

# Continuous Flex

## S 960 CY

Shielded continuous flex control cable for small bending radius with black conductors



Marking for S 960 CY 7541607:

SAB BRÖCKSKES · D-VIERSEN · 754715 7 x 1.5 mm<sup>2</sup> S 960 CY 16 AWG/7c 7541607 AWM Style 2587 90°C 600V CSA AWM I/II A/B 90°C 600V FT1 FT2 CE

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### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, VDE 0295, class 6
<b>Insulation:</b>	PVC, Tl2 acc. to EN 50363-3 + VDE 0207-363-3
<b>Color code:</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 with non-woven tape over each layer
<b>Inner jacket:</b>	PVC, TM2 acc. to EN 50363-3 + VDE 0207-363-3
<b>Shielding:</b>	tinned copper braiding
<b>Wrapping:</b>	non-woven tape
<b>Jacket material:</b>	PVC, TM2 acc. to EN 50363-3 + VDE 0207-363-3
<b>Jacket color:</b>	black (RAL 9005)

### Technical data:

<b>Nominal voltage:</b>	Uo/U 300/500 V	
<b>Voltage UL/CSA:</b>	600 V	
<b>Testing voltage:</b>	conductor/conductor: 2000 V conductor/shielding: 2000 V	
<b>Min. bending radius:</b> <i>continuously flexing:</i>	7.5 x O.D.	
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range:</b> <i>static:</i> <i>flexing:</i>	<b>DIN VDE</b> -40/+70°C	<b>UL/CSA:</b> up to +90°C +5/+70°C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL VW-1, CSA FT1, FT2	
<b>Oil resistance:</b>	acc. to our internal standard, see page O/29	
<b>Approvals:</b>	UR AWM, CSA AWM, CE, EAC, RoHS	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30	

### Outstanding features:



- very good EMC characteristics
- very good flexibility
- small bending radius
- UV resistant jacket

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
<b>▶ 20 AWG (≈ 28/34) ▪ 0.50 mm<sup>2</sup></b>				
7542002	2	0.311	7.9	53
7542003	3	0.323	8.2	61
7542004	4	0.343	8.7	70
7542005	5	0.370	9.4	83
7542007	7	0.421	10.7	110
7542012	12	0.516	13.1	163
7542018	18	0.594	15.1	226
7542025	25	0.697	17.7	296
<b>▶ 19 AWG (≈ 42/34) ▪ 0.75 mm<sup>2</sup></b>				
7541902	2	0.327	8.3	60
7541903	3	0.343	8.7	69
7541904	4	0.366	9.3	81
7541905	5	0.394	10.0	95
7541907	7	0.457	11.6	126
7541912	12	0.551	14.0	185
7541918	18	0.638	16.2	261
7541925	25	0.764	19.4	350
<b>▶ 18 AWG (≈ 56/34) ▪ 1.00 mm<sup>2</sup></b>				
7541802	2	0.339	8.6	66
7541803	3	0.350	8.9	75
7541804	4	0.374	9.5	88
7541805	5	0.406	10.3	105
7541807	7	0.476	12.1	144
7541812	12	0.579	14.7	222
7541818	18	0.665	16.9	305
7541825	25	0.791	20.1	404
7541836	36	0.890	22.6	574

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
<b>▶ 16 AWG (≈ 84/34) ▪ 1.50 mm<sup>2</sup></b>				
7541602	2	0.366	9.3	79
7541603	3	0.382	9.7	92
7541604	4	0.409	10.4	110
7541605	5	0.453	11.5	140
7541607	7	0.531	13.5	192
7541612	12	0.638	16.2	282
7541618	18	0.744	18.9	394
7541625	25	0.886	22.5	530
<b>▶ 14 AWG (≈ 140/34) ▪ 2.50 mm<sup>2</sup></b>				
7541402	2	0.449	11.4	122
7541403	3	0.472	12.0	147
7541404	4	0.516	13.1	179
7541405	5	0.571	14.5	229
7541407	7	0.622	15.8	294
7541412	12	0.803	20.4	438
7541418	18	0.933	23.7	610
7541425	25	1.110	28.2	815
<b>▶ 12 AWG (≈ 224/34) ▪ 4.00 mm<sup>2</sup></b>				
7541203	3	0.539	13.7	202
7541204	4	0.575	14.6	251
7541205	5	0.630	16.0	304
7541207	7	0.760	19.3	440
<b>▶ 10 AWG (≈ 186/32) ▪ 6.00 mm<sup>2</sup></b>				
7541003	3	0.638	16.2	288
7541004	4	0.685	17.4	347
7541005	5	0.760	19.3	416

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
<b>▶ 8 AWG (≈ 320/32) ▪ 10.00 mm<sup>2</sup></b>				
7540804	4	0.835	21.2	531
7540805	5	0.925	23.5	644
<b>▶ 6 AWG (≈ 504/32) ▪ 16.00 mm<sup>2</sup></b>				
7540604	4	0.980	24.9	734
7540605	5	1.079	27.4	902
<b>▶ 4 AWG (≈ 760/32) ▪ 25.00 mm<sup>2</sup></b>				
7540404	4	1.165	29.6	1124
7540405	5	1.291	32.8	1329
<b>▶ 2 AWG (≈ 1083/32) ▪ 35.00 mm<sup>2</sup></b>				
7540204	4	1.303	33.1	1418
<b>▶ 1 AWG (≈ 703/28) ▪ 50.00 mm<sup>2</sup></b>				
7540104	4	1.567	39.8	2022

Other dimensions and colors are available on request