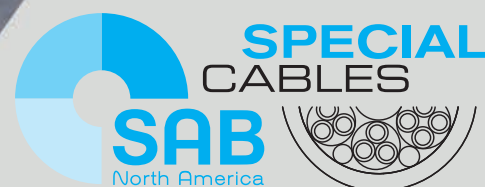


CABLES FOR POWER & CONTROL



www.sabcable.com
866-722-2974 ■ info@sabcable.com



These cables are suitable for a wide range of industrial machinery and automation applications, plus food and beverage processes, conveyors and control panels. SAB's versatile highly flexible control cables resist oils and feature a tight bending radius with smaller diameters. SAB's control cable variations include harmonized hook-up wire and cordage, silicone high temperature, and halogen-free cables.



Features:

- Flexible for easy installation
- Chemical and wash down resistant
- NFPA 79 compliant
- Abrasion and notch resistant
- Easy to crimp conductors
- Can be routed around tight bends and fit into confined spaces
- Hook-up wire & cordage per European standards





CONTROL & CONNECTION CABLES

PVC Control & Connection Cables

■ CC 600		Oil resistant 90°C flexible control cable with black conductors	8
■ CC 600 CY		Oil resistant 90°C flexible shielded control cable	9





PUR Control & Connection Cables

■ CC 600 P		Oil resistant, tear resistant, flexible PUR control cable with black conductors.	10
■ CC 600 CP		Oil resistant, tear resistant, shielded flexible PUR control cable with black conductors	11



Additional control cables are available on our website and in the full line catalog (Section A)




Hook-up wire

■ 05V-K/MTW/TEW		PVC hook-up wire, machine tool wire, thermoplastic equipment wire, 300/500 V, 26 AWG - 22 AWG	12
■ H05V-K/MTW/TEW		Harmonized PVC hook-up wire tri-rated, machine tool wire, thermoplastic equipment wire, 300/500 V, 20 AWG - 18 AWG	12
■ H07V-K/MTW/TEW		Harmonized PVC hook-up wire tri-rated, machine tool wire, thermoplastic equipment wire, 450/750 V, 16 AWG - 2 AWG	12
■ H07V-K/MTW/TEW		Harmonized PVC hook-up wire, machine tool wire, thermoplastic equipment wire, 450/750 V, 1 AWG - 4/0 AWG	12

Halogen-free Single Conductor Cables

■ SABIX® A 147 FRNC		Low smoke, halogen-free wiring cable 600 V	13
■ SABIX® A 157 FRNC		Low smoke, halogen-free wiring cable 1000 V	13

Heavy Duty European Standardized Cables

■ H07RN-F		Heavy duty neoprene jacketed harmonized cordage 450/750V	14
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Additional European standardized cables are available on our website and in the full line catalog (Section H)

Additional halogen-free cables are available on our website and in the full line catalog (Section K)





SILICONE JACKETED HIGH TEMPERATURE CABLES

Features:

- Suitable for areas with high ambient temperatures in dry, damp or wet areas
- Resist temperatures as low as -50°C
- Resist high temperatures up to +180°C for continuous operation and up to +250°C for short periods.
- Continuous flex versions available



Silicone Jacketed High Temperature Cables with UL Recognition, CSA Approval

■ SC 600 HDTR		SABIX® insulated conductors with silicone outer jacket	15
■ SC 600 C HDTR		Shielded SABIX® insulated conductors with silicone outer jacket	16

Additional high temperature cables are available on our website and in the full line catalog (Section I)





HALOGEN-FREE CABLES

Features:

- Designed not to give off corrosive gases in case of fire.
- Over 30 different SABIX® compounds available to meet your specific application.



Halogen-free Control Cables with UL Recognition, CSA Approval

■ SABIX® CC 625 FRNC M		Control cable with numbered conductors	17
■ SABIX® CC 625 S FRNC M		Control cable with numbered conductors and overall tinned copper shield	18

Additional halogen-free cables are available on our website and in the full line catalog (Section K)

Cables for Industrial Automation

CC 600

Oil Resistant 90°C flexible control cable with black conductors



Marking for CC 600 2041604:

SAB BRÖCKSKES · D-VIERSEN · <VDE-REG 7000> 4x1.5mm² CC 600 16 AWG/4c 2041604 AWM Style 21216 90°C Oil 60°C 600V CSA AWM I/II A/B 90°C F 600V FT1 FT2 CE

Construction:

Conductor: AWG 20 - 10:	bare copper strands acc. to IEC 60228, VDE 0295, class 5
AWG 8 - 1:	bare copper strands acc. to UL/CSA
Insulation:	special PVC acc. to VDE and UL/CSA
Color code:	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green/yellow ground from 3 conductors
Stranding:	in layers
Jacket material:	special oil resistant PVC acc. to VDE and UL/CSA
Jacket color:	gray (RAL 7000)

Outstanding features:

- UL recognized, CSA approved
- high mechanical loading capacity
- oil resistant
- AWG 20 - AWG 10 built acc. to VDE-Reg. no. 7000

Technical data:

Nominal voltage:	U ₀ /U 300/500 V
Voltage UL/CSA:	600 V
Testing voltage:	conductor/conductor: 3000 V
Min. bending radius: fixed installation: free movement:	4 x O.D. 6 x O.D.
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range: static: flexible:	DIN VDE UL/CSA: up to +90°C -40/+70°C +5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL VW-1, CSA FT1, FT2
Oil resistance:	very good - TM5 acc. to EN 50363-4-1 + VDE 0207-363-4-1, Oil 60°C acc. to UL 758, Fuel Oil acc. to CSA-C 22.2 No. 210
Chemical resistance:	see page O/11, in full line catalog
Approvals:	UR AWM, CSA AWM, CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30 in full line catalog

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 20 AWG (≈ 16/32) • 0.50 mm ²				
2042002	2	0.209	5.3	28
2042003	3	0.220	5.6	32
2042004	4	0.236	6.0	38
2042005	5	0.264	6.7	47
2042007	7	0.283	7.2	58
2042008	8	0.335	8.5	73
2042009	9	0.362	9.2	84
2042010	10	0.370	9.4	85
2042012	12	0.382	9.7	96
2042014	14	0.398	10.1	108
2042016	16	0.429	10.9	125
2042018	18	0.449	11.4	138
2042025	25	0.547	13.9	189
2042034	34	0.614	15.6	249
2042041	41	0.665	16.9	287
2042061	61	0.780	19.8	422
▶ 18 AWG (≈ 30/32) • 1.00 mm ²				
2041802	2	0.236	6.0	37
2041803	3	0.252	6.4	46
2041804	4	0.276	7.0	55
2041805	5	0.307	7.8	69
2041807	7	0.335	8.5	86
2041809	9	0.425	10.8	122
2041810	10	0.433	11.0	125
2041812	12	0.445	11.3	142
2041814	14	0.476	12.1	165
2041815	15	0.500	12.7	180
2041818	18	0.535	13.6	209
2041825	25	0.646	16.4	285
2041834	34	0.728	18.5	376
2041841	41	0.783	19.9	434
2041850	50	0.882	22.4	533
2041861	61	0.933	23.7	649

