

also available with blue, red and white conductors

CONTINUOUS FLEX CABLES

S 970 CHP High speed continuous flex shielded heavy duty halogen free polyurethane control cable



Marking for S 970 CHP 07791607: BRÖCKSKES · D-VIERSEN ·
07790715 7 x 1,5 mm² S 970 CHP 16 AWG/7c 07791607 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2

S 970 CHP 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.

**B
34**

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	TPE 510
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
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: U ₀ /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 <i>continuous flexing:</i>	7.5 x O.D.
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range <i>static:</i> <i>flexing:</i>	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-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page M/25

item no.	no. of conductors incl. ground	nominal inch	outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal inch	outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal inch	outer-ø mm	cable weight ≈ lbs/mft
▶ 20 AWG (33/34) • 0.50 mm ²					▶ 19 AWG (42/34) • 0.75 mm ²					▶ 18 AWG (56/34) • 1.00 mm ²				
07792003	3	0.390	9.9	84	07791903	3	0.413	10.5	92	07791803	3	0.425	10.8	100
07792004	4	0.417	10.6	91	07791904	4	0.433	11.0	105	07791804	4	0.445	11.3	116
07792005	5	0.437	11.1	106	07791905	5	0.465	11.8	120	07791805	5	0.472	12.0	132
07792007	7	0.484	12.3	128	07791907	7	0.512	13.0	145	07791807	7	0.524	13.3	162
07792012	12	0.579	14.7	177	07791912	12	0.610	15.5	202	07791812	12	0.626	15.9	229
07792018	18	0.654	16.6	226	07791918	18	0.693	17.6	278	07791818	18	0.713	18.1	322
07792025	25	0.776	19.7	322	07791925	25	0.831	21.1	377	07791825	25	0.854	21.7	431
07792030	30	0.791	20.1	352	07791930	30	0.850	21.6	415	07791830	30	0.878	22.3	478
07792036	36	0.843	21.4	401	07791936	36	0.921	23.4	488	07791836	36	0.949	24.1	564

Continued on next page



CONTINUOUS FLEX CABLES

also available with blue, red and white conductors



S 970 CHP High speed continuous flex shielded heavy duty halogen free polyurethane control cable



07790715 7 x 1,5 mm² S 970 CHP 16 AWG/7c 07791607

Marking for S 970 CHP 07791607: BRÖCKSKES · D-VIERSEN · AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2

S 970 CHP 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.

B
35

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	TPE 510
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
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: U ₀ /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:	DIN VDE -50/+90°C
flexing:	UL/CSA: up to +80°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-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page M/25

item no.	no. of conductors incl. ground	nominal inch	outer-ø mm	cable weight ≈ lbs/mft
▶ 16 AWG (84/34) • 1.50 mm²				
07791603	3	0.449	11.4	124
07791604	4	0.476	12.1	142
07791605	5	0.504	12.8	162
07791607	7	0.579	14.7	212
07791612	12	0.689	17.5	309
07791618	18	0.795	20.2	436
07791625	25	0.953	24.2	591
07791630	30	0.976	24.8	657
07791636	36	1.055	26.8	767

item no.	no. of conductors incl. ground	nominal inch	outer-ø mm	cable weight ≈ lbs/mft
▶ 14 AWG (140/34) • 2.50 mm²				
07791403	3	0.512	13.0	166
07791404	4	0.559	14.2	201
07791405	5	0.594	15.1	231
07791407	7	0.685	17.4	315
07791412	12	0.835	21.2	464
07791418	18	0.965	24.5	657
07791425	25	1.169	29.7	882
▶ 12 AWG (224/34) • 4.00 mm²				
07791203	3	0.587	14.9	233
07791204	4	0.622	15.8	290
07791205	5	0.677	17.2	343

item no.	no. of conductors incl. ground	nominal inch	outer-ø mm	cable weight ≈ lbs/mft
▶ 10 AWG (192/32) • 6.00 mm²				
07791003	3	0.697	17.7	322
07791004	4	0.752	19.1	392
07791005	5	0.815	20.7	463
▶ 8 AWG (320/32) • 10.00 mm²				
07790803	3	0.846	21.5	507
07790804	4	0.913	23.2	596
07790805	5	0.992	25.2	728
▶ 6 AWG (512/32) • 16.00 mm²				
07790603	3	0.976	24.8	693
07790604	4	1.055	26.8	825
07790605	5	1.150	29.2	997
▶ 4 AWG (798/32) • 25.00 mm²				
07790404	4	1.252	31.8	1204
07790405	5	1.354	34.4	1467
▶ 2 AWG (1102/32) • 35.00 mm²				
07790204	4	1.413	35.9	1554
07790205	5	1.535	39.0	1888
▶ 1 AWG (703/28) • 50.00 mm²				
07790104	4	1.756	44.6	2114

Other dimensions and colors are possible on request.

E-mail: info@sabcable.com



Web site: www.sabcable.com