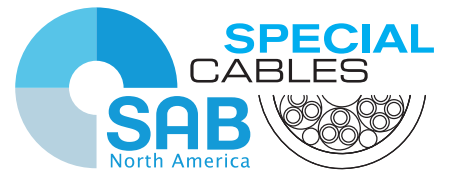
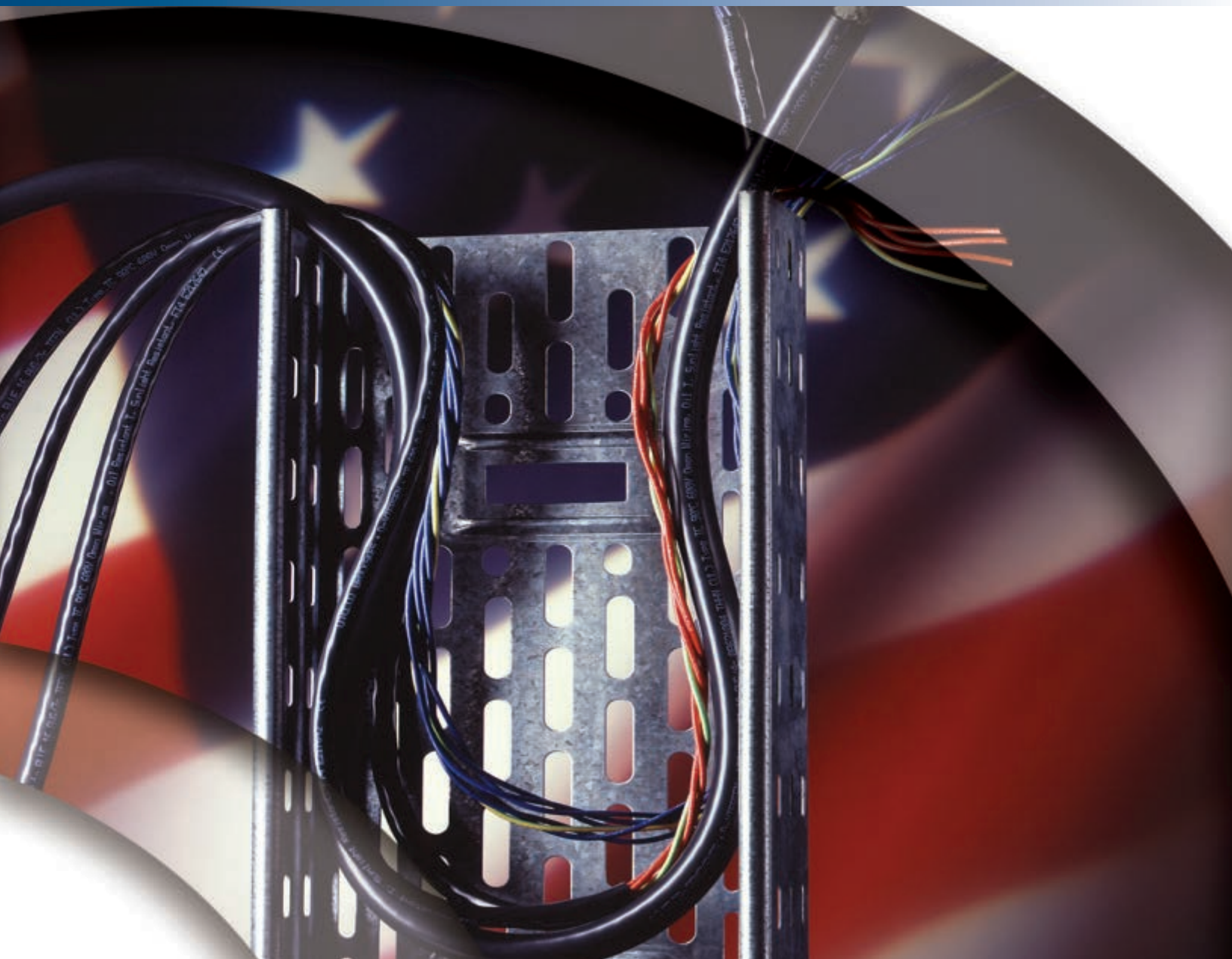


SPECIAL CABLES | CONTROL CABLES
CONTINUOUS FLEX CABLES | CABLE HARNESSING
TEMPERATURE MEASUREMENT



TRAY CABLES

FOR INDUSTRIAL APPLICATIONS



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SAB NORTH AMERICA

ABOUT US

SAB North America is a focused supplier for the automation, aerospace, medical, high temperature, and robotics industries, providing cable solutions that meet, exceed, and set new standards in the flexible cable market. In addition to flexible cable products, we offer an extensive inventory of high-quality cable accessories including cord grips, grounding glands and other accessories that complement our flexible control and automation cables.

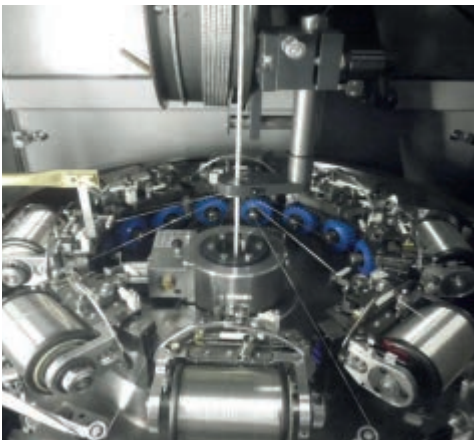
Whatever the need may be, look to SAB North America for Special Cables that can, for example, help minimize maintenance costs and increase productivity, reduce downtime, and solve specific problems. Here is a small sample of some of the challenges that Special Cables from SAB North America can help address:

- Hybrid designs for multiple functions
- Harsh environments
- Difficult applications
- Industry-specific requirements.



SAB North America offers a well-stocked line of UL and CSA-listed tray cables for use in control systems, machinery, conveyors, control panels, assembly and production lines and processing equipment. Each carries a Class 1 Division 2 explosion classification and a WTTC rating for wind turbines. The lineup features flexible versions as well as round cables that allow installers to pull more cables at a time, thereby avoiding a stiff, complicated setup.

SAB's level of speed and service as a supplier is unmatched. SAB lives up to its name in not only flexible cable but also flexible manufacturing. Special cables can be designed, manufactured and delivered in just 6-8 weeks, and even faster in special circumstances!