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 16 AWG (≈ 27-29/30) • 1.50 mm ²				
2041602	2	0.264	6.7	48
2041603	3	0.280	7.1	58
2041604	4	0.311	7.9	73
2041605	5	0.339	8.6	88
2041607	7	0.378	9.6	115
2041608	8	0.441	11.2	140
2041609	9	0.480	12.2	162
2041612	12	0.504	12.8	189
2041615	15	0.563	14.3	229
2041618	18	0.602	15.3	277
2041625	25	0.728	18.5	382
2041630	30	0.760	19.3	448
2041634	34	0.827	21.0	511
2041641	41	0.902	22.9	597
2041650	50	0.980	24.9	714
2041661	61	1.051	26.7	880
▶ 14 AWG (≈ 46/30) • 2.50 mm ²				
2041402	2	0.319	8.1	73
2041403	3	0.339	8.6	89
2041404	4	0.374	9.5	112
2041405	5	0.417	10.6	140
2041407	7	0.457	11.6	177
2041409	9	0.587	14.9	267
2041412	12	0.618	15.7	296
2041418	18	0.736	18.7	432
2041425	25	0.909	23.1	607

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 12 AWG (≈ 52/28) • 4.00 mm ²				
2041203	3	0.402	10.2	132
2041204	4	0.445	11.3	165
2041205	5	0.496	12.6	204
2041207	7	0.547	13.9	267
2041212	12	0.740	18.8	447
▶ 10 AWG (≈ 78/28) • 6.00 mm ²				
2041003	3	0.476	12.1	191
2041004	4	0.520	13.2	236
2041005	5	0.587	14.9	296
2041007	7	0.669	17.0	403
▶ 8 AWG (≈ 69/26)				
2040803	3	0.602	15.3	302
2040804*	4	0.669	17.0	383
2040805	5	0.744	18.9	468
▶ 6 AWG (≈ 110/26)				
2040604	4	0.823	20.9	568
2040605	5	0.929	23.6	651
▶ 4 AWG (≈ 175/26)				
2040404	4	1.008	25.6	914
▶ 2 AWG (≈ 272/26)				
2040204	4	1.197	30.4	1349
▶ 1 AWG (≈ 342/26)				
2040104	4	1.307	33.2	1656

Other dimensions and colors are available on request
* 2040804 is built acc. to VDE-Reg no. 7000
with class 5 copper strands



also available with blue, red or
orange conductors and black
or orange jacket

Cables for Industrial Automation

CC 600 CY

Oil Resistant 90°C flexible shielded control cable



Marking for CC 600 CY 2591804:

SAB BRÖCKSKES · D-VIERSEN · <VDE-REG 7000> 4x1.0mm² CC 600 CY 18 AWG/4c 2591804 AWM Style 21216 90°C 600V Oil 60°C CSA AWM I/II A/B 90°C F 600V FT1 FT2 CE

Construction:

Conductor: AWG 20 - 10:	bare copper strands acc. to IEC 60228, VDE 0295, class 5
AWG 8 - 1:	bare copper strands acc. to UL/CSA
Insulation:	special PVC acc. to VDE and UL/CSA
Color code:	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green/yellow ground from 3 conductors
Stranding:	in layers
Inner Jacket:	special PVC acc. to VDE and UL/CSA
Shielding:	tinned copper braiding
Jacket material:	special oil resistant PVC acc. to VDE and UL/CSA
Jacket color:	gray (RAL 7000)

Outstanding features:

- UL recognized, CSA approved
- high mechanical loading capacity
- oil resistant
- AWG 20 - AWG 10:
built acc. to VDE-Reg. no. 7000
- good EMC characteristics

Technical data:

Nominal voltage:	U ₀ /U 300/500 V
Voltage UL/CSA:	600 V
Testing voltage:	conductor/conductor: 3000 V conductor/shielding: 2000 V
Min. bending radius: <i>fixed installation:</i> <i>free movement:</i>	5 x O.D. 10 x O.D.
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range: <i>static:</i> <i>flexible:</i>	DIN VDE -40/+70°C UL/CSA: up to +90°C +5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL VW-1, CSA FT1, FT2
Oil resistance:	very good - PVC, TM5 acc. to DIN VDE 0281 part 1 + HD 21.1, Oil 60°C acc. to UL 758, Fuel Oil acc. to CSA-C 22.2 No. 210
Chemical resistance:	see page O/11 in full line catalog
Approvals:	UR AWM, CSA AWM, CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30 in full line catalog in full line catalog

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 20 AWG (≈ 16/32) ▪ 0.50 mm ²				
2592002	2	0.291	7.4	55
2592003	3	0.311	7.9	64
2592004	4	0.331	8.4	73
2592005	5	0.358	9.1	85
2592007	7	0.378	9.6	98
2592010	10	0.469	11.9	148
2592012	12	0.492	12.5	163
2592025	25	0.657	16.7	288
▶ 18 AWG (≈ 30/32) ▪ 1.0 mm ²				
2591802	2	0.327	8.3	71
2591803	3	0.339	8.6	79
2591804	4	0.370	9.4	95
2591805	5	0.402	10.2	117
2591807	7	0.437	11.1	140
2591809	9	0.535	13.6	195
2591812	12	0.555	14.1	218
2591818	18	0.642	16.3	310
2591825	25	0.772	19.6	411

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 16 AWG (≈ 27-29/30) ▪ 1.50 mm ²				
2591602	2	0.358	9.1	87
2591603	3	0.374	9.5	98
2591604	4	0.406	10.3	122
2591605	5	0.433	11.0	144
2591607	7	0.480	12.2	176
2591612	12	0.614	15.6	274
2591618	18	0.724	18.4	394
2591625	25	0.878	22.3	548
▶ 14 AWG (≈ 46/30) ▪ 2.50 mm ²				
2591403	3	0.441	11.2	144
2591404	4	0.476	12.1	172
2591405	5	0.520	13.2	206
2591407	7	0.567	14.4	256
2591412	12	0.744	18.9	418
2591418	18	0.874	22.2	585
2591425	25	1.028	26.1	773

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 12 AWG (≈ 52/28) ▪ 4.00 mm ²				
2591203	3	0.512	13.0	201
2591204	4	0.555	14.1	243
2591205	5	0.602	15.3	285
2591207	7	0.665	16.9	372
▶ 10 AWG (≈ 78/28) ▪ 6.00 mm ²				
2591003	3	0.587	14.9	273
2591004	4	0.630	16.0	323
2591005	5	0.705	17.9	406
2591007	7	0.772	19.6	511
▶ 8 AWG (≈ 69/26)				
2590804	4	0.807	20.5	531
▶ 6 AWG (≈ 110/26)				
2590604	4	0.957	24.3	746
▶ 4 AWG (≈ 175/26)				
2590404	4	1.157	29.4	1144
▶ 2 AWG (≈ 272/26)				
2590204	4	1.346	34.2	1564
▶ 1 AWG (≈ 342/26)				
2590104	4	1.441	36.6	1882

Other dimensions and colors are available on request



also available with blue, red
or orange conductors and
black or orange jacket

Cables for Industrial Automation

CC 600 P

Oil resistant, tear resistant, flexible polyurethane control cable with black conductors



Marking for CC 600 P 2611604:

SAB BRÖCKSKES · D-VIERSEN · 2610415 4x1.5mm² CC 600 P 16 AWG/4c 2611604 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, class 5
Insulation:	PVC, TI2 acc. to EN 50363-3 + VDE 0207-363-3
Color code:	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green/yellow ground from 3 conductors
Stranding:	in layers
Inner jacket:	from 12 AWG: PVC, TM2 acc. to EN 50363-3 + VDE 0207-363-3
Jacket material:	PU acc. to UL 758
Jacket color:	gray (RAL 7000)

Outstanding features:

- UL recognized, CSA approved
- oil resistant
- abrasion resistant
- notch resistant
- good chemical resistance

Technical data:

