

Continuous Flex Cables for Cleanrooms

SABclean SD 780 C Continuous flexible data cable with overall shield

SABclean S 780 C Continuous flexible control cable with overall shield



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

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

Construction:

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

Technical data:

Peak operating voltage:	SD 780 C: max. 350 V
Nominal voltage:	S 780 C: U ₀ /U 300/500 V
Testing voltage: SD 780 C:	conductor/conductor: 1500 V conductor/shielding: 1200 V
S 780 C:	conductor/conductor: 2000 V conductor/shielding: 2000 V
Min. bending radius:	7.5 x O.D.
Temperature range: <i>static:</i> <i>flexing:</i>	-40/+80°C -30/+80°C
Oil resistance:	very good - oil rating 60°C acc. to UL 758
Air cleanliness class 1:	acc. to ISO 14644-1
Approvals:	CE, RoHS
Absence of harmful substances:	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
		±10% inch	±10% mm		
▶ 26 AWG ▪ 0.14 mm²					
37800201	2	0.169	4.3	17	139.3
37800301	3	0.173	4.4	18	139.3
▶ 24 AWG ▪ 0.25 mm²					
37800302	3	0.189	4.8	22	78
37800402	4	0.197	5.0	24	78
▶ 22 AWG ▪ 0.34 mm²					
37800303	3	0.197	5.0	24	57.4
37800503	5	0.220	5.6	34	57.4
37800703	7	0.248	6.3	42	57.4
37801003	10	0.283	7.2	52	57.4
37801803	18	0.331	8.4	79	57.4

Other dimensions and colors are available on request

DIN 47100 color code:

#1- white, #2- brown, #3- green, #4- yellow, #5- gray, #6- pink, #7- blue, #8- red, #9- black, #10- violet, #11- gray-pink, #12- red-blue, #13- white-green, #14- brown-green, #15- white-yellow, #16- yellow-brown, #17- white-gray, #18- gray-brown

S 780 C

item no.	no. of conductors incl. ground	outer-ø		cable weight ≈lbs/mft	ohmic resistance at 20°C max. Ω/km
		±10% inch	±10% mm		
▶ 20 AWG ▪ 0.50 mm²					
37800305	3	0.283	7.2	46	39
37800405	4	0.299	7.6	51	39
▶ 19 AWG ▪ 0.75 mm²					
37800207	2	0.295	7.5	47	26
37800407	4	0.323	8.2	62	26
▶ 18 AWG ▪ 1.00 mm²					
37800210	2	0.311	7.9	54	19.5
37800310	3	0.322	8.2	62	19.5
37800410	4	0.350	8.9	76	19.5
▶ 16 AWG ▪ 1.50 mm²					
37800315	3	0.354	9.0	79	13.3
37800415	4	0.378	9.6	93	13.3
▶ 14 AWG ▪ 2.50 mm²					
37800425	4	0.461	11.7	145	7.98
▶ 12 AWG ▪ 4.00 mm²					
37800440	4	0.547	13.9	210	4.95

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