

# Hybrid Fieldbus Cables



**S 670** PUR hybrid field bus control cable with two optical waveguides, suitable for cable tracks

**S 671** PVC hybrid field bus control cable with two optical waveguides, suitable for cable tracks

1060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE



Marking for S 670 06700515:

SAB BRÖCKSKES · D-VIERSEN · S 670 5x1,5mm<sup>2</sup>+2xPOF

AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

1047 75°C 600V CSA AWM I/II A/B 75°C 600V FT1 FT2 CE



**optical waveguide  
+  
copper conductors**

Marking for S 671 06710515:

SAB BRÖCKSKES · D-VIERSEN · S 671 5x1,5mm<sup>2</sup>+2xPOF

AWM Style 21047 75°C 600V CSA AWM I/II A/B 75°C 600V FT1 FT2 CE



<b>Construction:</b>	S 670	S 671
<b>Dimension:</b>	4 x 1,50 mm <sup>2</sup> , 5 x 1,50 mm <sup>2</sup> 4 x 2,50 mm <sup>2</sup> , 5 x 2,50 mm <sup>2</sup>	2 x 1,00 mm <sup>2</sup> , 3 x 1,00 mm <sup>2</sup> 2 x 1,50 mm <sup>2</sup> , 5 x 1,50 mm <sup>2</sup>
<b>Conductor:</b>	bare copper strands, extra fine wires	
<b>Insulation:</b>	PVC, TI2 acc. to EN 50363-3	
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334, green-yellow earth wire from 3 cores	
<b>Optical waveguide:</b>	POF (polymeric optical fibres)	
<b>Colour code POF:</b>	black	
<b>Stranding:</b>	cores and POF in specially adjusted layering	
<b>Wrapping:</b>	non-woven tape	
<b>Sheath material:</b>	PUR, TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 with matt surface	PVC, TM2 acc. to EN 50363-4-1 + VDE 0207-363-4-1, reinforced wall-thickness
<b>Sheath colour:</b>	redlilac (RAL 4001)	silver grey (RAL 7001)

<b>Technical data:</b>	S 670	S 671
<b>Item number:</b>	0670-0415, 0670-0515, 0670-0425, 0670-0525	0671-0210, 0671-0310, 0671-0215, 0671-0515
<b>Nominal voltage:</b>	U <sub>o</sub> /U 300/500 V	
<b>Voltage UL/CSA:</b>	600 V	
<b>Testing voltage:</b>	core/core 3000 V	
<b>Min. bending radius</b>		
fixed laying:	4 x d	
flexible application:	7,5 x d	
continuously flexible:	10 x d	
<b>Temperature range</b>	<b>UL/CSA:</b> up to +80 °C	<b>UL/CSA:</b> up to +75 °C
fixed laying:	-40/+70 °C	
flexible application:	+5/+70 °C	
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2	
<b>Oil resistance:</b>	very good acc. to EN 50363-10-2 + VDE 0207-363-10-2	acc. to internal standard, see chapter N „Technical data“
<b>Attenuation POF measured at 650 nm:</b>	max. 10 dBm / 20 m	
<b>Diameter:</b>	POF: Centre 900/1000 µm - outside 2,2 mm	
<b>UL Style:</b>	21060	21047
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union, see chapter N „Technical data“	

## S 670

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
06700415	4 x 1,50	0,16	10,0	57,6	132
06700515	5 x 1,50	0,16	10,6	72,0	156
06700425	4 x 2,50	0,16	12,2	96,0	197
06700525	5 x 2,50	0,16	13,1	120,0	239

each + 2 x POF (polymeric optical fibres)

Other dimensions are possible on request.

## S 671

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
06710210	2 x 1,00	0,16	7,2	19,2	64
06710310	3 x 1,00	0,16	8,0	28,8	80
06710215	2 x 1,50	0,16	7,7	28,8	73
06710515	5 x 1,50	0,16	10,7	72,0	165

each + 2 x POF (polymeric optical fibres)

Other dimensions are possible on request.