Nominal voltage:	U ₀ /U 300/500 V
Voltage UL/CSA:	600 V
Testing voltage:	conductor/conductor: 2000 V
Min. bending radius:	
fixed installation:	4 x O.D.
free movement:	6 x O.D.
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range:	DIN VDE UL/CSA: up to +80°C
static:	-40/+70°C
flexible:	+5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL VW-1, CSA FT1, FT2
Oil resistance:	very good - oil rating 60°C acc to UL 1581
Chemical resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Approvals:	UR AWM, CSA AWM, CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30 in full line catalog

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
► 20 AWG (≈ 16/32) • 0.50 mm ²				
2612002	2	0.244	6.2	32
2612003	3	0.252	6.4	38
2612004	4	0.268	6.8	44
2612005	5	0.291	7.4	53
2612007	7	0.311	7.9	65
2612012	12	0.398	10.1	97
2612018	18	0.457	11.6	136
2612025	25	0.539	13.7	178
2612034	34	0.598	15.2	233
2612050	50	0.709	18.0	331
► 18 AWG (≈ 30/32) • 1.00 mm ²				
2611802	2	0.272	6.9	43
2611803	3	0.280	7.1	51
2611804	4	0.303	7.7	61
2611805	5	0.327	8.3	74
2611807	7	0.378	9.6	99
2611812	12	0.453	11.5	139
2611818	18	0.528	13.4	200
2611825	25	0.630	16.0	267
2611830	30	0.657	16.7	312
2611834	34	0.709	18.0	355
2611842	42	0.756	19.2	431
2611850	50	0.886	22.5	542

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
► 16 AWG (≈ 27-29/30) • 1.50 mm ²				
2611602	2	0.295	7.5	53
2611603	3	0.307	7.8	65
2611604	4	0.331	8.4	78
2611605	5	0.358	9.1	94
2611607	7	0.417	10.6	128
2611612	12	0.504	12.8	182
2611618	18	0.587	14.9	263
2611625	25	0.709	18.0	360
2611630	30	0.732	18.6	420
2611634	34	0.791	20.1	528
2611642	42	0.902	22.9	629
2611650	50	0.984	25.0	726
► 14 AWG (≈ 46/30) • 2.50 mm ²				
2611402	2	0.343	8.7	75
2611403	3	0.358	9.1	94
2611404	4	0.386	9.8	114
2611405	5	0.421	10.7	140
2611407	7	0.496	12.6	194
2611412	12	0.602	15.3	277
2611418	18	0.717	18.2	412
2611425	25	0.913	23.2	595

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
► 12 AWG (≈ 52/28) • 4.00 mm ²				
2611203	3	0.469	11.9	157
2611204	4	0.512	13.0	194
2611205	5	0.547	13.9	230
► 10 AWG (≈ 78/28) • 6.00 mm ²				
2611004	4	0.579	14.7	264
2611005	5	0.634	16.1	324
► 8 AWG (≈ 69/26)				
2610804	4	0.728	18.5	433

Other dimensions and colors are available on request



also available with blue
or red conductors and black
or orange jacket

Cables for Industrial Automation

CC 600 CP

Oil resistant, tear resistant, shielded flexible polyurethane control cable with black conductors



Marking for CC 600 CP 2811604:

SAB BRÖCKSKES · D-VIERSEN · 2810415 4x1.5mm² CC 600 CP 16 AWG/4c 2811604 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, class 5
Insulation:	PVC, TI2 acc. to EN 50363-3 + VDE 0207-363-3
Color code:	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green/yellow ground from 3 conductors
Stranding:	in layers
Wrapping:	PETP foil
Shielding:	tinned copper braiding
Wrapping:	non-woven tape
Jacket materials:	PU acc. to UL 758
Jacket color:	gray (RAL 7000)

Outstanding features:

- UL recognized, CSA approved
- oil resistant
- abrasion resistant
- notch resistant
- good chemical resistance

Technical data:

Nominal voltage:	U ₀ /U 300/500 V
Voltage UL/CSA:	600 V
Testing voltage:	conductor/conductor: 2000 V conductor/shielding: 2000 V
Min. bending radius: <i>fixed installation:</i> <i>free movement:</i>	5 x O.D. 10 x O.D.
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range: <i>static:</i> <i>flexible:</i>	DIN VDE UL/CSA: up to +80°C -40/+70°C +5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2 UL VW-1, CSA FT1, FT2
Oil resistance:	very good - oil rating 60° C acc to UL 1581
Chemical resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Approvals:	UR AWM, CSA AWM, CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30 in full line catalog

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 20 AWG (≈ 16/32) • 0.50 mm ²				
2812002	2	0.264	6.7	42
2812003	3	0.276	7.0	47
2812004	4	0.291	7.4	54
2812005	5	0.315	8.0	64
2812007	7	0.335	8.5	75
2812012	12	0.417	10.6	112
2812018	18	0.488	12.4	165
2812025	25	0.567	14.4	211
▶ 19 AWG (≈ 23/32) • 0.75 mm ²				
2811902	2	0.283	7.2	48
2811903	3	0.295	7.5	55
2811904	4	0.315	8.0	64
2811905	5	0.339	8.6	75
2811907	7	0.390	9.9	99
2811912	12	0.465	11.8	147
2811918	18	0.531	13.5	200
2811925	25	0.646	16.4	278

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 18 AWG (≈ 30/32) • 1.00 mm ²				
2811802	2	0.291	7.4	53
2811803	3	0.303	7.7	61
2811804	4	0.327	8.3	72
2811805	5	0.350	8.9	85
2811807	7	0.402	10.2	113
2811809	9	0.457	11.6	135
2811812	12	0.480	12.2	167
2811818	18	0.555	14.1	233
2811825	25	0.669	17.0	324
2811850	50	0.917	23.3	595
▶ 16 AWG (≈ 27-29/30) • 1.50 mm ²				
2811603	3	0.331	8.4	75
2811604	4	0.354	9.0	89
2811605	5	0.382	9.7	107
2811607	7	0.449	11.4	151
2811612	12	0.531	13.5	212
2811618	18	0.634	16.1	319
2811625	25	0.744	18.9	421

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 14 AWG (≈ 46/30) • 2.50 mm ²				
2811403	3	0.382	9.7	106
2811404	4	0.409	10.4	127
2811405	5	0.453	11.5	161
2811407	7	0.528	13.4	219
2811409	9	0.614	15.6	265
2811412	12	0.650	16.5	333
2811418	18	0.752	19.1	473
2811425	25	0.949	24.1	667
▶ 12 AWG (≈ 52/28) • 4.00 mm ²				
2811203	3	0.445	11.3	156
2811204	4	0.480	12.2	189
2811205	5	0.524	13.3	228
▶ 10 AWG (≈ 78/28) • 6.00 mm ²				
2811003	3	0.516	13.1	217
2811004	4	0.559	14.2	265
2811005	5	0.618	15.7	335
▶ 8 AWG (≈ 69/26)				
2810804	4	0.748	19.0	465

Other dimensions and colors are available on request



Drain wire available upon request.
Also available with blue or red
conductors and black or
orange jacket

Cables for Industrial Automation

05V-K/H05V-K/MTW/TEW Harmonized PVC hook-up wire tri-rated, 300/500 V

H07V-K/MTW/TEW Harmonized PVC hook-up wire tri-rated, 450/750 V



600V AWM Style 1015/10519 105°C 600V VW-1 CSA Type TEW 105°C 600V FT1 CE



Marking for H05V-K/MTW/TEW 31660180:

