SABdynamic 905 Control C

continuously flexible SABIX®/PUR power cable, robust, oil resistant and flame retardant with numbered cores and overall copper screen

low capacity

SABFlex

Marking example:
SAB BRÖCKSKES · D-VIERSEN · SABdynamic 905 Control 18G1,5mm² cULus AWM Style 21223 AWM I/II A/B 80°C 1000V FT1 FT2 0905-1815 CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, Klasse 6
Insulation:	SABIX®
Colour code:	black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334, green-yellow earth wire from 3 cores
Stranding:	specially adjusted layering with non-woven tape over each layer
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	PUR with mat surface
Sheath colour:	black (RAL 9005)

Outstanding features:

- cULus recognized
- PWIS uncritical
  (PWIS = paint-wetting impairment substances)
- low capacity
- extremely large temperature range
- halogen-free
- high abrasion resistance
- suitable for long travel
- small bending radius
- small outer diameter
- good EMC characteristics
- PFAS free

Technical Data:

Nominal voltage:	Uo/U 0,6/1 kV
Voltage cULus:	1000 V
Testing voltage:	core/core 4000 V core/screen 4000 V
Min. bending radius *fixed laying:* *flexible application:* *bending cycles:*	 3 x d 7,5 x d > 10 million
Temperature range *fixed laying:* *flexible application:*	**DIN VDE** **cULus:** up to +80 °C -50/+90 °C -40/+90 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, cULus FT1, FT2
Oil resistance:	very good - TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous Flexibility:	very good
Sunlight resistance:	acc. to HD 605
Ozone resistance:	acc. to DIN EN 50396
Salt water resistance:	acc. to UL 1309
Absence of harmful substances:	acc. to RoHS directive of the European Union, see chapter N „Technical data“

item no.	no. of cores x cross section n x mm²	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
09050415	4 x 1,50	0,16	8,0	81,3	107
09050715	7 x 1,50	0,16	10,7	148,4	198
09051215	12 x 1,50	0,16	12,9	232,5	283
09051815	18 x 1,50	0,16	15,7	357,0	437
09050425	4 x 2,50	0,16	10,2	125,2	169
09050525	5 x 2,50	0,16	10,6	174,0	216
09051225	12 x 2,50	0,16	16,6	397,7	473
09050440	4 x 4,00	0,16	11,9	207,9	259
09050540	5 x 4,00	0,16	13,1	251,8	314
09050460	4 x 6,00	0,21	13,9	327,4	387
09050461	4 x 10,0	0,21	16,7	493,9	574
09050561	5 x 10,0	0,21	18,8	603,5	713

item no.	no. of cores x cross section n x mm²	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
09050462	4 x 16,0	0,21	21,0	752,6	894
09050562	5 x 16,0	0,21	23,2	933,7	1111
09050163	1 x 25,0	0,21	11,0	287,8	306
09050463	4 x 25,0	0,21	24,5	1127,8	1271
09050164	1 x 35,0	0,21	12,6	395,6	418
09050464	4 x 35,0	0,21	28,1	1520,9	1712
09050165	1 x 50,0	0,31	15,1	577,3	613
09050465	4 x 50,0	0,31	33,5	2141,3	2458
09050166	1 x 70,0	0,31	17,5	782,9	831
09050167	1 x 95,0	0,31	20,4	1038,1	1097
09050168	1 x 120,0	0,31	22,2	1292,9	1353

Other dimensions and colours are possible on request.