

SolConeX coupling Series 8572/14



- > Rotary switch mechanism
- > Integrated locking device
- > Zone 1 and 21
- > IP66
- > Wide ambient temperature range (-50 to +65 °C)
- > IEC/EN 60309-1/2 compatible
- > Full AC-3 switching capacity

E3



18666E00

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 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 guarantees 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 disconnected. 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.

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

WebCode 8572B



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Selection Table

Version	No. of poles	Voltage	Colour code	Frequency	h	Order number	Art. no.	Weight
		[V]		Hz				kg
SolConeX coupling  18662E00	 16992E00 2 P + $\perp$	>50	green	> 300-500	02	8572/14-302	242345	0.380
		50 ... 110	light grey	DC	03	8572/14-303	242344	0.380
		200 ... 250	blue	50 and 60	06	8572/14-306	242341	0.380
		According to isolating transformer	blue	50 and 60	12	8572/14-312	242346	0.380
	 16992E00 1 P + N + $\perp$	100 ... 130	yellow	50 and 60	04	8572/14-304	242343	0.380
		277	light grey	60	05	8572/14-305	242342	0.380
SolConeX plug  10329E00	 09195E00 2 P + $\perp$	>50	green	>300-500 ^{*)}	02	8570/12-302	257776	0.400
		50 ... 110	light grey	DC	03	8570/12-303	257777	0.400
		200 ... 250	blue	50 and 60	06	8570/12-306	257780	0.400
		According to isolating transformer	blue	50 and 60	12	8570/12-312	257781	0.400
	 09195E00 1 P + N + $\perp$	100 ... 130	yellow	50 and 60	04	8570/12-304	257778	0.400
		277	light grey	60	05	8570/12-305	257779	0.400

Explosion Protection

Design	SolConeX coupling	SolConeX plug
Global (IECEx)		
Gas and dust	IECEx PTB 16.0027 Ex db eb IIC T6 Gb Ex tb IIIC T 70 °C Db	IECEx PTB 05.0023 Ex db eb IIC T6 Gb Ex tb IIIC T80 °C Db
Europe (ATEX)		
Gas and dust	PTB 16 ATEX 1015 Ex II 2 G Ex db eb IIC T6 Gb Ex II 2 D Ex tb IIIC T 70°C Db	PTB 03 ATEX 1227 Ex II 2 G Ex db eb IIC T6 Gb Ex II 2 D Ex tb IIIC T80 °C Db
Certifications and certificates		
Certificates	IECEx, ATEX	IECEx, ATEX

Technical Data

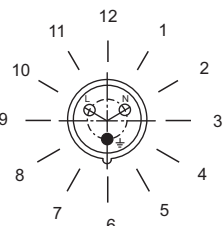
Electrical data	
Rated operational voltage	max. 277 V AC / 110 V DC
Frequency	0 to 60 Hz (for frequencies > 100 Hz, reduction to 12 A required)
Voltage tolerance	-10 ... +6 %
Utilization category	AC-3: 277 V / 16 A DC-1: 110 V / 16 A DC-13: 50 V / 16 A
Rated operational power	4 kW 220 V / 230 V / 240 V
Rated insulation voltage	550 V
Back-up fuse	
without thermal protection	16 A gG
with thermal protection	35 A gG

Technical Data

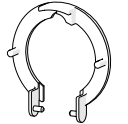
Ambient conditions			
Ambient temperature	-50 to +65 °C -40 to +65 °C, optional (silicone-free)		
	Temperature class	Current	Ambient temperature
	T6	16 A [2.5 mm ²]	Ta = 45 °C
		12 A [2.5 mm ²]	Ta = 55 °C
		10 A [2.5 mm ²]	Ta = 65 °C
Mechanical data			
Number of poles	2 P + $\frac{1}{2}$ / 1 P + N + $\frac{1}{2}$		
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	0.380 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	

E3

Arrangement of Earth Contact Sockets

Example: Clock hour position, Front view of socket	Example: Clock hour position	Marking of connections Front view of socket	
			
18442E00	18609E00 200 - 250 V = 6 h	18609E00 2 P + $\frac{1}{2}$	18443E00 1 P + N + $\frac{1}{2}$

Accessories and Spare Parts

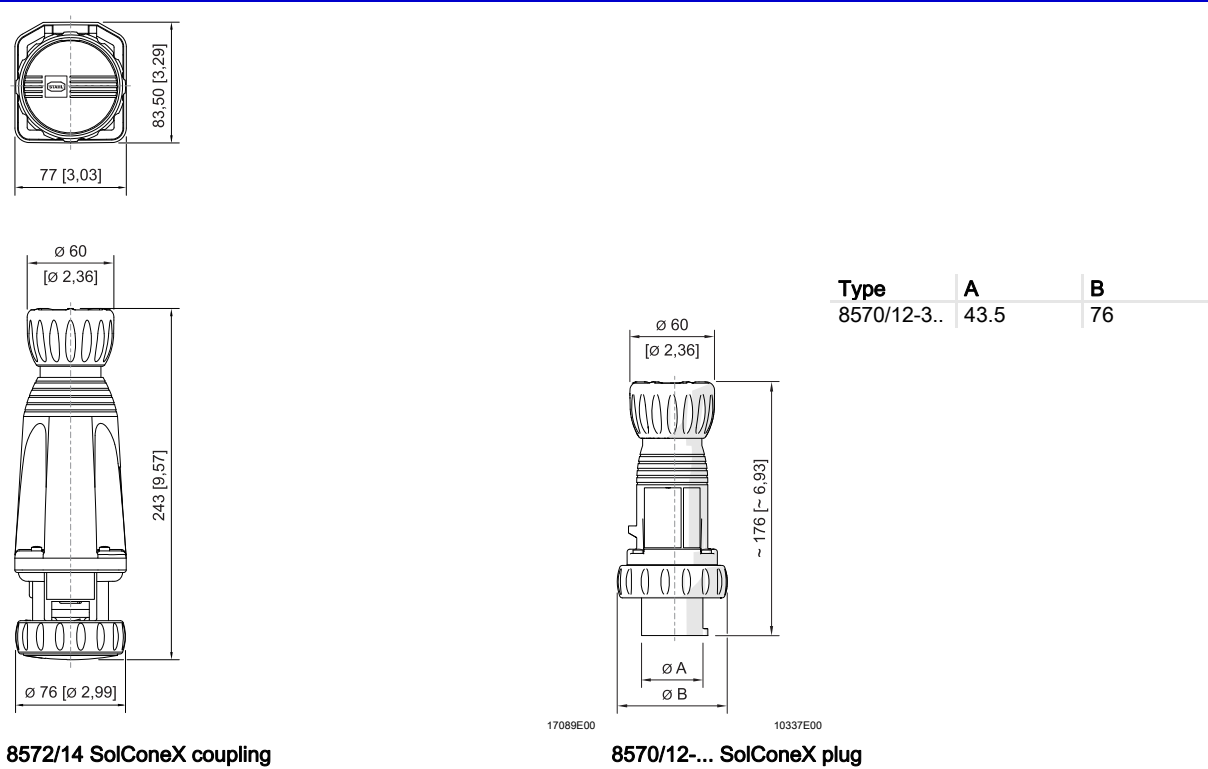
Designation	Figure	Description	Art. no.	Weight
Protective cap		for plug 3 pole	150496	kg 0.043
Dust cover		Retrofittable dust protection for 3-pole sockets.	257438	

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



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8570/12-... SolConeX 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.