SAB BRÖCKSKES · D-VIERSEN · <VDE> <HAR> H05V-K 1.0mm² 18 AWG (UL) Type MTW 600V AWM Style 1015/10519 105°C 600V VW-1 CSA Type TEW 105°C 600V FT1 CE

Construction:

Conductor:	tinned copper strands acc. to IEC 60228, VDE 0295, class 5
Insulation:	PVC, TI2 acc. to EN 50363-3 + VDE 0207-363-3
Color code:	see color code chart below

Outstanding features:

- flexing single conductor
- harmonized acc. to European standards
- MTW (Machine Tool Wire)
- TEW (Thermoplastic Equipment Wire)
- H05V-K & H07V-K: with reference to BS 6231 type BK

Technical data:

Nominal voltage:	05V-K & H05V-K U _o /U 300/500 V		H07V-K U _o /U 450/750 V
Voltage UL/CSA:	600 V		
Testing voltage:	05V-K & H05V-K 2000 V		H07V-K 2500 V
Min. bending radius:	4 x O.D.		
Temperature range: <i>static:</i> <i>flexible:</i>	DIN VDE -40/+70°C +5/+70°C	UL-AWM/CSA up to +105°C up to +105°C	(UL) MTW up to +90°C up to +90°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL VW-1, CSA FT1		
Approvals: 05V-K/MTW/TEW:	<u>26 - 24 AWG:</u> UR AWM, CSA, CE, RoHS <u>22 AWG:</u> UL MTW, UR AWM, CSA, CE, RoHS		
H05V-K/MTW/TEW:	HAR, UL MTW, UR AWM, CSA, CE, RoHS		
H07V-K/MTW/TEW:	<u>16 - 2 AWG:</u> HAR, UL MTW, UR AWM, CSA, CE, RoHS <u>1 - 4/0 AWG:</u> UL MTW, UR AWM, CSA, CE, RoHS		
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30 in full line catalog		

05V-K/MTW/TEW - UL/CSA/CE

item no.	mm ²	AWG	nominal outer-ø		cable weight
			inch	mm	≈lbs/mft
▶ 3166 .. 14*	0.14	26 (≈ 18/38)	0.079	2.0	4
▶ 3166 .. 25*	0.25	24 (≈ 14/34)	0.087	2.2	5
▶ 3166 .. 34	0.34	22 (≈ 7/30)	0.091	2.3	6

* without MTW

Other colors are available on request

H07V-K/MTW/TEW - HAR/UL/CSA/CE

item no.	mm ²	AWG	nominal outer-ø		cable weight
			inch	mm	≈lbs/mft
▶ 3167 .. 82	1.50	16 (≈ 27/30)	0.122	3.1	13
▶ 3167 .. 84	2.50	14 (≈ 46/30)	0.146	3.7	22
▶ 3167 .. 86	4.00	12 (≈ 52/28)	0.169	4.3	34
▶ 3167 .. 87	6.00	10 (≈ 78/28)	0.189	4.8	44
▶ 3167 .. 88	10.00	8 (≈ 77/26)	0.268	6.8	81
▶ 3167 .. 89	16.00	6 (≈ 122/26)	0.358	9.1	142
▶ 3167 .. 90	25.00	4 (≈ 190/26)	0.417	10.6	204
▶ 3167 .. 91	35.00	2 (≈ 272/26)	0.465	11.8	273

Other colors are available on request

H05V-K/MTW/TEW - HAR/UL/CSA/CE

item no.	mm ²	AWG	nominal outer-ø		cable weight
			inch	mm	≈lbs/mft
▶ 3166 .. 50	0.50	20 (≈ 16/32)	0.098	2.5	7
▶ 3166 .. 75	0.75	19 (≈ 23/32)	0.106	2.7	9
▶ 3166 .. 80	1.00	18 (≈ 30/32)	0.110	2.8	11

Other colors are available on request

H07V-K/MTW/TEW - UL/CSA/CE

item no.	mm ²	AWG	nominal outer-ø		cable weight
			inch	mm	≈lbs/mft
▶ 3167 .. 92	50.00	1 (≈ 400/26)	0.598	15.2	403
▶ 3167 .. 93	70.00	2/0 (≈ 543/26)	0.638	16.2	531
▶ 3167 .. 94	95.00	3/0 (≈ 484/24)	0.760	19.3	717
▶ 3167 .. 95	120.00	4/0 (≈ 589/24)	0.819	20.8	858

Other colors are available on request

Color code for single conductors:

01 = black	06 = green ¹	16 = dark blue
02 = blue	07 = violet	17 = pink
03 = brown	08 = white	27 = green/yellow
04 = gray	09 = orange	32 = blue/white ¹
05 = yellow ¹	11 = red	63 = white/blue ¹

¹Non <HAR> approved

Cables for Industrial Automation

SABIX® A 147 FRNC Wiring cable 600 V

SABIX® A 157 FRNC Wiring cable 1000 V



A 147 FRNC 300/500V 0.5 mm² 20 AWG AWM Style 10528 75°C 600V CE



Marking for SABIX® A 147 FRNC 61470150:

SAB BRÖCKSKES · D-VIERSEN · SABIX® A 147 FRNC 300/500V 0.5 mm² 20 AWG AWM Style 10528 75°C 600V CE

Construction:

Conductor:	tinned copper strands acc. to IEC 60228, VDE 0295, class 5
Insulation:	SABIX®
Color code:	colored, see table below

Outstanding features:

- low smoke halogen-free (LSHF)
- no flame propagation
- flame retardant and self-extinguishing
- UL recognition

Technical data:

Nominal voltage:	SABIX® A 147 FRNC: 20 - 18 AWG U ₀ /U 300/500 V	SABIX® A 157 FRNC: 16 AWG - 550 MCM U ₀ /U 450/750 V
Voltage UL:	SABIX® A 147 FRNC: 20 - 18 AWG 600 V	SABIX® A 157 FRNC: 16 AWG - 550 MCM 1000 V
Testing voltage:	SABIX® A 147 FRNC: 2000 V	SABIX® A 157 FRNC: 2500 V
Min. bending radius: For one single bend:	7.5 x O.D. 5 x O.D.	
Temperature range: static: flexible:	DIN/VDE: -40/+90°C -30/+90°C	UL: up to +75°C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1	
Burning characteristics:	No flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24 resp. IEC 60332-3-25 + VDE 0482-332-3-25 and EN 50305 + VDE 0260-305 section 9.1.2. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2	
Corrosivity:	in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases	
Smoke density:	acc. to IEC 61034 + VDE 0482-1034	
Flexibility:	good	
Approvals:	UR AWM, CE, EAC, RoHS	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30 in full line catalog	

SABIX® A 147 FRNC

item no.	mm ²	AWG	nominal outer-ø		cable weight
			inch ±5%	mm ±5%	≈lbs/mft
▶ 6147 .. 50	0.50	20 (≈ 16/32)	0.098	2.5	8
▶ 6147 .. 75	0.75	19 (≈ 23/32)	0.110	2.8	9
▶ 6147 .. 80	1.00	18 (≈ 30/32)	0.114	2.9	11

