

Highly dynamic cables

SD 99 *ECO*

continuously flexible SABIX®/PUR data cable with coloured cores



marking example:

SAB BRÜCKSKES · D-VIERSEN · SD 99 *ECO* 25x0,14mm² CE

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	SABIX®
Colour code:	with reference to DIN 47100
Stranding:	specially adjusted layering with non-woven tape over each layer
Wrapping:	non-woven tape
Sheath material:	PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 with mat surface
Sheath colour:	black (RAL 9005)

Outstanding features:

- » low capacity
- » PWIS uncritical
(PWIS = paint-wetting impairment substances)
- » flexible at low temperatures
- » halogen-free
- » high abrasion resistance
- » small bending radius
- » small outer diameter
- » PFAS free

Technical Data:

Peak operating voltage:	max. 350 V acc. to VDE 0812
Testing voltage:	core/core 1500 V
Torsion angle:	± 60°/1 m
Min. bending radius fixed laying:	3 x d
flexible application:	7,5 x d
Temperature range fixed laying:	-50/+90 °C
flexible application:	-40/+90 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Oil resistance:	very good - TPU 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
SD 99 ECO - multi-core cable unscreened					
09730402	4 x 0,25	0,11	3,6	9,6	18
09730702	7 x 0,25	0,11	4,6	16,8	31
09730203	2 x 0,34	0,11	3,2	6,6	13
09730403	4 x 0,34	0,11	3,9	13,2	22

Other dimensions and colours are possible on request.

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
SD 99 C ECO - multi-core cable with overall copper screen					
09830801	8 x 0,14	0,11	4,8	24,4	34
09831201	12 x 0,14	0,11	5,4	31,6	43
09830402	4 x 0,25	0,11	4,1	20,0	27
09830502	5 x 0,25	0,11	4,5	25,9	34
09831202	12 x 0,25	0,11	6,3	46,5	59
09830403	4 x 0,34	0,11	4,4	27,1	33
09830503	5 x 0,34	0,11	4,7	30,3	38
09831803	18 x 0,34	0,11	7,7	83,1	101
09830550	5 x 0,50	0,11	5,5	40,0	51
09830475	4 x 0,75	0,11	6,2	46,4	62

Other dimensions and colours are possible on request.

item no.	no. of pairs x cross section n x 2 x mm²	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
SD 99 C TP ECO - multi-pair cable with overall copper screen					
09890314	3 x 2 x 0,14	0,11	4,8	21,8	30
09891014	10 x 2 x 0,14	0,11	7,6	49,7	69
09890225	2 x 2 x 0,25	0,11	4,8	23,6	33
09890425	4 x 2 x 0,25	0,11	6,3	36,9	49
09890525	5 x 2 x 0,25	0,11	6,8	43,7	60
09890625	6 x 2 x 0,25	0,11	7,0	51,1	68
09890434	4 x 2 x 0,34	0,11	6,8	46,1	58
09890250	2 x 2 x 0,50	0,11	6,0	36,9	50
09890350	3 x 2 x 0,50	0,11	6,8	48,5	65

Other dimensions and colours are possible on request.

The SD 99 *ECO* is available with

- » Multi-core cables:
Cross sections from 0.14 mm² to 0.75 mm²
- » Number of cores from 2 to 50
- » Number of pairs from 1 to 48