

SAB^{clean} SD 780 C continuously flexible data cable with overall copper screen
SAB^{clean} S 780 C continuously flexible control cable with overall copper screen



Marking for **SAB^{clean} SD 780 C** 37801803:

SAB BRÖCKSKES · D-VIERSEN · SAB Clean SD 780 · 18 x 0,34 mm² · RoHS and current meter marking



Marking for **SAB^{clean} S 780 C** 37800410:

SAB BRÖCKSKES · D-VIERSEN · SAB Clean S 780 C · 4 G 1,0 mm² · RoHS and current meter marking

Construction:

Conductor:	SD 780 C: bare copper strands, extra fine wire S 780 C: bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	TPE
Colour code:	SD 780 C: with reference to DIN 47100 S 780 C: black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
Stranding:	specialy adjusted layering
Wrapping:	non-woven tape
Inner sheath:	S 780 C: SABIX®
Wrapping:	S 780 C: non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	TPE
Sheath colour:	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: core/core 1500 V core/screen 1200 V S 780 C: core/core 2000 V core/screen 2000 V
Min. bending radius:	7,5 x d
Temperature range	
<i>fixed laying:</i>	-40/+80 °C
<i>flexible application:</i>	-30/+80 °C
Oil resistance:	very good - Oil 60 °C acc. to UL 758
Air cleanliness class 1:	acc. to DIN EN 14644-1 US Federal Standard 209 E
Absence of harmful substances:	acc. to RoHS directive of the European Union

Outstanding features:

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

* Copper braiding should be connected circularly to optimize the EMC characteristics

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	ohmic resistance at 20 °C max. Ω/km
SD 780 C						
37800201	2 x 0,14	0,11	4,3	13,4	25	139,3
37800301	3 x 0,14	0,11	4,4	14,8	27	139,3
37800302	3 x 0,25	0,11	4,8	18,3	32	78,0
37800402	4 x 0,25	0,11	5,0	20,8	36	78,0
37800303	3 x 0,34	0,11	5,0	21,0	35	57,4
37800503	5 x 0,34	0,11	5,6	31,8	51	57,4
37800703	7 x 0,34	0,11	6,3	39,2	62	57,4
37801003	10 x 0,34	0,11	7,2	52,8	77	57,4
37801803	18 x 0,34	0,11	8,4	84,6	117	57,4
S 780 C						
37800305	3 x 0,50	0,16	7,2	34,6	68	39,0
37800405	4 x 0,50	0,16	7,6	39,8	76	39,0
37800207	2 x 0,75	0,16	7,5	34,9	70	26,0
37800407	4 x 0,75	0,16	8,2	51,6	92	26,0
37800210	2 x 1,00	0,16	7,9	41,8	80	19,5
37800310	3 x 1,00	0,16	8,2	51,6	92	19,5
37800410	4 x 1,00	0,16	8,9	64,6	113	19,5
37800315	3 x 1,50	0,16	9,0	69,4	118	13,3
37800415	4 x 1,50	0,16	9,6	84,5	138	13,3
37800425	4 x 2,50	0,16	11,7	148,3	216	7,98
37800440	4 x 4,00	0,16	13,9	215,5	313	4,95

Other dimensions and colours are possible on request.



Cleanroom classification
DIN EN ISO 14644-1
air cleanliness class 1,
US Federal Standard 209 E
air cleanliness class 1.