Other dimensions and colors are available on request

SABIX® A 157 FRNC

item no.	mm ²	AWG	nominal outer-ø		cable weight
		MCM	inch ±5%	mm ±5%	≈lbs/mft
▶ 6157 .. 82	1.50	16 (≈ 27-29/30)	0.126	3.2	15
▶ 6157 .. 84	2.50	14 (≈ 46/30)	0.142	3.6	22
▶ 6157 .. 86	4.00	12 (≈ 52/28)	0.169	4.3	31
▶ 6157 .. 87	6.00	10 (≈ 78/28)	0.217	5.5	50
▶ 6157 .. 88	10.00	8 (≈ 77/26)	0.264	6.7	79
▶ 6157 .. 89	16.00	6 (≈ 122/26)	0.346	8.8	129
▶ 6157 .. 90	25.00	4 (≈ 190/26)	0.402	10.2	189
▶ 6157 .. 91	35.00	2 (≈ 272/26)	0.500	12.7	278
▶ 6157 .. 92	50.00	1 (≈ 400/26)	0.547	13.9	385
▶ 6157 .. 93	70.00	2/0 (≈ 543/26)	0.642	16.3	521
▶ 6157 .. 94	95.00	3/0 (≈ 484/24)	0.724	18.4	678
▶ 6157 .. 95	120.00	4/0 (≈ 589/24)	0.823	20.9	839
▶ 6157 .. 96	150.00	250 (≈ 740/24)	0.882	22.4	1029
▶ 6157 .. 97	185.00	350 (≈ 902/24)	0.984	25.0	1269
▶ 6157 .. 98	240.00	450 (≈ 1220/24)	1.114	28.3	1662
▶ 6157 .. 99	300.00	550 (≈ 1525/24)	1.220	31.0	2058

Other dimensions and colors are available on request

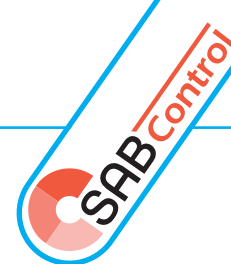
Color code for single conductors:

01 = black	07 = violet
02 = blue	08 = white
03 = brown	09 = orange
04 = gray	11 = red
05 = yellow	16 = gentian blue
06 = green	27 = green/yellow

Cables for Industrial Automation

H07RN-F

Heavy duty neoprene jacketed harmonized cordage 450/750 V



HAR CE RoHS

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, class 5
Insulation:	synthetic rubber, Type E14
Color code:	acc. to HD 308, see below
Stranding:	from 2 conductors stranded in layers
Jacket material:	synthetic rubber, EM2
Jacket color:	black

Technical data:

Nominal voltage:	U ₀ /U 450/750 V
Testing voltage:	2500 V
Min. bending radius:	6 x O.D.
Temperature range:	-25/+60°C
Approvals:	HAR, CE, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30 in full line catalog

Outstanding features:

- harmonized to European standards
- high mechanical loading capacity
- UV resistant

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 18 AWG (≈ 30/32) ▪ 1.00 mm ²				
39550210	2	0.327	8.3	67
39550310	3	0.350	8.9	81
39550410	4	0.382	9.7	87
39550510	5	0.433	11.0	114
▶ 16 AWG (≈ 27-29/30) ▪ 1.50 mm ²				
39550215	2	0.354	9.0	87
39550315	3	0.382	9.7	101
39550415	4	0.429	10.9	128
39550515	5	0.457	11.6	155
▶ 14 AWG (≈ 46/30) ▪ 2.50 mm ²				
39550225	2	0.409	10.4	128
39550325	3	0.449	11.4	148
39550425	4	0.512	13.0	188
39550525	5	0.563	14.3	228
▶ 12 AWG (≈ 52/28) ▪ 4.00 mm ²				
39550240	2	0.476	12.1	161
39550340	3	0.512	13.0	205
39550440	4	0.567	14.4	262
39550540	5	0.634	16.1	316
▶ 10 AWG (≈ 78/28) ▪ 6.00 mm ²				
39550160	1	0.323	8.2	94
39550260	2	0.539	13.7	195
39550360	3	0.575	14.6	333
39550460	4	0.650	16.5	349
39550560	5	0.713	18.1	430

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 8 AWG (≈ 77/26) ▪ 10.00 mm ²				
39550161	1	0.394	10.0	141
39550261	2	0.748	19.0	356
39550361	3	0.803	20.4	591
39550461	4	0.858	21.8	638
39550561	5	0.965	24.5	773
▶ 6 AWG (≈ 122/26) ▪ 16.00 mm ²				
39550162	1	0.441	11.2	195
39550262	2	0.843	21.4	491
39550362	3	0.902	22.9	847
39550462	4	0.965	24.5	941
39550562	5	1.075	27.3	1142
▶ 4 AWG (≈ 190/26) ▪ 25.00 mm ²				
39550163	1	0.508	12.9	276
39550263	2	1.012	25.7	665
39550363	3	1.079	27.4	979
39550463	4	1.197	30.4	1310
39550563	5	1.283	32.6	1613
▶ 2 AWG (≈ 272/26) ▪ 35.00 mm ²				
39550164	1	0.579	14.7	376
39550364	3	1.193	30.3	1282
39550464	4	1.323	33.6	1814
▶ 1 AWG (≈ 400/26) ▪ 50.00 mm ²				
39550165	1	0.677	17.2	497
39550365	3	1.386	35.2	1734
39550465	4	1.535	39.0	2419

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 2/0 AWG (≈ 543/26) ▪ 70.00 mm ²				
39550166	1	0.752	19.1	706
39550366	3	1.555	39.5	2305
39550466	4	1.728	43.9	2980
▶ 3/0 AWG (≈ 484/24) ▪ 95.00 mm ²				
39550167	1	0.850	21.6	874
39550367	3	1.772	45.0	2957
39550467	4	1.984	50.4	4166
▶ 4/0 AWG (≈ 589/24) ▪ 120.00 mm ²				
39550168	1	0.933	23.7	1048
▶ 250 MCM (≈ 740/24) ▪ 150.00 mm ²				
39550169	1	1.028	26.1	1335
▶ 350 MCM (≈ 902/24) ▪ 185.00 mm ²				
39550170	1	1.130	28.7	1546
▶ 450 MCM (≈ 1220/24) ▪ 240.00 mm ²				
39550171	1	1.256	31.9	2083
▶ 550 MCM (≈ 1525/24) ▪ 300.00 mm ²				
39550172	1	1.370	34.8	2345

Other dimensions and colors are available on request

HD 308 color code:

#1- nature, #2- blue-brown, #3- green/yellow - blue - brown, #4- green/yellow - brown - black - gray, #5- green/yellow - blue - brown - black - gray

Cables for Industrial Automation

SC 600 HDTR

SABIX® insulated conductors with silicone outer jacket



535 150°C 600V CSA AWM I/II A 150°C 600V FT1 FT2 CE

Marking for SC 600 HDTR 1271804:

SAB BRÖCKSKES · D-VIERSEN · SC 600 HDTR AWM Style 4535 150°C 600V CSA AWM I/II A 150°C 600V FT1 FT2 CE



Construction:

Conductor:	tinned copper strands acc. to IEC 60228, VDE 0295, class 5
Insulation:	SABIX®
Color code:	colored acc. to HD 308 (VDE 0293-308) see below, from 6 conductors- black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334 from 3 conductors- a green/yellow ground
Stranding:	in layers
Jacket material:	Besilen® better than EM9 acc. to EN 50363-2-1 + VDE 0207-363-2-1
Jacket color:	reddish brown (similar RAL 3016)

Outstanding features:

- halogen-free
- flexible at low temperatures
- heat resistant
- UL recognized and CSA approved

Technical data:

