



SICL40

Individually Insulated Conductor Line System



STEMMANN PRODUCTS

QUALITY MADE IN GERMANY

The SICL40 System

Our product line in the range of the individually insulated conductor lines consists of the types SICL10, SICL20, SICL25 and SICL40.

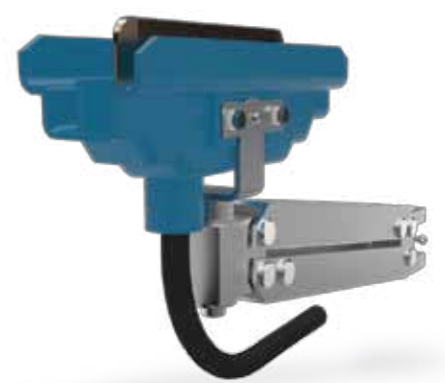
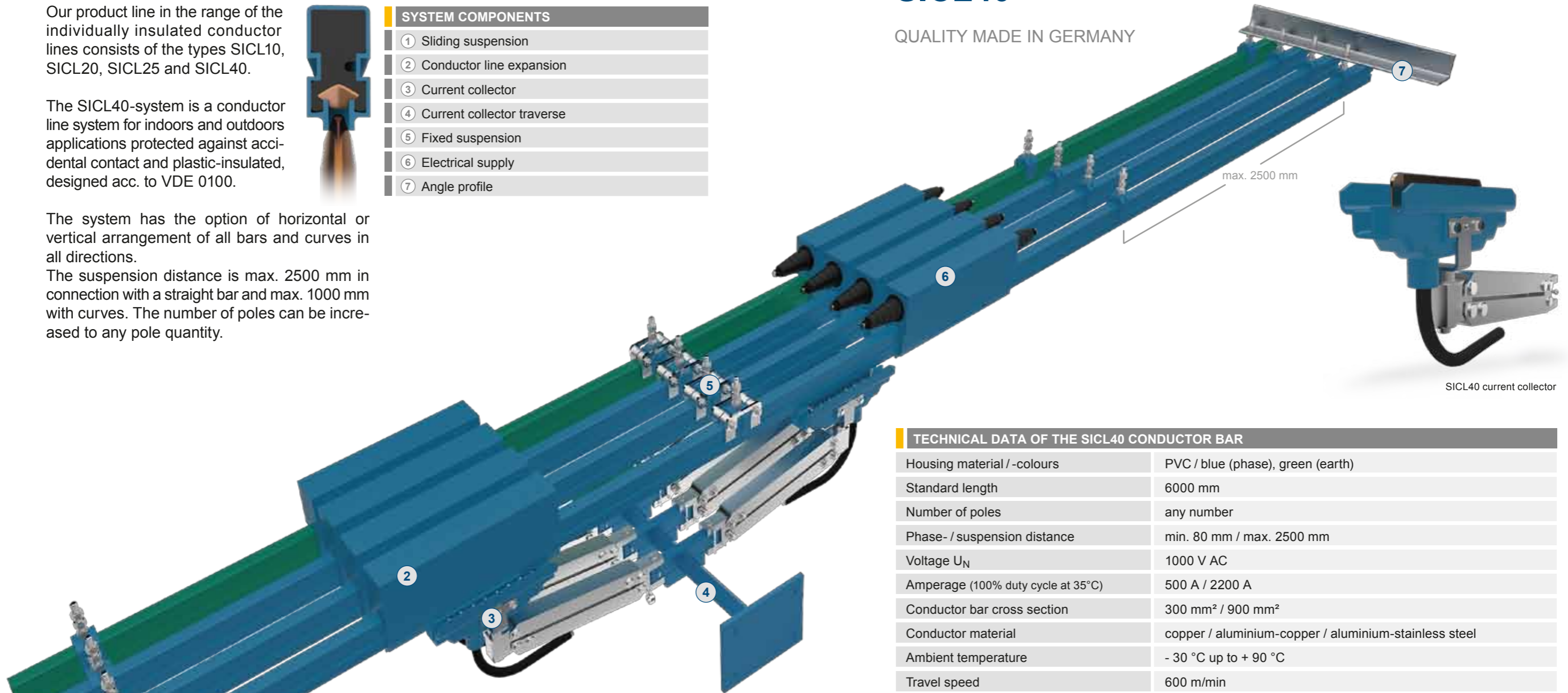
The SICL40-system is a conductor line system for indoors and outdoors applications protected against accidental contact and plastic-insulated, designed acc. to VDE 0100.