SAB Service Advantage...We make it Easy

- Cut to length with no cut charges
- Prepaid freight within US for orders over \$2,500
- Specialty cable designs (1500 ft minimum)
- No minimum on orders
- Free drop shipments (no surcharges)
- 24-hour shipments from stock
- Cord Grips for securing cables

SAB TRAY CABLE

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UV and Oil Resistant, Flexible Tray Cables

■ TR 600 S	600V UL TC-ER, MTW & CSA CIC/TC multi-conductor tray cable unshielded, PVC	8
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Heavy Duty Continuous Flex Tray Cables














■ TR 600 Auto HD	600V UL TC-ER, MTW & c(UL) CIC/TC multi-conductor tray cable unshielded, TPE	18
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SAB TRAY CABLE SELECTION CHART

															
		DC 105	DC 105 C	DC 105 C TP	TR 600 S	TR 600 S CY	TR 600 Plus	TR 600 CY Plus	TR 850 S	Tray HD TPE	TR 600 HD	TR 600 C HD	TR 600 Auto HD	TR 600 Auto C HD	
Conductors	Numbered conductors				X	X	X	X		X	X	X	X	X	
	Color code chart 2, 4 and 6	X	X												
	Color code chart 3			X											
Insulation	Colored								X						
	Semi-rigid PVC (26 -20 AWG)	X	X	X											
	PVC								X						
Shielding	PVC/nylon	X	X	X	X	X	X	X		X	X	X	X	X	
	Tinned Copper Braid					X						X		X	
	Foil & Tinned Copper Braid		X	X				X							
Jacket	Inner jacket											X			
	Gray Jacket	PVC	PVC	PVC	PVC	PVC				TPE					
	Black Jacket				PVC	PVC	PVC	PVC	TPE				TPE	TPE	
Temperature Range Static*	Orange Jacket										TPE	TPE			
	+ 105°C														
	+ 90°C														
	- 25°C														
Voltage	- 40°C														
	300 V	X	X	X											
	600 V				X	X	X	X	X	X	X	X	X	X	
	1000 V CSA AWM				X	X			X						
	1000 V (UL) WTTC				X	X	X	X	X	X	X	X	X	X	
Characteristics	Testing voltage 2000 V	X	X	X	X	X	X	X	X	X	X	X	X	X	
	Burning characteristics: FT1, FT4				X	X	X	X	X	X	X	X	X	X	
	Cold bend test -25°C	X	X	X											
	Cold bend test -40°C				X	X	X	X	X	X	X	X	X	X	
	Oil resistance I						X	X							
	Oil resistance I + II				X	X			X	X	X	X	X	X	
	Sunlight resistance				X	X	X	X	X		X	X	X	X	
	Exposed runs	X ¹	X ¹	X ¹	X	X	X	X	X	X	X	X	X	X	X
	Direct burial				X	X	X	X	X	X	X	X	X	X	X
	Machinery area	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Continuous Flex												X	X		

*The temperature range for flexing is mentioned on the product specification page.

¹ 18-16 AWG only

SAB TRAY CABLES

DC 105 Semi-rigid PVC data cable

Type PLTC, ITC, CMG, & CSA Approved

105°C (DC 105) - CSA TYPE CMG or AWM I/II A/B 105°C 300V FT4 RoHS CE



Marking for DC 105 DC3332203: SAB North America P/N DC3332203

22AWG/3c (UL) TYPE PLTC or ITC or CMG 105°C (DC 105) - CSA TYPE CMG or AWM I/II A/B 105°C 300V FT4 RoHS CE

DC 105 is an unshielded, multi-conductor signal and control cable recommended for use with computers, data transmission, office equipment, process control equipment and instrumentation. DC 105 has finer stranding for improved flexibility and is oil resistant.

Construction:

Conductor:	tinned copper strands
Insulation:	26 - 20 AWG semi-rigid PVC 18 - 16 AWG PVC/Nylon
Color code:	26 - 24 AWG color code chart 2 22 AWG color code chart 4 20 - 16 AWG color code chart 6
Stranding:	twisted together in layers with non-wicking fillers
Jacket material:	PVC
Jacket color:	gray

Technical data:

Nominal voltage:	300 V
Testing voltage:	2000 V
Min. bending radius fixed installation:	4 x O.D.
Temperature:	-25/+105°C
Approvals:	UL: CMG (UL PLTC & ITC 22 - 20 AWG) (UL PLTC-ER & ITC-ER 18- 16 AWG) CSA: CMG/FT4 AWM I/II A/B
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30 in full line catalog

Color Code chart 2

Conductor no.	Color	Conductor no.	Color
1	black	14	green/white
2	white	15	blue/white
3	red	16	black/red
4	green	17	white/red
5	orange	18	orange/red
6	blue	19	blue/red
7	white/black	20	red/green
8	red/black	21	orange/green
9	green/black	22	black/white/red
10	orange/black	23	white/black/red
11	blue/black	24	red/black/white
12	black/white	25	green/black/white
13	red/white		

Color Code chart 4

Conductor no.	Color	Conductor no.	Color
1	black	14	white/orange
2	brown	15	white/yellow
3	red	16	white/green
4	orange	17	white/blue
5	yellow	18	white/violet
6	green	19	white/gray
7	blue	20	white/black/brown
8	violet	21	white/black/red
9	gray	22	white/black/orange
10	white	23	white/black/yellow
11	white/black	24	white/black/green
12	white/brown	25	white/black/blue
13	white/red		

Color Code chart 6

Conductor no.	Color	Conductor no.	Color
1	black	14	red/yellow
2	red	15	red/black
3	white	16	white/black
4	green	17	white/red
5	orange	18	white/green
6	blue	19	white/yellow
7	brown	20	white/blue
8	yellow	21	white/brown
9	violet	22	white/orange
10	gray	23	white/gray
11	pink	24	white/violet
12	tan	25	white/black/red
13	red/green		

item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/ft	item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/ft
▶ 26 AWG (7/34)					▶ 20 AWG (19/32)				
DC3222603	3	0.156	4.0	18	DC3332002	2	0.196	5.0	29
DC3222604	4	0.166	4.2	20	DC3332003	3	0.205	5.2	35
DC3222606	6	0.189	4.8	25	DC3332004	4	0.220	5.6	42
DC3222607	7	0.192	4.9	26	DC3332006	6	0.254	6.5	55
DC3222608	8	0.204	5.2	28	DC3332007	7	0.254	6.5	52
DC3222610	10	0.230	5.8	36	DC3332008	8	0.275	7.0	62
DC3222615	15	0.261	6.6	48	DC3332009	9	0.303	7.7	74
DC3222620	20	0.295	7.5	58	DC3332010	10	0.325	8.3	80
DC3222625	25	0.324	8.2	70	DC3332012	12	0.335	8.5	92
▶ 24 AWG (7/32)					▶ 18 AWG (19/30)				
DC3222402	2	0.160	4.1	20	DC3331802	2	0.276	7.0	45
DC3222403	3	0.167	4.2	23	DC3331803	3	0.290	7.4	58
DC3222404	4	0.182	4.6	24	DC3331804	4	0.313	8.0	70
DC3222405	5	0.191	4.9	27	DC3331805	5	0.339	8.6	78
DC3222406	6	0.204	5.2	30	DC3331806	6	0.366	9.3	91
DC3222407	7	0.207	5.3	31	DC3331807	7	0.367	9.3	98
DC3222408	8	0.220	5.6	35	DC3331808	8	0.395	10.0	110
DC3222410	10	0.249	6.3	43	DC3331809	9	0.423	10.7	124
DC3222412	12	0.256	6.5	49	DC3331810	10	0.457	11.6	144
DC3222415	15	0.283	7.2	59	DC3331812	12	0.472	12.0	164
DC3222418	18	0.303	7.7	65	DC3331815	15	0.507	12.9	194
DC3222420	20	0.311	7.9	70	DC3331818	18	0.579	14.7	244
DC3222425	25	0.344	8.7	86	DC3331820	20	0.595	15.1	263
▶ 22 AWG (7/30)					▶ 16 AWG (26/30)				
DC3332202	2	0.178	4.5	22	DC3331602	2	0.296	7.5	54
DC3332203	3	0.190	4.8	25	DC3331603	3	0.312	7.9	68
DC3332204	4	0.202	5.1	29	DC3331604	4	0.337	8.6	83
DC3332205	5	0.213	5.4	34	DC3331605	5	0.366	9.3	95
DC3332206	6	0.228	5.8	40	DC3331606	6	0.396	10.1	109
DC3332207	7	0.231	5.9	41	DC3331607	7	0.397	10.1	119
DC3332208	8	0.245	6.2	46	DC3331608	8	0.428	10.9	134
DC3332209	9	0.261	6.6	53	DC3331609	9	0.459	11.7	160
DC3332210	10	0.289	7.3	60	DC3331610	10	0.497	12.6	174
DC3332212	12	0.297	7.5	67	DC3331612	12	0.513	13.0	199
DC3332215	15	0.317	8.1	79	DC3331615	15	0.584	14.8	261
DC3332218	18	0.339	8.6	87	DC3331618	18	0.629	16.0	297
DC3332220	20	0.348	8.8	94	DC3331620	20	0.647	16.4	330
DC3332225	25	0.385	9.8	117	DC3331625	25	0.721	18.3	400
DC3332230	30	0.430	10.9	143					
DC3332240	40	0.475	12.1	184					
DC3332250	50	0.517	13.1	221					