Nominal voltage:	U ₀ /U 300/500 V
Voltage UL/CSA:	600 V
Testing voltage:	conductor/conductor: 2000 V
Min. bending radius:	
<i>fixed installation:</i>	4 x O.D.
<i>free movement:</i>	6 x O.D.
Radiation resistance:	2 x 10 ⁷ cJ/kg
Temperature range:	
<i>static:</i>	DIN VDE -40/+180°C UL/CSA: +200°C (2000h) up to +150°C Style 4535
<i>flexible:</i>	-25/+180°C
<i>short-term use:</i>	+250°C
Halogen-free	acc. to IEC 60754-1 + VDE 0482-754-1
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, CSA FT1, FT2
Corrosivity:	IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases
Approvals:	UR AWM, CSA AWM, CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30 in full line catalog

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 20 AWG (≈ 16/32) • 0.50 mm ²				
1272002	2	0.220	5.6	26
1272003	3	0.232	5.9	30
1272004	4	0.248	6.3	36
1272005	5	0.272	6.9	42
1272007	7	0.295	7.5	53
1272008	8	0.339	8.6	61
1272010	10	0.366	9.3	73
1272012	12	0.378	9.6	83
1272016	16	0.417	10.6	105
1272018	18	0.441	11.2	117
1272024	24	0.516	13.1	161
▶ 19 AWG (≈ 23/32) • 0.75 mm ²				
1271902	2	0.232	5.9	31
1271903	3	0.252	6.4	36
1271904	4	0.272	6.9	44
1271905	5	0.299	7.6	52
1271907	7	0.323	8.2	66
1271908	8	0.374	9.5	76
1271910	10	0.406	10.3	91
1271912	12	0.417	10.6	104
1271916	16	0.465	11.8	132
1271918	18	0.492	12.5	148
1271924	24	0.583	14.8	206
▶ 18 AWG (≈ 30/32) • 1.00 mm ²				
1271802	2	0.248	6.3	34
1271803	3	0.260	6.6	42
1271804	4	0.283	7.2	50
1271805	5	0.307	7.8	60
1271807	7	0.335	8.5	77
1271808	8	0.386	9.8	89
1271810	10	0.421	10.7	106
1271812	12	0.433	11.0	122
1271816	16	0.480	12.2	157
1271818	18	0.512	13.0	176
1271824	24	0.626	15.9	255

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 16 AWG (≈ 27-29/30) • 1.50 mm ²				
1271602	2	0.280	7.1	46
1271603	3	0.295	7.5	56
1271604	4	0.315	8.0	67
1271605	5	0.350	8.9	81
1271607	7	0.382	9.7	105
1271608	8	0.449	11.4	122
1271610	10	0.496	12.6	150
1271612	12	0.512	13.0	173
1271616	16	0.583	14.8	229
1271618	18	0.614	15.6	255
1271624	24	0.724	18.4	339
▶ 14 AWG (≈ 46/30) • 2.50 mm ²				
1271402	2	0.335	8.5	68
1271403	3	0.354	9.0	85
1271404	4	0.386	9.8	104
1271405	5	0.437	11.1	129
1271407	7	0.476	12.1	168
1271408	8	0.563	14.3	197
1271410	10	0.622	15.8	241
1271412	12	0.642	16.3	279
1271416	16	0.720	18.3	363
1271418	18	0.760	19.3	403
1271424	24	0.913	23.2	597
▶ 12 AWG (≈ 52/28) • 4.00 mm ²				
1271202	2	0.382	9.7	91
1271203	3	0.417	10.6	124
1271204	4	0.457	11.6	155
1271205	5	0.508	12.9	189
1271207	7	0.555	14.1	248
▶ 10 AWG (≈ 78/28) • 6.00 mm ²				
1271002	2	0.441	11.2	134
1271003	3	0.461	11.7	167
1271004	4	0.512	13.0	212
1271005	5	0.563	14.3	256
1271007	7	0.630	16.0	348

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 8 AWG (≈ 77/26) • 10.00 mm ²				
1270802	2	0.575	14.6	228
1270803	3	0.610	15.5	291
1270804	4	0.669	17.0	363
1270805	5	0.744	18.9	443
1270807	7	0.831	21.1	601
▶ 6 AWG (≈ 122/26) • 16.00 mm ²				
1270602	2	0.669	17.0	329
1270603	3	0.736	18.7	429
1270604	4	0.807	20.5	537
1270605	5	0.823	20.9	650
1270607	7	1.012	25.7	893
▶ 4 AWG (≈ 190/26) • 25.00 mm ²				
1270402	2	0.850	21.6	518
1270403	3	0.906	23.0	665
1270404	4	1.008	25.6	849
▶ 2 AWG (≈ 77/26) • 35.00 mm ²				
1270202	2	0.976	24.8	722
1270203	3	1.039	26.4	935
1270204	4	1.142	29.0	1181

Other dimensions and colors are available on request

HD 308 color code:

#1- nature, #2- blue-brown, #3- green/yellow - blue - brown, #4- green/yellow - brown - black - gray, #5- green/yellow - blue - brown - black - gray



**Temperature range
up to +200°C
Style 4511 with nickel
or silver plated
copper strands.**

Cables for Industrial Automation

SC 600 C HDTR

Shielded SABIX® insulated conductors with silicone outer jacket



Marking for SC 600 C HDTR 1241804:

SAB BRÖCKSKES · D-VIERSEN · SC 600 C HDTR AWM Style 4535 150°C 600V CSA AWM I/II A 150°C 600V FT1 FT2 CE

Construction:

Conductor:	tinned copper strands acc. to IEC 60228, VDE 0295, class 5
Insulation:	SABIX®
Color code:	colored acc. to HD 308 (VDE 0293-308) see below, from 6 conductors- black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334 from 3 conductors- a green/yellow ground
Stranding:	in layers
Inner jacket:	Besilen® EM9 acc. to EN 50363-2-1 + VDE 0207-363-2-1
Shielding:	tinned copper braiding
Jacket material:	Besilen® better than EM9 acc. to EN 50363-2-1 + VDE 0207-363-2-1
Jacket color:	black (similar RAL 9011)

Outstanding features:

- good EMC characteristics
- halogen-free
- flexible at low temperatures
- heat resistant
- UL recognized and CSA approved

Technical data:

Nominal voltage:	U ₀ /U 300/500 V
Voltage UL/CSA:	600 V
Testing voltage:	conductor/conductor: 2000 V conductor/shielding: 2000 V
Min. bending radius:	<i>fixed installation:</i> 4 x O.D. <i>free movement:</i> 6 x O.D.
Radiation resistance:	2 x 10 ⁷ cJ/kg
Temperature range:	DIN VDE -40/+180°C <i>static:</i> +200°C (2000h) UL/CSA: up to +150°C Style 4535 <i>flexible:</i> -25/+180°C <i>short-term use:</i> +250°C
Halogen-free	acc. to IEC 60754-1 + VDE 0482-754-1
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, CSA FT1, FT2
Corrosivity:	IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases
Approvals:	UR AWM, CSA AWM, CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30 in full line catalog

item no.	no. of conductors incl. ground	nominal outer-ø inch mm	cable weight ≈lbs/mft
▶ 19 AWG (≈ 23/32) • 0.75 mm ²			
1241902	2	0.323 8.2	62
1241903	3	0.335 8.5	68
1241904	4	0.354 9.0	83
1241905	5	0.382 9.7	93
▶ 18 AWG (≈ 30/32) • 1.00 mm ²			
1241802	2	0.331 8.4	68
1241803	3	0.343 8.7	81
1241804	4	0.366 9.3	91
1241805	5	0.398 10.1	112
1241807	7	0.433 11.0	136

item no.	no. of conductors incl. ground	nominal outer-ø inch mm	cable weight ≈lbs/mft
▶ 16 AWG (≈ 27-29/30) • 1.50 mm ²			
1241602	2	0.370 9.4	87
1241603	3	0.394 10.0	110
1241604	4	0.425 10.8	129
1241605	5	0.457 11.6	158
1241607	7	0.504 12.8	186
▶ 14 AWG (≈ 46/30) • 2.50 mm ²			
1241402	2	0.441 11.2	141
1241403	3	0.461 11.7	157
1241404	4	0.508 12.9	189
1241405	5	0.563 14.3	226

item no.	no. of conductors incl. ground	nominal outer-ø inch mm	cable weight ≈lbs/mft
▶ 12 AWG (≈ 52/28) • 4.00 mm ²			
1241203	3	0.543 13.8	221
1241204	4	0.583 14.8	258
1241205	5	0.657 16.7	323
▶ 10 AWG (≈ 78/28) • 6.00 mm ²			
1241003	3	0.594 15.1	266
1241004	4	0.661 16.8	352
1241005	5	0.713 18.1	390