The system has the option of horizontal or vertical arrangement of all bars and curves in all directions.

The suspension distance is max. 2500 mm in connection with a straight bar and max. 1000 mm with curves. The number of poles can be increased to any pole quantity.



SYSTEM COMPONENTS	
1	Sliding suspension
2	Conductor line expansion
3	Current collector
4	Current collector traverse
5	Fixed suspension
6	Electrical supply
7	Angle profile



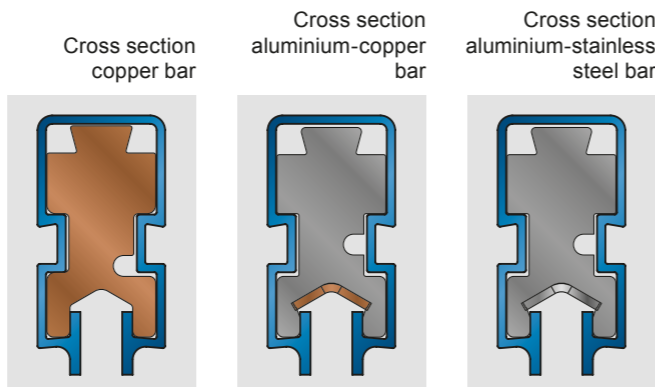
SICL40 current collector

SICL40

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TECHNICAL DATA OF THE SICL40 CONDUCTOR BAR

Housing material / -colours	PVC / blue (phase), green (earth)	
Standard length	6000 mm	
Number of poles	any number	
Phase- / suspension distance	min. 80 mm / max. 2500 mm	
Voltage U_N	1000 V AC	
Amperage (100% duty cycle at 35°C)	500 A / 2200 A	
Conductor bar cross section	300 mm ² / 900 mm ²	
Conductor material	copper / aluminium-copper / aluminium-stainless steel	
Ambient temperature	- 30 °C up to + 90 °C	
Travel speed	600 m/min	
Protection class (DIN VDE 0470 p.1/EN60529)	IP23	
Electrical data	dielectric strength (DIN 53481)	> 22.4 kV / mm
	tracking (IEC 60112)	CTI 600 - 1.1
	special contact resistance (IEC 60093)	> 8x10 15 Ohm x cm
	surface resistance (IEC 60093)	> 2x10 13 Ohm x cm
Smallest curve radius	≥ 2500 mm (horizontal / vertical)	
Operation- / application area	indoors / outdoors	
Fire protection equipment	UL94 / V0 (flame retardant / self-extinguishing)	
Protection from accidental contact	VDE 0470 / VDE 0100	
Air- and leakage distances	VDE 0110	
Resistant against	fuel, mineral oil, greases, sodium hydroxide (< 25 %) hydrochloric acid (concentrated), sulphuric acid (< 50 %)	



The SICL40 system in practical application

We offer our SICL40 conductor bars, like all SICL types, in standard delivery lengths of 6000 mm. Shorter lengths are available on customer request. The system is ready-made for our connection technology.

The current collectors are available as individual components or pre-assembled on a traverse as multi-pole version.

Numerous and well-designed components make the strengths of our SICL40 system in various applications.

APPLICATION AREAS

Electrification of RTGs

Stinger systems

Crane systems



SICL40 system, eRTG application area

According to the intended use of the profiles we manufacture suspensions as special components and offer devices like sliding contact controls and conductor bar cleaning systems.



SICL40 conductor bar, stinger system application area



SICL40 system, overhead crane

INDUSTRIAL PRODUCTS · INDUSTRIEPRODUKTE



CABLE FESTOON SYSTEMS
LEITUNGSWAGEN-SYSTEME



CABLE REELS
LEITUNGSTROMMELN



SLIP RING ASSEMBLIES
SCHLEIFRINGÜBERTRAGER



CONDUCTOR LINES
SCHLEIFLEITUNGEN

RAILWAY PRODUCTS · BAHNPRODUKTE



ROOF-MOUNTED PANTOGRAPHS
DACHSTROMABNEHMER



3rd RAIL CURRENT COLLECTORS
DRITTE-SCHIENE-STROMABNEHMER



frost® GROUND CONTACTS
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STINGER SYSTEMS
STINGER-SYSTEME



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