Applications

■ Due to high technology automation systems getting increasingly faster in all areas of production and applications, industrial customers are demanding innovative products from the cable industry. Together with our customers, SAB BRÖCKSKES is constantly developing and improving our cable track cables to keep this product range up to date. Cable track cables are produced especially for applications with highly flexible bending stress. One of our top products within this product range is our type S 980 CP. With UL recognition and CSA approval, this cable reflects the high quality standard of our cable track cables.

■ Our highly flexible cables are suitable for constant use with extremely high bending stress during multiple-shift operation. You can use our advanced cable technology in order to enhance the efficiency of your machines and appliances and, therefore, always be one step ahead of your competitors.

■ Application of PVC cable track cables

SAB PVC cable track cables are intended for flexible use, e.g. control or data cables in cable tracks installed on machine tools and robot devices, wherever energy supply and signals are transmitted to machines and appliances that are in permanent movement.

Exemplary applications:

SD 86/S 86 **SD 86 C/S 86 C** **SD 86 C TP**	Wood working and packaging machines, assembly lines, automation plants
S 900 **SD 960/S 960/S 960 red** **SD 960 CY/S 960 CY/S 960 CY red** **SD 960 CY TP**	Wood working and packaging machines, assembly lines, automation plants, also for the American market

■ Application of PUR/TPE cable track cables

SAB PUR/TPE cable track cables are intended for continuously flexing use, e.g. in cable tracks, control or data cables installed on industrial robots, automation plants, robot devices, automation systems, mostly where very high flexibility, abrasion resistance, notch resistance, oil and chemical resistance are requested. The cables are suitable for permanent use with millions of bending cycles during multiple-shift operation. The cut resistant and low-adhesion PUR/TPE sheath guarantees higher service life and high efficiency.

Exemplary applications:

SD 200/S 200 **SD 200 C/S 200 C** **SD 200 C TP**	Pick-n-place, material handling and automation technologies, wood working and packaging machines, industrial robot construction, car manufacturing industry, high rack construction
S 900 P/S 910 P/S 910 CP **SD 960 P/S 960 P** **SD 960 CP/S 960 CP** **SD 960 CP TP**	Pick-n-place, material handling and automation technologies, wood working and packaging machines, car manufacturing industry, press manufacturing
SD 980 P/S 980 P **SD 980 CP/S 980 CP** **SD 980 CP TP**	Pick-n-place, material handling and automation technologies, wood working and packaging machines, industrial robot construction, car manufacturing industry, high rack construction

Selection index

	Cable type	S 900	S 900 P	S 910 P	S 910 CP	SD 960	S 960/ S 960 red	SD 960 CY	S 960 CY/ S 960 CY red	SD 960 CY TP	SD 960 P	S 960 P	SD 960 CP	S 960 CP	SD 960 CP TP
Application	Data cables					x		x		x	x		x		x
	Control cables	x	x	x	x		x		x			x		x	
	Bare copper strands, extra fine wires					x		x		x	x		x		x
	Screened				x			x	x	x			x	x	x
	No coupling of individual signals by twisted-pair cabling,low influence on neighbored cable circuits, effective suppression of crosstalk and side-to-side crosstalk effects									x					x
Temperature range static*	+ 90°C														
	+ 80°C														
	+ 70°C														
	– 30°C														
	– 40°C														
	– 50°C														
Voltage	Peak operating voltage max. 350 V					x		x		x	x		x		x
	Peak operating voltage UL/CSA 300 V					x		x		x	x		x		x
	Nominal voltage Uo/U 300/500 V						x		x			x		x	
	Nominal voltage Uo/U 0,6/1 kV	x	x	x	x										
	Voltage UL/CSA 600 V						x		x			x		x	
	Voltage UL 600 V / CSA 1000 V			x	x										
	Testing voltage 1500 V					x		x		x	x		x		x
	Testing voltage 2000 V														
	Testing voltage 3000 V						x		x			x		x	
Characteristics, standards and approvals	Flexible at low temperature														
	LABS uncritical**	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Zero halogen acc. to DIN VDE and IEC														
	Flame retardant and self-extinguishing acc. to IEC + EN	x	x	x	x				x	x					
	Flame retardant and self-extinguishing acc. to UL/CSA	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	UL recognized	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	CSA approved	x	x	x	x		x		x		x	x	x	x	x
	Oil resistant acc. to internal standard					x	x	x	x	x					
	Oil resistant acc. to DIN VDE	x	x	x	x						x	x	x	x	x
	Good chemical resistance		x	x	x						x	x	x	x	x
	Weathering resistance														
Application A: high service life B: medium service life C: short service life	At acceleration values of up to 05 m/s²	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	up to 20 m/s²	B	A	A	A	B	B	B	B	B	A	A	A	A	A
	up to 40 m/s²	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	more than 40 m/s²	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	At path feet rates of up to 1 m/s	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	up to 3 m/s	B	A	A	A	B	B	B	B	B	A	A	A	A	A
	up to 10 m/s	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	more than 10 m/s	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	For cable tracks with a length of up to 5 m	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	up to 10 m	B	A	A	A	B	B	B	B	B	A	A	A	A	A
	up to 25 m	C	B	B	B	C	C	C	C	C	B	B	B	B	B
	more than 25 m	C	B	B	B	C	C	C	C	C	B	B	B	B	B
	These pages are meant to be helpful for choosing cables, they do not contain any guaranteed characteristics. Please also see the technical data on the particular catalogue pages.														