SAB TRAY CABLES

DC 105 C

Shielded semi-rigid PVC data cable

Type PLTC, ITC, CMG, & CSA Approved

CMG OR AWM I/II A/B 105°C 300V FT4 RoHS CE



Marking for DC 105 C DC3332204S: SAB North America P/N DC3332204S

22AWG/4c (UL) TYPE PLTC OR ITC OR CMG SHIELDED 105°C (DC 105 C) CSA TYPE CMG OR AWM I/II A/B 105°C 300V FT4 RoHS CE

DC 105 C is a shielded, multi-conductor signal and control cable recommended for data transmission, process control, and all other signal and data communications. It has an overall foil tape with drain wire and tinned copper braid that is recommended whenever electrical interference distorts signal transmissions, or when EMI emissions need to be suppressed. DC 105 C has finer stranding for improved flexibility and is oil resistant.

Construction:

Conductor:	tinned copper strands
Insulation:	26 - 20 AWG semi-rigid PVC 18 - 16 AWG PVC/Nylon
Color code:	26 - 24 AWG color code chart 2 22 AWG color code chart 4 20 - 16 AWG color code chart 6
Stranding:	twisted together in layers with non-wicking fillers
Screen:	double screen, alu-foil, tinned copper braiding and tinned drain wire
Jacket material:	PVC
Jacket color:	gray

Technical data:

Nominal voltage:	300 V
Testing voltage:	2000 V
Min. bending radius fixed installation:	6 x O.D.
Temperature:	-25/+105°C
Approvals:	UL: CMG (UL PLTC & ITC 22 - 20 AWG) (UL PLTC-ER & ITC-ER 18- 16 AWG) CSA: CMG/FT4 AWM I/II A/B
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30 in full line catalog

Color Code chart 2

Conductor no.	Color	Conductor no.	Color
1	black	14	green/white
2	white	15	blue/white
3	red	16	black/red
4	green	17	white/red
5	orange	18	orange/red
6	blue	19	blue/red
7	white/black	20	red/green
8	red/black	21	orange/green
9	green/black	22	black/white/red
10	orange/black	23	white/black/red
11	blue/black	24	red/black/white
12	black/white	25	green/black/white
13	red/white		

Color Code chart 4

Conductor no.	Color	Conductor no.	Color
1	black	14	white/orange
2	brown	15	white/yellow
3	red	16	white/green
4	orange	17	white/blue
5	yellow	18	white/violet
6	green	19	white/gray
7	blue	20	white/black/brown
8	violet	21	white/black/red
9	gray	22	white/black/orange
10	white	23	white/black/yellow
11	white/black	24	white/black/green
12	white/brown	25	white/black/blue
13	white/red		

Color Code chart 6

Conductor no.	Color	Conductor no.	Color
1	black	14	red/yellow
2	red	15	red/black
3	white	16	white/black
4	green	17	white/red
5	orange	18	white/green
6	blue	19	white/yellow
7	brown	20	white/blue
8	yellow	21	white/brown
9	violet	22	white/orange
10	gray	23	white/gray
11	pink	24	white/violet
12	tan	25	white/black/red
13	red/green		

item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 26 AWG (7/34)				
DC3222602S	2	0.180	4.6	27
DC3222603S	3	0.186	4.7	30
DC3222604S	4	0.196	5.0	32
DC3222605S	5	0.207	5.3	34
DC3222606S	6	0.219	5.6	37
DC3222607S	7	0.221	5.6	39
DC3222608S	8	0.231	5.9	43
DC3222610S	10	0.258	6.6	51
DC3222615S	15	0.289	7.3	66
DC3222618S	18	0.307	7.8	70
DC3222625S	25	0.343	8.7	88
▶ 24 AWG (7/32)				
DC3222403S	3	0.197	5.0	35
DC3222404S	4	0.209	5.3	36
DC3222405S	5	0.221	5.6	39
DC3222406S	6	0.234	5.9	45
DC3222407S	7	0.236	6.0	46
DC3222408S	8	0.248	6.3	51
DC3222409S	9	0.261	6.6	56
DC3222410S	10	0.288	7.3	62
DC3222412S	12	0.288	7.3	67
DC3222415S	15	0.312	7.9	80
DC3222418S	18	0.332	8.4	86
DC3222420S	20	0.340	8.6	92
DC3222425S	25	0.372	9.4	111
▶ 22 AWG (7/30)				
DC3332203S	3	0.210	5.3	40
DC3332204S	4	0.224	5.7	43
DC3332205S	5	0.237	6.0	49
DC3332206S	6	0.252	6.4	54
DC3332207S	7	0.260	6.6	57
DC3332208S	8	0.267	6.8	61
DC3332210S	10	0.312	7.9	77
DC3332212S	12	0.320	8.1	86
DC3332215S	15	0.339	8.6	99
DC3332218S	18	0.362	9.2	110
DC3332220S	20	0.371	9.4	118
DC3332225S	25	0.433	11.0	150
▶ 20 AWG (19/32)				
DC3332003S	3	0.229	5.8	51
DC3332004S	4	0.244	6.2	59
DC3332006S	6	0.289	7.3	73
DC3332008S	8	0.307	7.8	85
DC3332010S	10	0.348	8.8	102
DC3332015S	15	0.380	9.7	135
DC3332020S	20	0.437	11.1	169
DC3332025S	25	0.481	12.2	213
▶ 18 AWG (19/30)				
DC3331803S	3	0.314	8.0	79
DC3331804S	4	0.337	8.6	92
DC3331806S	6	0.390	9.9	116
▶ 16 AWG (26/30)				
DC3331603S	3	0.336	8.5	93
DC3331604S	4	0.361	9.2	111
DC3331606S	6	0.420	10.7	139

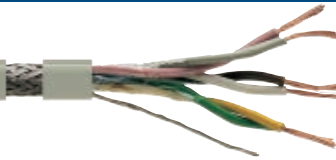
SAB TRAY CABLES

DC 105 C TP

Shielded semi-rigid twisted pair PVC data cable

Type PLTC, ITC, CMG, & CSA Approved

AWM I/II A/B 105°C 300V FT4 RoHS CE



Marking for DC 105 C TP DC3332203TP: SAB North America

P/N DC3332203TP 22AWG/3pr (UL) TYPE PLTC or ITC or CMG SHIELDED 105°C (DC 105 CTP) CSA TYPE CMG or AWM I/II A/B 105°C 300V FT4 RoHS CE

DC 105 C TP is a shielded, multi-pair signal and control cable designed for use with process control instrumentation, computers, data transmission, and office equipment. It has an overall foil tape with drain wire and tinned copper braid that is recommended whenever electrical interference distorts signal transmissions, or when EMI emissions need to be suppressed. DC 105 C TP has finer stranding for improved flexibility and is oil resistant.