Other dimensions and colors are available on request

HD 308 color code:

#1- nature, #2- blue-brown, #3- green/yellow - blue - brown, #4- green/yellow - brown - black - gray, #5- green/yellow - blue - brown - black - gray

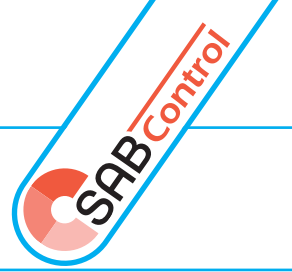


Temperature range up to +200°C
Style 4511 with nickel
or silver plated copper strands.

Cables for Industrial Automation

SABIX® CC 625 FRNC M

Control cable with numbered conductors



Marking for SABIX® CC 625 FRNC M 62521215:

SAB BRÖCKSKES · D-VIERSEN · 62521215 12 x 1.5 mm² SABIX® CC 625 FRNC M 16 AWG/12c 62521612 AWM Style 21089 75°C 600V CSA AWM I/II A/B 80°C 600V FT1 CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, class 5
Insulation:	SABIX®
Color code:	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green/yellow ground from 3 conductors
Stranding:	in layers
Jacket material:	SABIX®
Jacket color:	gray (RAL 7000)

Outstanding features:

- low smoke halogen-free (LSHF)
- UL recognized, CSA approved
- no flame propagation
- flame retardant and self-extinguishing
- flexible

Technical data:

Nominal voltage:	U ₀ /U 300/500 V
Voltage UL/CSA:	600 V
Testing voltage:	conductor/conductor: 3000 V
Min. bending radius:	
fixed installation:	4 x O.D.
free movement:	6 x O.D.
Temperature range:	UL: up to +75°C CSA: up to +80°C
static:	DIN VDE: -40/+90°C
flexible:	-30/+90°C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Burning characteristics:	no flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24 resp. IEC 60332-3-25 + VDE 0482-332-3-25 cat. C resp. D Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
Corrosivity:	in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + VDE 0482-1034
Flexibility:	good
Approvals:	UR AWM, CSA AWM, CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30 in full line catalog

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
► 20 AWG (≈ 16/32) • 0.50 mm ²				
62522002	2	0.205	5.2	27
62522003	3	0.217	5.5	32
62522004	4	0.232	5.9	38
62522005	5	0.252	6.4	44
62522007	7	0.276	7.0	56
62522008	8	0.323	8.2	70
62522009	9	0.350	8.9	79
62522010	10	0.358	9.1	81
62522012	12	0.366	9.3	91
62522014	14	0.386	9.8	103
62522016	16	0.413	10.5	119
62522018	18	0.437	11.1	132
62522025	25	0.531	13.5	181
62522030	30	0.547	13.9	208
62522034	34	0.598	15.2	239
62522040	40	0.650	16.5	283
62522041	41	0.650	16.5	288
62522061	61	0.760	19.3	409
► 18 AWG (≈ 30/32) • 1.00 mm ²				
62521802	2	0.232	5.9	36
62521803	3	0.248	6.3	44
62521804	4	0.268	6.8	54
62521805	5	0.295	7.5	65
62521807	7	0.323	8.2	83
62521808	8	0.378	9.6	102
62521809	9	0.413	10.5	116
62521810	10	0.421	10.7	120

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
62521812	12	0.433	11.0	137
62521814	14	0.453	11.5	155
62521818	18	0.512	13.0	198
62521825	25	0.622	15.8	271
62521830	30	0.654	16.6	320
62521834	34	0.709	18.0	365
62521840	40	0.768	19.5	429
62521841	41	0.768	19.5	454
62521861	61	0.902	22.9	626
► 16 AWG (≈ 27-29/30) • 1.50 mm ²				
62521602	2	0.256	6.5	46
62521603	3	0.272	6.9	57
62521604	4	0.299	7.6	71
62521605	5	0.327	8.3	87
62521607	7	0.366	9.3	112
62521608	8	0.429	10.9	136
62521609	9	0.465	11.8	153
62521610	10	0.476	12.1	161
62521612	12	0.488	12.4	184
62521614	14	0.512	13.0	209
62521618	18	0.587	14.9	271
62521625	25	0.713	18.1	375
62521630	30	0.736	18.7	435
62521634	34	0.807	20.5	502
62521640	40	0.874	22.2	587
62521641	41	0.874	22.2	593
62521661	61	1.024	26.0	861

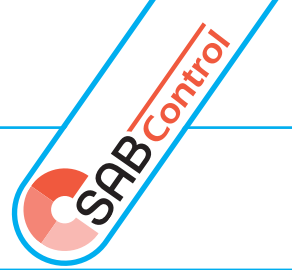
item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
► 14 AWG (≈ 46/30) • 2.50 mm ²				
62521402	2	0.307	7.8	70
62521403	3	0.327	8.3	86
62521404	4	0.362	9.2	108
62521405	5	0.398	10.1	131
62521407	7	0.441	11.2	173
62521408	8	0.528	13.4	212
62521409	9	0.563	14.3	234
62521410	10	0.583	14.8	252
62521412	12	0.602	15.3	290
62521418	18	0.717	18.2	425
62521425	25	0.878	22.3	585
► 12 AWG (≈ 52/28) • 4.00 mm ²				
62521203	3	0.382	9.7	126
62521204	4	0.425	10.8	160
62521205	5	0.476	12.1	198
62521207	7	0.528	13.4	261
► 10 AWG (≈ 78/28) • 6.00 mm ²				
62521003	3	0.449	11.4	182
62521004	4	0.500	12.7	230
62521005	5	0.559	14.2	286
► 8 AWG (≈ 77/26) • 10.00 mm ²				
62520804	4	0.677	17.2	409
62520805	5	0.760	19.3	508
► 6 AWG (≈ 122/26) • 16.00 mm ²				
62520604	4	0.831	21.1	611
► 4 AWG (≈ 190/26) • 25.00 mm ²				
62520404	4	1.043	26.5	991
► 2 AWG (≈ 272/26) • 35.00 mm ²				
62520204	4	1.189	30.2	1346

Other dimensions and colors are available on request

Cables for Industrial Automation

SABIX® CC 625 S FRNC M

Control cable with numbered conductors and overall tinned copper shield



21089 75°C 600V CSA AWM I/II A/B 80°C 600V FT1 CE



Marking for SABIX® CC 625 S FRNC M 62341612:

