also available with blue, red and white conductors

RoHS

S 980 CP

High speed continuous flex shielded heavy duty halogen free polyurethane control cable

Marking for S 980 CP 77840715: SAB BRÖCKSKES · D-VIERSEN · 77840715 7 x 1,5 mm² S 980 CP 16 AWG/7c 77841607
AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2

S 980 CP is a continuous flex shielded multi-conductor 80°C, 600 V cable designed specifically for the most stressful ultra high speed applications requiring a very small bending radius. The unique design allows this cable to excel in applications where ordinary flexing cables fail. The halogen free polyurethane jacket cable with black numbered conductors passes the stringent VDE test 0282 part 10 and HD 22.10 oil test and provides excellent resistance to chemicals and abrasion. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

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Construction:

Conductor:	bare copper strands acc. to. IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	TPE
Color code:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	specially adjusted layering with netting tape over each layer
Inner jacket:	special SABIX®
Wrapping:	netting tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	gray

Outstanding features:

- **labs uncritical**
  (labs = enamel moisturing interfering substances)
- **flexible at low temperatures**
- **travel > 10 m is possible**
- **good EMC characteristics**
- **high abrasion resistance**

Technical data:

Nominal voltage:	**DIN VDE:** Uo/U 300/500 V **UL/CSA:** 600 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 2000 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** **UL/CSA:** up to +80°C -50/+90°C -40/+90°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **20 AWG (≈ 28/34) • 0.50 mm²**				
77842003	3	0.339	8.6	58
77842004	4	0.354	9.0	66
77842005	5	0.382	9.7	75
77842007	7	0.425	10.8	92
77842012	12	0.496	12.6	137
77842018	18	0.579	14.7	192
77842025	25	0.673	17.1	255
77842030	30	0.709	18.0	292
77842036	36	0.756	19.2	335
► **19 AWG (≈ 42/34) • 0.75 mm²**				
77841903	3	0.354	9.0	65
77841904	4	0.374	9.5	74
77841905	5	0.406	10.3	85
77841907	7	0.461	11.7	116
77841912	12	0.543	13.8	171
77841918	18	0.630	16.0	238
77841925	25	0.736	18.7	306
77841930	30	0.748	19.0	351
77841936	36	0.803	20.4	403
► **18 AWG (≈ 56/34) • 1.00 mm²**				
77841803	3	0.362	9.2	71
77841804	4	0.386	9.8	82
77841805	5	0.413	10.5	95
77841807	7	0.476	12.1	129
77841812	12	0.559	14.2	201
77841818	18	0.634	16.1	269
77841825	25	0.760	19.3	350
77841830	30	0.776	19.7	405
77841836	36	0.898	22.8	521

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