Construction:

Conductor:	tinned copper strands
Insulation:	24 - 20 AWG semi-rigid PVC 18 - 16 AWG PVC/Nylon
Color code:	color code chart 3
Stranding:	paired and twisted together in layers with non-wicking fillers
Screen:	double screen, alu-foil, tinned copper braiding and tinned drain wire
Jacket material:	PVC
Jacket color:	gray

Technical data:

Nominal voltage:	300 V
Testing voltage:	2000 V
Min. bending radius fixed installation:	6 x O.D.
Temperature:	-25/+105°C
Approvals:	UL: CMG (UL PLTC & ITC 22 - 20 AWG) (UL PLTC-ER & ITC-ER 18- 16 AWG) CSA: CMG/FT4 AWM I/II A/B
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30 in full line catalog

Color Code chart 3

Pair no.	Color combination
1	black paired with red
2	black paired with white
3	black paired with green
4	black paired with blue
5	black paired with yellow
6	black paired with brown
7	black paired with orange
8	red paired with white
9	red paired with green
10	red paired with blue
11	red paired with yellow
12	red paired with brown
13	red paired with orange
14	green paired with white
15	green paired with blue
16	green paired with yellow
17	green paired with brown
18	green paired with orange
19	white paired with blue
20	white paired with yellow
21	white paired with brown
22	white paired with orange
23	blue paired with yellow
24	blue paired with brown
25	blue paired with orange

item no.	no. of pairs	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 24 AWG (7/32)				
DC3222401TP*	1	0.190	4.8	31
DC3222402TP	2	0.246	6.2	44
DC3222403TP	3	0.258	6.6	51
DC3222404TP	4	0.292	7.4	57
DC3222405TP	5	0.307	7.8	65
DC3222406TP	6	0.328	8.3	73
DC3222408TP	8	0.351	8.9	85
DC3222409TP	9	0.373	9.5	97
DC3222415TP	15	0.460	11.7	151
▶ 22 AWG (7/30)				
DC3332201TP*	1	0.203	5.2	32
DC3332202TP	2	0.266	6.8	50
DC3332203TP	3	0.289	7.3	63
DC3332204TP	4	0.323	8.2	71
DC3332205TP	5	0.333	8.5	80
DC3332206TP	6	0.358	9.1	90
DC3332208TP	8	0.383	9.7	107
DC3332209TP	9	0.429	10.9	128
DC3332211TP	11	0.460	11.7	154
DC3332215TP	15	0.505	12.8	188

*DC3222401TP & DC3332201TP:
black paired with white color code

item no.	no. of pairs	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 20 AWG (19/32)				
DC3332001TP	1	0.220	5.6	42
DC3332002TP	2	0.305	7.7	67
DC3332003TP	3	0.321	8.2	80
DC3332004TP	4	0.345	8.8	95
DC3332006TP	6	0.422	10.7	129
DC3332009TP	9	0.482	12.2	180
DC3332015TP	15	0.572	14.5	254
▶ 18 AWG (19/30)				
DC3331801TP	1	0.300	7.6	68
DC3331802TP	2	0.415	10.5	106
DC3331803TP	3	0.439	11.2	128
DC3331804TP	4	0.476	12.1	162
DC3331806TP	6	0.595	15.1	231
DC3331809TP	9	0.686	17.4	312
DC3331815TP	15	0.823	20.9	461
▶ 16 AWG (26/30)				
DC3331601TP	1	0.320	8.1	78
DC3331602TP	2	0.448	11.4	124
DC3331603TP	3	0.474	12.0	162
DC3331604TP	4	0.515	13.1	192

SAB TRAY CABLES

TR 600 S

UV and Oil resistant 90°C flexible tray cable

Type TC-ER, MTW, WTTC, & CSA Approved

-25°C SR FT4 OR AWM I/II A/B 90C 1000V FT4 RoHS CE



Marking for TR 600 S 93331641:

SAB NORTH AMERICA TR 600 S 93331641 16 AWG/41C (UL) TC-ER 90C DRY 75C WET 600V SUN RES DIR BUR OIL RES I/II OR WTTC 1000V OR MTW "FLEXING" OR DP-1 OR AWM 2586 105°C CSA CIC-TC PVC/N 90°C DRY 75°C WET 600V -25°C SR FT4 OR AWM I/II A/B 90C 1000V FT4 RoHS CE

TR 600 S is a multi-conductor, UL & CSA approved flexible tray cable. It is rated UL TC-ER, MTW, AWM and CSA CIC/TC for 600 V, 90°C and UL WTTC and CSA AWM 1000V. TR 600 S is UV, oil resistant (Oil Res I & II) and is submersible pump rated (3-7 cond.). This cable can be used without conduit (exposed runs). The reduced outer diameter permits easy handling and installation in confined areas. TR 600 S tray cable is designed for use in all electrical equipment in dry, damp and wet conditions. Recommended applications are machine tools, control systems, assembly lines, CNC machining centers, grinding machines, bottling equipment, data processing equipment and connections between control panels and machines. TR 600 S is permitted to be used in hazardous (classified) locations Class I, Division 2 per NEC Article 501.4 (B) and is UL Type TC in acc. to UL standard 1277 and NEC Article 336 (392, 501). Additional uses include wind turbine power and control cable intended to be installed in cable trays or raceways within a wind turbine generator and NFPA 79 Machine areas.

Construction:

Conductor:	bare copper strands class K (30 AWG multiple strands)
Insulation:	special formulated PVC/Nylon
Color code:	black conductors with consecutive white numbers; green-yellow earth wire from 3 conductors
Stranding:	in layers
Jacket material:	special oil resistant pressure extruded PVC
Jacket color:	black

Outstanding features:

- flexible stranding for easy installation
- oil resistant meeting UL Oil Res I and II
- NFPA 79 for Industrial Machinery
- UL TC-ER (exposed runs)
- CSA approved for TC
- Submersible pump (14 AWG ≥, 3 thru 7 cond.)
- WTTC: Wind turbine tray cable

Technical data:

Voltage:	UL-AWM / (UL) / CSA: 600 V (UL) WTTC: 1000 V	
Testing voltage:	2000 V	
Min. bending radius <i>fixed installation:</i>	4 x O.D.	
<i>free movement:</i>	6 x O.D.	
Temperature:	UL-AWM: up to +105°C -40°C	(UL) / CSA: up to +90°C
<i>static:</i>		
Burning characteristics:	(UL) FT4 and CSA FT1, FT2, FT4	
Oil resistance I + II:	yes	
Sunlight resistance:	yes	
Exposed Runs:	yes	
Cold bend test:	-40°C	
Direct Burial:	yes	
Machinery Area:	yes	
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	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG				
93331802*	2	0.286	7.3	45
93331803	3	0.300	7.6	55
93331804	4	0.324	8.2	67
93331805	5	0.349	8.9	79
93331807	7	0.376	9.6	100
93331809	9	0.432	11.0	125
93331812	12	0.480	12.2	157
93331818	18	0.596	15.1	244
93331825	25	0.686	17.4	319
93331850	50	0.940	23.9	622
▶ 16 AWG				
93331602*	2	0.306	7.8	52
93331603	3	0.321	8.2	70
93331604	4	0.348	8.8	81
93331605	5	0.376	9.6	96
93331607	7	0.412	10.5	126
93331608	8	0.440	11.2	137
93331609	9	0.473	12.0	152
93331612	12	0.527	13.4	196
93331616	16	0.613	15.6	273
93331618	18	0.646	16.4	300

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 16 AWG				
93331619	19	0.646	16.4	310
93331625	25	0.746	18.9	395
93331634	34	0.884	22.5	544
93331637	37	0.896	22.8	592
93331641	41	0.945	24.0	654
93331650	50	1.025	26.0	756
▶ 14 AWG				
93331402*	2	0.346	8.8	65
93331403	3	0.364	9.2	88
93331404	4	0.396	10.1	112
93331405	5	0.430	10.9	130
93331407	7	0.472	12.0	169
93331409	9	0.578	14.7	236
93331412	12	0.644	16.4	297
93331418	18	0.744	18.9	417
93331425	25	0.904	23.0	596
▶ 12 AWG				
93331202*	2	0.385	9.8	99
93331203	3	0.403	10.2	120
93331204	4	0.440	11.2	150
93331205	5	0.479	12.2	189
93331207	7	0.526	13.4	240

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 10 AWG				
93331003	3	0.487	12.4	179
93331004	4	0.568	14.4	248
93331005	5	0.618	15.7	298
93331007	7	0.674	17.1	403
▶ 8 AWG				
93330803	3	0.662	16.8	309
93330804	4	0.728	18.5	388
93330805	5	0.826	21.0	465
▶ 6 AWG				
93330603	3	0.765	19.4	443
93330604	4	0.879	22.3	580
93330605	5	0.954	24.2	717
▶ 4 AWG				
93330403	3	0.966	24.5	696
93330404	4	1.061	26.9	845
93330405	5	1.179	29.9	1035
▶ 2 AWG				
93330203	3	1.114	28.3	977
93330204	4	1.160	29.5	1215
93330205	5	1.363	34.6	1575

Other dimensions and colors are possible on request.

*2 conductor cables are rated UL TC only

SAB TRAY CABLES

TR 600 S CY

UV and oil resistant 90°C shielded flexible tray cable

Type TC-ER, MTW, WTTC, & CSA Approved

AWM I/II A/B 90C 1000V FT4 RoHS CE



Marking for TR 600 S CY 93341604:

SAB NORTH AMERICA TR 600 S CY 93341604 16 AWG/ 4C (UL) TC-ER 90C DRY 75C WET 600V SUN RES DIR BUR OIL RES I/II OR WTTC 1000V OR MTW "FLEXING" OR DP-1 OR AWM 2586 105°C CSA CIC-TC PVC/N 90°C DRY 75°C WET 600V -25°C SR FT4 OR AWM I/II A/B 90C 1000V FT4 RoHS CE

TR 600 S CY is a multi-conductor, UL & CSA approved shielded flexible tray cable. It is rated UL TC-ER, MTW, AWM and CSA CIC/TC for 600 V, 90°C and UL WTTC and CSA AWM 1000V. TR 600 S CY black is UV, oil resistant (Oil Res I & II) and is submersible pump rated (3-7 cond.). This cable can be used without conduit (exposed runs). The reduced outer diameter permits easy handling and installation in confined areas. TR 600 S CY shielded tray cable is designed for use in all electrical equipment in dry, damp and wet conditions. Recommended applications are machine tools, control systems, assembly lines, CNC machining centers, grinding machines, bottling equipment, data processing equipment and connections between control panels and machines. TR 600 S CY is permitted to be used in hazardous (classified) locations Class I, Division 2 per NEC Article 501.4 (B) and is UL Type TC in acc. to UL standard 1277 and NEC Article 336 (392, 501). Additional uses include wind turbine power and control cable intended to be installed in cable trays or raceways within a wind turbine generator and NFPA 79 Machine areas.

Construction:

Conductor:	bare copper strands class K (30 AWG multiple strands)
Insulation:	special formulated PVC/Nylon
Color code:	black conductors with consecutive white numbers; green-yellow earth wire from 3 conductors
Stranding:	in layers
Wrapping:	fleece tape
Screen:	tinned copper braiding (85% coverage)
Jacket material:	special oil resistant pressure extruded PVC
Jacket color:	black

Technical data:

Voltage:	UL-AWM / (UL) / CSA: 600 V (UL) WTTC: 1000 V	
Testing voltage:	2000 V	
Min. bending radius		
<i>fixed installation:</i>	6 x O.D.	
<i>free movement:</i>	8 x O.D.	
Temperature:	UL-AWM:	(UL) / CSA:
<i>static:</i>	up to +105°C	up to +90°C
	-40°C	
Burning characteristics:	(UL) FT4 and CSA FT1, FT2, FT4	
Oil resistance I + II:	yes	
Sunlight resistance:	yes	
Exposed Runs:	yes	
Cold bend test:	-40°C	
Direct Burial:	yes	
Machinery Area:	yes	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30 in full line catalog	

Outstanding features:

- flexible stranding for easy installation
- oil resistant meeting UL Oil Res I and II
- NFPA 79 for Industrial Machinery
- UL TC-ER (exposed runs)
- CSA approved for TC
- Submersible pump (14 AWG ≥, 3 thru 7 cond.)
- WTTC: Wind turbine tray cable

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG					▶ 14 AWG					▶ 10 AWG				
93341803	3	0.324	8.2	71	93341403	3	0.388	9.9	108	93341003	3	0.562	14.3	190
93341804	4	0.348	8.8	85	93341404	4	0.420	10.7	131	93341004	4	0.568	14.4	250
93341805	5	0.373	9.5	95	93341405	5	0.454	11.5	155	93341005	5	0.643	16.3	350
93341807	7	0.400	10.2	120	93341407	7	0.490	12.4	190	93341007	7	0.695	17.6	408
93341809	9	0.455	11.6	149	93341412	12	0.662	16.8	350	▶ 8 AWG				
93341812	12	0.504	12.8	185	93341418	18	0.764	19.4	482	93340804	4	0.759	19.3	447
93341818	18	0.617	15.7	270	93341425	25	0.924	23.5	701	▶ 6 AWG				
93341825	25	0.710	18.0	365	▶ 12 AWG					93340604	4	0.915	23.2	672
▶ 16 AWG					93341203	3	0.427	10.8	145	▶ 4 AWG				
93341603	3	0.345	8.8	83	93341204	4	0.464	11.8	178	93340404	4	1.097	27.9	993
93341604	4	0.372	9.4	100	93341205	5	0.506	12.9	210	▶ 2 AWG				
93341605	5	0.400	10.2	116						93340204	4	1.271	32.3	1455
93341607	7	0.430	10.9	145						Other dimensions and colors are possible on request.				
93341609	9	0.492	12.5	187										
93341612	12	0.579	14.7	245										
93341618	18	0.664	16.9	335										
93341625	25	0.770	19.6	445										

