

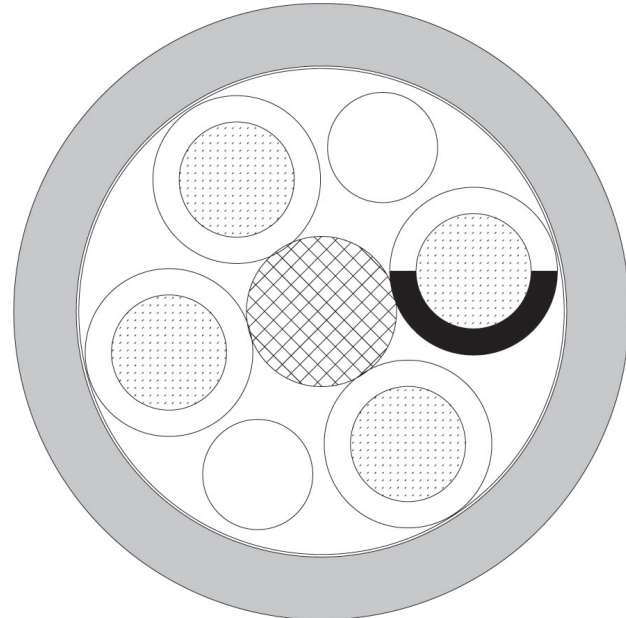
HYBRID FIELD BUS CABLES

S 670 PUR hybrid field bus control cable, suitable for cable tracks

S 671 PVC hybrid field bus control cable, suitable for cable tracks



**optical
waveguide
+ copper
conductors**



Marking for S 670 06701604:

SAB BRÖCKSKES · D-VIERSEN · S 670 4 x 1,5 mm² + 2 POF AWM Style 21060 80 °C 600V CSA AWM I/II A/B 80 °C 600V FT1 FT2 CE

Marking for S 671 06711802:

SAB BRÖCKSKES · D-VIERSEN · S 671 2 x 1,0 mm² + 2 POF AWM Style 21060 75 °C 600V CSA AWM I/II A/B 75 °C 600V FT1 FT2 CE

S 670 and S 671 are flexible UL/CSA approved hybrid field bus control cables, suitable for cable continuous flexing with fiber optic and copper conductors. The cable S 670 with its polyurethane outer jacket has a very good resistance against acids, alkalines, solvents hydraulic liquids and oil.

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	PVC, Tl2 acc. to DIN VDE 0281 part 1
Color code:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Optical waveguide:	POF (polymeric optical fibers)
Color code POF:	black
Stranding:	conductors and POF in specially adjusted layering
Wrapping:	non-woven tape
Jacket material:	S 670: PUR, TmpU acc. to DIN VDE 0282 part 10 with mat surface S 671: PVC, Tm2 acc. to DIN VDE 0281 part 1, reinforced wall-thickness
Jacket color:	acc. to customer' specification

Outstanding features:

- optical waveguide
- copper conductors

Technical data:

Nominal voltage DIN VDE:	U ₀ /U 300/500 V	
Voltage UL/CSA:	600 V	
Testing voltage:	3000 V	
Min. bending radius		
<i>fixed installation:</i>	4 x O.D.	
<i>free movement:</i>	7.5 x O.D.	
<i>for continuous flexing:</i>	10 x O.D.	
Temperature range	S 670	S 671
<i>fixed laying:</i>	UL/CSA: up to +80 °C	UL/CSA: up to +75 °C
<i>flexible application:</i>	-40/+70 °C	-40/+70 °C
	+5/+70 °C	+5/+70 °C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2	
Oil resistance:	PVC - acc. to internal standard PUR - very good	
Attenuation POF measured at 650 nm:	max. 10 dBm / 20 m	
Diameter:	PMMA: 1,0 mm · POF: 2,2 mm	
Absence of harmful substances:	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/25	

PUR jacket

no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 16 AWG (27-29/30) • 1.50 mm²			
4	0.390	9.9	93
5	0.417	10.6	111
▶ 14 AWG (46/30) • 2.50 mm²			
4	0.484	12.3	139
5	0.520	13.2	167

each + 2 x POF (polymeric optical fibers)

Other dimensions are possible on request.

PVC jacket

no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG (30/32) • 1.00 mm²			
2	0.283	7.2	44
3	0.315	8.0	53
▶ 16 AWG (27-29/30) • 1.50 mm²			
2	0.303	7.7	54
5	0.409	10.4	110

each + 2 x POF (polymeric optical fibers)

Other dimensions are possible on request.

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Web site: www.sabcable.com