SAB BRÖCKSKES · D-VIERSEN · 62341215 12 x 1.5 mm² SABIX® CC 625 S FRNC M 16 AWG/12c 62341612 AWM Style 21089 75°C 600V CSA AWM I/II A/B 80°C 600V FT1 CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, class 5
Insulation:	SABIX®
Color code:	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green/yellow ground from 3 conductors
Stranding:	in layers
Wrapping:	PETP foil
Shielding:	tinned copper braiding
Jacket material:	SABIX®
Jacket color:	gray (RAL 7000)

Outstanding features:

- low smoke halogen-free (LSHF)
- UL recognized, CSA approved
- no flame propagation
- good EMC characteristics*
- flame retardant and self-extinguishing
- flexible

*copper braiding should be connected circularly to optimize the EMC characteristics

Technical data:

Nominal voltage:	U ₀ /U 300/500 V
Voltage UL/CSA:	600 V
Testing voltage:	conductor/conductor: 3000 V conductor/shielding: 2000 V
Min. bending radius: fixed installation: free movement:	5 x O.D. 10 x O.D.
Temperature range: static: flexible:	UL: up to +75°C CSA: up to +80°C DIN VDE: -40/+90°C -30/+90°C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Burning characteristics:	no flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24 resp. IEC 60332-3-25 + VDE 0482-332-3-25 cat. C resp. D Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
Corrosivity:	in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + VDE 0482-1034
Flexibility:	good
Approvals:	UR AWM, CSA AWM, CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30 in full line catalog

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
► 20 AWG (≈ 16/32) • 0.50 mm²				
62342002	2	0.224	5.7	30
62342003	3	0.236	6.0	36
62342004	4	0.252	6.4	43
62342005	5	0.276	7.0	51
62342007	7	0.299	7.6	65
62342008	8	0.350	8.9	81
62342009	9	0.370	9.4	88
62342010	10	0.378	9.6	91
62342012	12	0.386	9.8	102
62342014	14	0.421	10.7	126
62342016	16	0.441	11.2	138
62342018	18	0.472	12.0	157
62342025	25	0.543	13.8	206
62342030	30	0.591	15.0	243
62342034	34	0.642	16.3	288
62342040	40	0.693	17.6	338
62342041	41	0.693	17.6	345
62342061	61	0.795	20.2	466
► 18 AWG (≈ 30/32) • 1.00 mm²				
62341802	2	0.252	6.4	39
62341803	3	0.268	6.8	49
62341804	4	0.287	7.3	58
62341805	5	0.315	8.0	72
62341807	7	0.350	8.9	93
62341808	8	0.398	10.1	111
62341809	9	0.441	11.2	134
62341810	10	0.449	11.4	141

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
62341812	12	0.469	11.9	162
62341814	14	0.488	12.4	180
62341818	18	0.547	13.9	228
62341825	25	0.665	16.9	325
62341830	30	0.697	17.7	374
62341834	34	0.752	19.1	423
62341840	40	0.811	20.6	490
62341841	41	0.811	20.6	499
62341861	61	0.945	24.0	700
► 16 AWG (≈ 27-29/30) • 1.50 mm²				
62341602	2	0.276	7.0	48
62341603	3	0.295	7.5	62
62341604	4	0.319	8.1	76
62341605	5	0.354	9.0	93
62341607	7	0.386	9.8	120
62341608	8	0.465	11.8	159
62341609	9	0.492	12.5	174
62341610	10	0.504	12.8	183
62341612	12	0.524	13.3	210
62341614	14	0.547	13.9	238
62341618	18	0.622	15.8	312
62341625	25	0.756	19.2	433
62341630	30	0.780	19.8	493
62341634	34	0.843	21.4	561
62341640	40	0.909	23.1	647
62341641	41	0.909	23.1	653
62341661	61	1.067	27.1	943

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
► 14 AWG (≈ 46/30) • 2.50 mm²				
62341402	2	0.327	8.3	68
62341403	3	0.354	9.0	91
62341404	4	0.382	9.7	113
62341405	5	0.433	11.0	148
62341407	7	0.476	12.1	192
62341408	8	0.555	14.1	232
62341409	9	0.598	15.2	259
62341410	10	0.618	15.7	288
62341412	12	0.646	16.4	331
62341418	18	0.760	19.3	478
62341425	25	0.921	23.4	648
► 12 AWG (≈ 52/28) • 4.00 mm²				
62341203	3	0.417	10.6	138
62341204	4	0.453	11.5	172
62341205	5	0.504	12.8	212
62341207	7	0.555	14.1	277
► 10 AWG (≈ 78/28) • 6.00 mm²				
62341003	3	0.484	12.3	191
62341004	4	0.535	13.6	243
62341005	5	0.594	15.1	302
► 8 AWG (≈ 77/26) • 10.00 mm²				
62340804	4	0.720	18.3	427
62340805	5	0.795	20.2	526
► 6 AWG (≈ 122/26) • 16.00 mm²				
62340604	4	0.874	22.2	623
► 4 AWG (≈ 190/26) • 25.00 mm²				
62340404	4	1.079	27.4	974
► 2 AWG (≈ 272/26) • 35.00 mm²				
62340204	4	1.232	31.3	1316

Other dimensions and colors are available on request

Cables & Accessories for Industrial Automation

Production possibilities

Flexible cables and wires "Made in Germany"

As a leading manufacturer we develop and produce cables for industrial purposes. Our wide range of materials offer a lot of possibilities for your individual product requirement. The following survey shows an extract of our production possibilities:

Conductor Materials:

- ✓ bare copper
- ✓ tinned copper
- ✓ silver plated copper
- ✓ nickel plated copper
- ✓ nickel
- ✓ nickel pure
- ✓ compensating cable alloys

Insulation and Jacketing Materials:

- ✓ PVC
- ✓ Polyethylene
- ✓ Polypropylene
- ✓ Polyurethane
- ✓ TPE
- ✓ SABIX® (zero halogen)
- ✓ Besilen® - Silicone
- ✓ FEP, ETFE, PFA, PTFE
- ✓ PI foil
- ✓ Fiberglass

Temperature Ranges:

- Thermoplastic Elastomers
- ✓ -50°C up to +145°C
- SABIX®
- ✓ -50°C up to +220°C
- Besilen® - Silicone
- ✓ -40°C up to +220°C
- FEP, ETFE, PFA
- ✓ -90°C up to +260°C
- Fiberglass
- ✓ up to +600°C

Conductors:

- ✓ cross sections 0.055 - 300 mm²
- ✓ unshielded and shielded over 100 conductors

Cable assemblies directly from the manufacturer SAB:

As a full service partner, we are able to offer cable design and production as well as the manufacturing of cable assemblies according to customer's request. Please trust on our experience for decades in the treatment of cables and connectors.

- ✓ cable assemblies according to customer's demands
- ✓ complete cable assemblies
- ✓ UL certified assemblies
- ✓ helix cables
- ✓ HV measuring assemblies

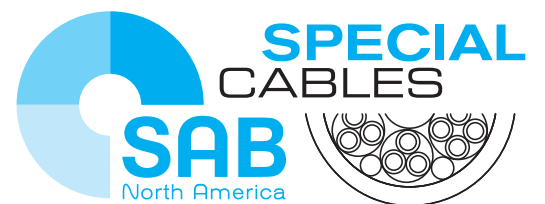
CABLE ASSEMBLIES

MEASUREMENT TECHNOLOGY

Measuring technology for industrial applications

Manufacturer of temperature sensors for industrial applications with 75 years of experience!

- ✓ mineral insulated thermocouples
- ✓ mineral insulated resistance thermometers
- ✓ temperature sensors
- ✓ mobile high voltage measuring technology
- ✓ temperature sensors for vehicle testing



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