SAB TRAY CABLES

TR 600 S gray UV and Oil resistant 90°C flexible tray cable

Type TC-ER, MTW, WTTC, & CSA Approved

-25°C SR FT4 OR AWM I/II A/B 90C 1000V FT4 RoHS CE



Marking for TR 600 S 93351641:

SAB NORTH AMERICA TR 600 S 93351641 16 AWG/41C (UL) TC-ER 90C DRY 75C WET 600V SUN RES DIR BUR OIL RES I/II OR WTTC 1000V OR MTW "FLEXING" OR DP-1 OR AWM 2586 CSA CIC-TC PVC/N 90°C DRY 75°C WET 600V -25°C SR FT4 OR AWM I/II A/B 90C 1000V FT4 RoHS CE

TR 600 S gray is a multi-conductor, UL & CSA approved flexible tray cable. It is rated UL TC-ER, MTW, AWM and CSA CIC/TC for 600 V, 90°C and UL WTTC and CSA AWM 1000V. TR 600 S gray is UV, oil resistant (Oil Res I & II) and is submersible pump rated (3-7 cond.). This cable can be used without conduit (exposed runs). The reduced outer diameter permits easy handling and installation in confined areas. TR 600 S gray tray cable is designed for use in all electrical equipment in dry, damp and wet conditions. Recommended applications are machine tools, control systems, assembly lines, CNC machining centers, grinding machines, bottling equipment, data processing equipment and connections between control panels and machines. TR 600 S gray is permitted to be used in hazardous (classified) locations Class I, Division 2 per NEC Article 501.4 (B) and is UL Type TC in acc. to UL standard 1277 and NEC Article 336 (392, 501). Additional uses include wind turbine power and control cable intended to be installed in cable trays or raceways within a wind turbine generator and NFPA 79 Machine areas.

Construction:

Conductor:	bare copper strands class K (30 AWG multiple strands)
Insulation:	special formulated PVC/Nylon
Color code:	black conductors with consecutive white numbers; green-yellow earth wire from 3 conductors
Stranding:	in layers
Jacket material:	special oil resistant pressure extruded PVC
Jacket color:	gray

Outstanding features:

- flexible stranding for easy installation
- oil resistant meeting UL Oil Res I and II
- NFPA 79 for Industrial Machinery
- UL TC-ER (exposed runs)
- CSA approved for TC
- Submersible pump (14 AWG ≥, 3 thru 7 cond.)
- WTTC: Wind turbine tray cable

Technical data:

Voltage:	UL-AWM / (UL) / CSA: 600 V (UL) WTTC: 1000 V	
Testing voltage:	2000 V	
Min. bending radius <i>fixed installation:</i>	4 x O.D.	
<i>free movement:</i>	6 x O.D.	
Temperature:	UL-AWM: up to +105°C -40°C	(UL) / CSA: up to +90°C
<i>static:</i>		
Burning characteristics:	(UL) FT4 and CSA FT1, FT2, FT4	
Oil resistance I + II:	yes	
Sunlight resistance:	yes	
Exposed Runs:	yes	
Cold bend test:	-40°C	
Direct Burial:	yes	
Machinery Area:	yes	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 18 AWG					▶ 16 AWG					▶ 10 AWG				
93351802*	2	0.286	7.3	45	93351619	19	0.646	16.4	310	93351003	3	0.487	12.4	179
93351803	3	0.300	7.6	55	93351625	25	0.746	18.9	395	93351004	4	0.568	14.4	248
93351804	4	0.324	8.2	67	93351634	34	0.884	22.5	544	93351005	5	0.618	15.7	298
93351805	5	0.349	8.9	79	93351641	41	0.945	24.0	654	93351007	7	0.674	17.1	403
93351807	7	0.376	9.6	100	93351650	50	1.025	26.0	756	▶ 8 AWG				
93351809	9	0.432	11.0	125	▶ 14 AWG					93350803	3	0.662	16.8	309
93351812	12	0.480	12.2	157	93351402*	2	0.346	8.8	65	93350804	4	0.728	18.5	388
93351818	18	0.596	15.1	244	93351403	3	0.364	9.2	88	93350805	5	0.826	21.0	465
93351825	25	0.686	17.4	319	93351404	4	0.396	10.1	112	▶ 6 AWG				
93351850	50	0.940	23.9	622	93351405	5	0.430	10.9	130	93350603	3	0.765	19.4	443
▶ 16 AWG					93351407	7	0.472	12.0	169	93350604	4	0.879	22.3	580
93351602*	2	0.306	7.8	52	93351409	9	0.578	14.7	236	93350605	5	0.954	24.2	717
93351603	3	0.321	8.2	70	93351412	12	0.644	16.4	297	▶ 4 AWG				
93351604	4	0.348	8.8	81	93351418	18	0.744	18.9	417	93350403	3	0.966	24.5	696
93351605	5	0.376	9.6	96	93351425	25	0.904	23.0	596	93350404	4	1.061	26.9	845
93351607	7	0.412	10.5	126	▶ 12 AWG					93350405	5	1.179	29.9	1035
93351608	8	0.440	11.2	137	93351202*	2	0.385	9.8	99	▶ 2 AWG				
93351609	9	0.473	12.0	152	93351203	3	0.403	10.2	120	93350203	3	1.114	28.3	977
93351612	12	0.527	13.4	196	93351204	4	0.440	11.2	150	93350204	4	1.160	29.5	1215
93351616	16	0.613	15.6	273	93351205	5	0.479	12.2	189	93350205	5	1.363	34.6	1575
93351618	18	0.646	16.4	300	93351207	7	0.526	13.4	240					

Other dimensions and colors are possible on request.

*2 conductor cables are rated UL TC only

SAB TRAY CABLES

TR 600 S CY gray

UV and oil resistant 90°C shielded flexible tray cable

Type TC-ER, MTW, WTTC, & CSA Approved



SR FT4 OR AWM I/II A/B 90C 1000V FT4 RoHS CE



Marking for TR 600 S CY gray 93361604:

SAB NORTH AMERICA TR 600 S CY 93361604 16 AWG/ 4C (UL) TC-ER 90C DRY 75C WET 600V SUN RES DIR BUR OIL RES I/II OR WTTC 1000V OR MTW "FLEXING" OR DP-1 OR AWM 2586 105°C CSA CIC-TC PVC/N 90°C DRY 75°C WET 600V -25°C SR FT4 OR AWM I/II A/B 90C 1000V FT4 RoHS CE

TR 600 S CY gray is a multi-conductor, UL & CSA approved shielded flexible tray cable. It is rated UL TC-ER, MTW, AWM and CSA CIC/TC for 600 V, 90°C and UL WTTC and CSA AWM 1000V. TR 600 S CY gray is UV, oil resistant (Oil Res I & II) and is submersible pump rated (3-7 cond.). This cable can be used without conduit (exposed runs). The reduced outer diameter permits easy handling and installation in confined areas. TR 600 S CY gray shielded tray cable is designed for use in all electrical equipment in dry, damp and wet conditions. Recommended applications are machine tools, control systems, assembly lines, CNC machining centers, grinding machines, bottling equipment, data processing equipment and connections between control panels and machines. TR 600 S CY gray is permitted to be used in hazardous (classified) locations Class I, Division 2 per NEC Article 501.4 (B) and is UL Type TC in acc. to UL standard 1277 and NEC Article 336 (392, 501). Additional uses include wind turbine power and control cable intended to be installed in cable trays or raceways within a wind turbine generator and NFPA 79 Machine areas.