Temperature range:
from
to

*The temperature range for flexing is mentioned on the particular catalogue page

**LABS = enamel moisturing interfering substances

Selection index

	Cable type	SD 980 P	S 980 P	SD 980 CP	S 980 CP	SD 980 CP TP	SD 86	S 86	SD 86 C	S 86 C	SD 86 C TP	SD 200	S 200	SD 200 C	S 200 C	SD 200 C TP
Application	Data cables	x		x		x	x		x		x	x		x		x
	Control cables		x		x			x		x			x		x	
	Bare copper strands, extra fine wires	x		x		x	x		x		x	x		x		x
	Screened			x	x	x			x	x	x			x	x	x
	No coupling of individual signals by twisted-pair cabling,low influence on neighbored cable circuits, effective suppression of crosstalk and side-to-side crosstalk effects					x					x					x
Temperature range static*	+ 90°C															
	+ 80°C															
	+ 70°C															
	– 30°C															
	– 40°C															
	– 50°C															
Voltage	Peak operating voltage max. 350 V	x		x		x	x		x		x	x		x		x
	Peak operating voltage UL/CSA 300 V	x		x		x										
	Nominal voltage Uo/U 300/500 V		x		x			x		x			x		x	
	Nominal voltage Uo/U 0,6/1 kV															
	Voltage UL/CSA 600 V		x		x											
	Voltage UL 600 V / CSA 1000 V															
	Testing voltage 1500 V	x		x		x	x		x		x	x		x		x
	Testing voltage 2000 V												x		x	
	Testing voltage 3000 V		x		x			x		x						
Characteristics, standards and approvals	Flexible at low temperature	x	x	x	x	x						x	x	x	x	x
	LABS uncritical**	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Zero halogen acc. to DIN VDE and IEC	x	x	x	x	x						x	x	x	x	x
	Flame retardant and self-extinguishing acc. to IEC + EN	x	x	x	x	x	x	x	x	x	x					
	Flame retardant and self-extinguishing acc. to UL/CSA	x	x	x	x	x										
	UL recognized	x	x	x	x	x										
	CSA approved	x	x	x	x	x										
	Oil resistant acc. to internal standard						x	x	x	x	x					
	Oil resistant acc. to DIN VDE	x	x	x	x	x						x	x	x	x	x
	Good chemical resistance	x	x	x	x	x						x	x	x	x	x
	Weathering resistance											x	x	x	x	x
Application A: high service life B: medium service life C: short service life	At acceleration values of up to 05 m/s²	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	up to 20 m/s²	A	A	A	A	A	B	B	B	B	B	A	A	A	A	A
	up to 40 m/s²	A	A	A	A	A	C	C	C	C	C	A	A	A	A	A
	more than 40 m/s²	A	A	A	A	A	C	C	C	C	C	A	A	A	A	A
	At path feet rates of up to 1 m/s	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	up to 3 m/s	A	A	A	A	A	B	B	B	B	B	A	A	A	A	A
	up to 10 m/s	A	A	A	A	A	C	C	C	C	C	A	A	A	A	A
	more than 10 m/s	A	A	A	A	A	C	C	C	C	C	A	A	A	A	A
	For cable tracks with a length of up to 5 m	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	up to 10 m	A	A	A	A	A	B	B	B	B	B	A	A	A	A	A
	up to 25 m	A	A	A	A	A	C	C	C	C	C	A	A	A	A	A
	more than 25 m	A	A	A	A	A	C	C	C	C	C	A	A	A	A	A
	These pages are meant to be helpful for choosing cables, they do not contain any guaranteed characteristics. Please also see the technical data on the particular catalogue pages.															

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