

# Cables for Cleanroom Technology

**SABclean SD 780 C** Continuously flexible data cable with overall shield

**SABclean S 780 C** Continuously flexible control cable with overall shield



Marking for **SABclean SD 780** 37801803:  
SAB BRÜCKSKES · D-VIERSEN · SAB Clean SD 780 · 18 x 0.34 mm² CE RoHS

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Marking for **SABclean S 776** 37780410:  
SAB BRÜCKSKES · D-VIERSEN · SAB Clean S 780 C · 4G 1.0 mm² CE RoHS

## Construction:

<b>Conductor:</b> <b>SD 780:</b>	bare copper strands extra fine wire
<b>S 780 C:</b>	bare copper strands acc. to IEC 60228, VDE 0295, class 6
<b>Insulation:</b>	TPE
<b>Color code:</b> <b>SD 780:</b>	acc. to DIN 47100, see below
<b>S 780 C:</b>	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green/yellow ground from 3 conductors
<b>Stranding:</b>	specially adjusted layering
<b>Wrapping:</b>	non-woven tape
<b>Inner jacket:</b>	<b>S 780 C:</b> SABIX®
<b>Wrapping:</b>	<b>S 780 C:</b> non-woven tape
<b>Shielding:</b>	tinned copper braiding
<b>Wrapping:</b>	non-woven tape
<b>Jacket material:</b>	TPE
<b>Jacket color:</b>	black (RAL 9005)

## Technical data:

<b>Peak operating voltage:</b>	<b>SD 780 C</b> max. 350 V
<b>Nominal voltage:</b>	<b>S 780 C:</b> U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b> <b>SD 780 C</b>	conductor/conductor: 1500 V conductor/shielding: 1200 V
<b>S 780 C:</b>	conductor/conductor: 2000 V conductor/shielding: 2000 V
<b>Min. bending radius:</b>	7.5 x O.D.
<b>Temperature range:</b> <i>static:</i> <i>flexing:</i>	-40/+80°C -30/+80°C
<b>Oil resistance:</b>	very good- oil rating 60°C acc. to UL 758
<b>Air cleanliness class 1:</b>	acc. to ISO 14644-1
<b>Approvals:</b>	CE, EAC, RoHS
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30

## Outstanding features:



- flexible at low temperatures
- high abrasion resistance
- small outer diameter
- oil resistant
- good EMC characteristics



**Cleanroom classification**  
**ISO 14644-1**  
**Air Cleanliness Class 1**

### SD 780 C

item no.	no. of conductors	outer-ø		cable weight ≈lbs/mft	ohmic resistance at 20°C max. Ω/km
		inch ±5%	mm ±5%		
<b>▶ 26 AWG ▪ 0.14 mm<sup>2</sup></b>					
37800201	2	0.528	4.3	17	139.3
37800301	3	0.583	4.4	18	139.3
<b>▶ 24 AWG ▪ 0.25 mm<sup>2</sup></b>					
37800302	3	0.720	4.8	22	78
37800402	4	0.819	5.0	24	78
<b>▶ 22 AWG ▪ 0.34 mm<sup>2</sup></b>					
37800303	3	0.827	5.0	24	57.4
37800503	5	1.252	5.6	34	57.4
37800703	7	1.543	6.3	42	57.4
37801003	10	2.079	7.2	52	57.4
37801803	18	3.331	8.4	79	57.4

Other dimensions and colors are available on request

### S 780 C

item no.	no. of conductors incl. ground	outer-ø		cable weight ≈lbs/mft	ohmic resistance at 20°C max. Ω/km
		inch ±5%	mm ±5%		
<b>▶ 20 AWG ▪ 0.50 mm<sup>2</sup></b>					
37800305	3	1.362	7.2	46	39
37800405	4	1.567	7.6	51	39
<b>▶ 19 AWG ▪ 0.75 mm<sup>2</sup></b>					
37800207	2	1.374	7.5	47	26
37800407	4	2.031	8.2	62	26
<b>▶ 18 AWG ▪ 1.00 mm<sup>2</sup></b>					
37800210	2	1.646	7.9	54	19.5
37800310	3	2.031	8.2	62	19.5
37800410	4	2.543	8.9	76	19.5
<b>▶ 16 AWG ▪ 1.50 mm<sup>2</sup></b>					
37800315	3	2.732	9.0	79	13.3
37800415	4	3.327	9.6	93	13.3
<b>▶ 14 AWG ▪ 2.50 mm<sup>2</sup></b>					
37800425	4	5.839	11.7	145	7.98
<b>▶ 12 AWG ▪ 4.00 mm<sup>2</sup></b>					
37800440	4	8.484	13.9	210	4.95

Other dimensions and colors are available on request



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