Construction:

Conductor:	bare copper strands class K (30 AWG multiple strands)
Insulation:	special formulated PVC/Nylon
Color code:	black conductors with consecutive white numbers; green-yellow earth wire from 3 conductors
Stranding:	in layers
Wrapping:	fleece tape
Screen:	tinned copper braiding (85% coverage)
Jacket material:	special oil resistant pressure extruded PVC
Jacket color:	gray

Technical data:

Voltage:	UL-AWM / (UL) / CSA: 600 V (UL) WTTC: 1000 V	
Testing voltage:	2000 V	
Min. bending radius		
<i>fixed installation:</i>	6 x O.D.	
<i>free movement:</i>	8 x O.D.	
Temperature:	UL-AWM:	(UL) / CSA:
<i>static:</i>	up to +105°C -40°C	up to +90°C
Burning characteristics:	(UL) FT4 and CSA FT1, FT2, FT4	
Oil resistance I + II:	yes	
Sunlight resistance:	yes	
Exposed Runs:	yes	
Cold bend test:	-40°C	
Direct Burial:	yes	
Machinery Area:	yes	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

Outstanding features:

- flexible stranding for easy installation
- oil resistant meeting UL Oil Res I and II
- NFPA 79 for Industrial Machinery
- UL TC-ER (exposed runs)
- CSA approved for TC
- Submersible pump (14 AWG ≥, 3 thru 7 cond.)
- WTTC: Wind turbine tray cable

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 18 AWG					▶ 14 AWG					▶ 10 AWG				
93361803	3	0.324	8.2	71	93361403	3	0.388	9.9	108	93361003	3	0.562	14.3	190
93361804	4	0.348	8.8	85	93361404	4	0.420	10.7	131	93361004	4	0.568	14.4	250
93361805	5	0.373	9.5	95	93361405	5	0.454	11.5	155	93361005	5	0.643	16.3	350
93361807	7	0.400	10.2	120	93361407	7	0.490	12.4	190	93361007	7	0.695	17.6	408
93361809	9	0.455	11.6	149	93361412	12	0.662	16.8	350	▶ 8 AWG				
93361812	12	0.504	12.8	185	93361418	18	0.764	19.4	482	93360804	4	0.759	19.3	447
93361818	18	0.617	15.7	270	93361425	25	0.924	23.5	701	▶ 6 AWG				
93361825	25	0.710	18.0	365	▶ 12 AWG					93360604	4	0.915	23.2	672
▶ 16 AWG					93361203	3	0.427	10.8	145	▶ 4 AWG				
93361603	3	0.345	8.8	83	93361204	4	0.464	11.8	178	93360404	4	1.097	27.9	993
93361604	4	0.372	9.4	100	93361205	5	0.506	12.9	210	▶ 2 AWG				
93361605	5	0.400	10.2	116										
93361607	7	0.430	10.9	145										
93361609	9	0.492	12.5	187										
93361612	12	0.579	14.7	245										
93361618	18	0.664	16.9	335										
93361625	25	0.770	19.6	445										

Other dimensions and colors are possible on request.

SAB TRAY CABLES

TR 600 Plus

Type TC-ER, MTW, WTTC, & CSA Approved

UV and Oil resistant 90°C reduced O.D. flexible tray cable

600V c(UL) Type CIC 90°C dry 600V FT1 FT2 FT4 CE



Marking for TR 600 Plus 95551804: SAB BRÖCKSKES · D-VIERSEN · TR 600 Plus 18AWG/4 95551804 (UL) Type TC-ER 90°C 600V, Oil Resistant I, Sunlight Resistant, Direct Burial, FT4 (UL) WTTC 90°C 1000V (UL) MTW 600 V AWM Style 21179 600 V c(UL) Type CIC 90°C dry 600V FT1, FT2, FT4 CSA AWM I/II A/B 90°C 1000V FT1, FT2 CE

TR 600 Plus is a multi-conductor, 600 V, 90°C, UL recognized and CSA approved, UV and oil resistant flexible tray cable. It is a reduced diameter and more flexible tray cable. It is also machine tool cable for use as specified in the National Electrical Code (NFPA 70) and in the National Fire Protection Association Electrical Standard for industrial machinery (NFPA 79). This cable can be used without conduit (exposed runs). The reduced outer diameter permits easy handling and installation in confined areas. Our specially designed PVC jacket passes the stringent requirements of the VDE test 0281 part 1 and HD 21.1 oil test providing the best oil resistance available for a PVC jacket. TR 600 Plus tray cable is designed for use in all electrical equipment in dry, damp and wet conditions. Recommended applications are machine tools, control systems, assembly lines, CNC machining centers, grinding machines, bottling equipment, data processing equipment and connections between control panels and machines. TR 600 Plus is permitted to be used in hazardous (classified) locations Class I, Division 2 per NEC Article 501.4 (B), UL Type TC is in acc. to UL standard 1277 and NEC Article 336 (392, 501). Wind turbine power and control cable is intended to be installed in cable trays or raceways within a wind turbine generator. MTW listed cables can be used in NFPA 79 Machine areas.

Construction:

Conductor:	bare copper finely stranded, class 5
Insulation:	special formulated PVC/Nylon
Color code:	black conductors with consecutive white numbers; green-yellow earth wire from 3 conductors
Stranding:	in layers
Jacket material:	special sunlight and oil resistant PVC
Jacket color:	black

Outstanding features:

- improved flexibility
- flexible cable for cable tray use even where sunlight resistance and open wiring is required
- NFPA 79 for Industrial Machinery
- WTTC: UL subject 2277
- TC: UL standard 1277
- (UL)(cUL) listed

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTC / CSA-AWM: 1000 V	
Testing voltage:	6000 V	
Min. bending radius		
<i>fixed installation:</i>	4 x O.D.	
<i>free movement:</i>	5 x O.D.	
Radiation resistance:	8 x 10 ⁷ cJ/kg	
Temperature:	UL-AWM: up to +105°C -25°C	(UL) / c(UL) / CSA-AWM: up to +90°C
<i>static:</i>		
Burning characteristics:	(UL) FT4 and c(UL) FT1, FT2, FT4 and CSA FT1, FT2	
Oil resistance I:	yes	
Sunlight resistance:	yes	
Exposed Runs:	yes	
Direct Burial:	yes	
Machinery Area:	yes	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 18 AWG				
95551803	3	0.280	7.1	50
95551804	4	0.303	7.7	60
95551805	5	0.327	8.3	71
95551807	7	0.354	9.0	88
95551809	9	0.433	11.0	117
95551812	12	0.457	11.6	137
95551816	16	0.504	12.8	175
95551818	18	0.563	14.3	210
95551819	19	0.563	14.3	216
95551825	25	0.661	16.8	275
95551827	27	0.665	16.9	292
95551837	37	0.740	18.8	380
95551850	50	0.906	23.0	533
▶ 16 AWG				
95551603	3	0.299	7.6	62
95551604	4	0.327	8.3	76
95551605	5	0.354	9.0	90
95551607	7	0.382	9.7	113
95551608	8	0.441	11.2	134
95551609	9	0.472	12.0	151
95551612	12	0.496	12.6	179
95551616	16	0.583	14.8	246
95551618	18	0.610	15.5	272

