ... 25		violet	50 and 60	00	8573 / 12-300	243190	0.300
	20 ... 25		green	400-500	11	8573 / 12-311	243194	0.300
	20 ... 50		green	300	02	8573 / 12-302	243191	0.300
	20 ... 50		green	400	03	8573 / 12-303	243192	0.300
	20 ... 50		green	100-200	04	8573 / 12-304	243193	0.300
	40 ... 50		light grey	50 and 60	12	8573 / 12-312	243195	0.300

Explosion Protection

Global (IECEx)

Gas and dust	IECEx PTB 16.0029 Ex db eb IIC T6 Gb Ex tb IIIC T70 °C Db
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Europe (ATEX)

Gas and dust	PTB 16 ATEX 1017 ⊕ II 2 G Ex db eb IIC T6 Gb ⊕ II 2 D Ex tb IIIC T70 °C Db
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Certifications and certificates

Certificates	IECEx, ATEX
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Technical Data

Electrical data

Rated operational voltage	max. 50 V
Frequency	0 to 60 Hz (for frequencies > 100 Hz reduction to 12 A required)
Voltage tolerance	-10 ... +6 %
Utilization category	AC-3: 50 V / 16 A DC-1: 50 V / 16 A DC-13: 50 V / 16 A
Rated insulation voltage	550 V
Back-up fuse	
without thermal protection	16 A gG
with thermal protection	35 A gG

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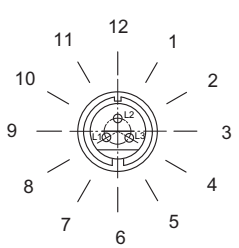
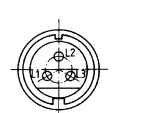
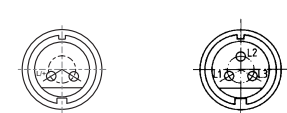


Technical Data


Ambient conditions			
Ambient temperature	-50 to +60 °C -40 to +60 °C, optional (silicone-free)		
	Temperature class	Current	Ambient temperature
	T6	16 A [2.5 mm ²]	Ta = 40 °C
		12 A [2.5 mm ²]	Ta = 55 °C
		10 A [2.5 mm ²]	Ta = 60 °C
Mechanical data			
Number of poles	2 P / 3 P		
Enclosure material	Polyamide, glass fibre reinforced		
Degree of protection	IP66 acc. to IEC/EN 60529		
Connection type	Screw terminals		
Connection cross-section	Solid	1 x 0.75 mm ² to 2 x 4 mm ²	
	Finely stranded	1 x 0.75 mm ² to 2 x 4 mm ²	
	Finely stranded with core end sleeve	1 x 0.75 mm ² to 2 x 4 mm ²	
Weight	0.300 kg		
Service life	> 5,000 switching cycles (electrical and mechanical) acc. to IEC/EN 60309-1		
Tightening torque	Terminals: 1.2 Nm Enclosure screws: 1.0 Nm		
Cable entries			
Coupling and plug cable diameter	8 to 18 mm		
	Ring 1 + 2 + 3 + 4	8 to 11 mm	
	Ring 2 + 3 + 4	11 to 15 mm	
	Ring 3 + 4	15 to 18 mm	

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Arrangement of earth contact sleeves

<p>Example: Clock hour position, Front view of socket</p>  <p>16708E00</p>	<p>Example: Clock hour position</p>  <p>06199E00 40 - 50 V = 12 h</p>	<p>Marking of connections Front view of socket</p>  <p>18510E00 06199E00 2 P 3 P</p>
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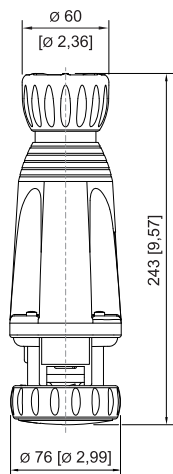
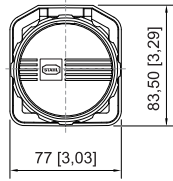
Accessories and Spare Parts

Designation	Figure	Description	Art. no.	Weight kg
Dust cover	 18324E00	Retrofittable dust protection for 2-/3-pole sockets.	257439	0.100

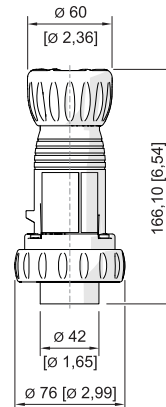
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Dimensional drawings (all dimensions in mm [inches]) – Subject to modifications



8573/13 SolConeX extra-low voltage coupling



17089E00

17094E00

8573/12-... SolConeX extra-low voltage plug

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.