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 16 AWG				
95551619	19	0.610	15.5	283
95551625	25	0.724	18.4	359
95551627	27	0.724	18.4	382
95551637	37	0.846	21.5	535
95551641	41	0.906	23.0	595
95551650	50	0.988	25.1	699
95551661	61	1.043	26.5	827
▶ 14 AWG				
95551403	3	0.335	8.5	84
95551404	4	0.362	9.2	103
95551405	5	0.398	10.1	123
95551407	7	0.465	11.8	164
95551409	9	0.563	14.3	225
95551412	12	0.594	15.1	269
95551418	18	0.689	17.5	381
95551425	25	0.862	21.9	542
▶ 12 AWG				
95551203	3	0.386	9.8	117
95551204	4	0.421	10.7	145
95551205	5	0.461	11.7	175
95551207	7	0.575	14.6	251

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 10 AWG				
95551003	3	0.457	11.6	174
95551004	4	0.500	12.7	218
95551005	5	0.583	14.8	280
95551007	7	0.685	17.4	374
▶ 8 AWG				
95550804	4	0.681	17.3	374
95550805	5	0.748	19.0	451
▶ 6 AWG				
95550604	4	0.811	20.6	549
95550605	5	0.937	23.8	703
▶ 4 AWG				
95550404	4	1.028	26.1	884
95550405	5	1.138	28.9	1074
▶ 2 AWG				
95550204	4	1.189	30.2	1266
95550205	5	1.319	33.5	1533

SAB TRAY CABLES

TR 600 CY Plus

Shielded UV and Oil resistant 90°C reduced O.D. flexible tray cable

Type TC-ER, MTW, WTTC, & CSA Approved

Type CIC SHIELDED 90°C dry 600V FT1 FT2 FT4 CE



Marking for TR 600 CY Plus 95561804: SAB BRÖCKSKES · D-VIERSEN · TR 600 CY Plus 18AWG/4 95561804 TFFN (UL) Type TC-ER 90°C 600V, Oil Resistant I, Sunlight Resistant, Direct Burial, FT4 (UL) WTTC 90°C 1000V (UL) MTW 600 V AWM Style 21179 600 V c(UL) Type CIC 90°C dry 600V FT1, FT2, FT4 CSA Type CIC Shielded 90°C dry 600V FT1, FT2, FT4 CE

TR 600 CY Plus is a shielded multi-conductor, 600 V, 90°C, UL recognized and CSA approved, UV and oil resistant flexible tray cable. It is a reduced diameter and more flexible tray cable. It is also machine tool cable for use as specified in the National Electrical Code (NFPA 70) and in the National Fire Protection Association Electrical Standard for industrial machinery (NFPA 79). This cable can be used without conduit (exposed runs). The reduced outer diameter permits easy handling and installation in confined areas. Our specially designed PVC jacket passes the stringent requirements of the VDE test 0281 part 1 and HD 21.1 oil test providing the best oil resistance available for a PVC jacket. TR 600 CY Plus tray cable is designed for use in all electrical equipment in dry, damp and wet conditions. Recommended applications are machine tools, control systems, assembly lines, CNC machining centers, grinding machines, bottling equipment, data processing equipment and connections between control panels and machines. TR 600 CY Plus is permitted to be used in hazardous (classified) locations Class I, Division 2 per NEC Article 501.4 (B), UL Type TC is in acc. to UL standard 1277 and NEC Article 336 (392, 501). Wind turbine power and control cable is intended to be installed in cable trays or raceways within a wind turbine generator. MTW listed cables can be used in NFPA 79 Machine areas.

Construction:

Conductor:	bare copper finely stranded, class 5
Insulation:	special formulated PVC/Nylon
Color code:	black conductors with consecutive white numbers; green-yellow earth wire from 3 conductors
Stranding:	in layers
Screen:	double screen, alu-foil, tinned copper braiding
Jacket material:	special sunlight and oil resistant PVC
Jacket color:	black

Outstanding features:

- improved flexibility
- flexible cable for cable tray use even where sunlight resistance and open wiring is required
- NFPA 79 for Industrial Machinery
- WTTC: UL subject 2277
- TC: UL standard 1277
- (UL)/(cUL) listed

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTC / CSA-AWM: 1000 V
Testing voltage:	6000 V
Min. bending radius	
fixed installation:	5 x O.D.
free movement:	10 x O.D.
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature:	UL-AWM: up to +105°C (UL) / c(UL) / CSA-AWM: up to +90°C
static:	-25°C
Burning characteristics:	(UL) FT4 and c(UL) FT1, FT2, FT4 and CSA FT1, FT2
Oil resistance I:	yes
Sunlight resistance:	yes
Exposed Runs:	yes
Direct Burial:	yes
Machinery Area:	yes
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG				
95561803	3	0.299	7.6	58
95561804	4	0.323	8.2	67
95561805	5	0.346	8.8	79
95561807	7	0.374	9.5	97
95561809	9	0.461	11.7	138
95561812	12	0.484	12.3	159
95561816	16	0.563	14.3	214
95561818	18	0.598	15.2	247
95561819	19	0.598	15.2	252
95561825	25	0.701	17.8	323
95561827	27	0.701	17.8	339
95561837	37	0.776	19.7	431
95561850	50	0.941	23.9	603
▶ 16 AWG				
95561603	3	0.319	8.1	68
95561604	4	0.346	8.8	83
95561605	5	0.374	9.5	98
95561607	7	0.402	10.2	122
95561608	8	0.469	11.9	155
95561609	9	0.500	12.7	172
95561612	12	0.555	14.1	217
95561616	16	0.618	15.7	286

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 16 AWG				
95561618	18	0.646	16.4	312
95561619	19	0.646	16.4	320
95561625	25	0.760	19.3	411
95561627	27	0.760	19.3	433
95561637	37	0.882	22.4	592
95561641	41	0.941	23.9	661
95561650	50	1.024	26.0	769
95561661	61	1.079	27.4	898
▶ 14 AWG				
95561403	3	0.354	9.0	88
95561404	4	0.382	9.7	110
95561405	5	0.425	10.8	139
95561407	7	0.492	12.5	182
95561409	9	0.598	15.2	258
95561412	12	0.630	16.0	307
95561418	18	0.724	18.4	424
95561425	25	0.898	22.8	599
▶ 12 AWG				
95561203	3	0.406	10.3	120
95561204	4	0.449	11.4	159
95561205	5	0.488	12.4	189
95561207	7	0.610	15.5	286

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 10 AWG				
95561003	3	0.484	12.3	181
95561004	4	0.559	14.2	244
95561005	5	0.618	15.7	308
95561007	7	0.720	18.3	409
▶ 8 AWG				
95560804	4	0.717	18.2	393
95560805	5	0.783	19.9	474
▶ 6 AWG				
95560604	4	0.886	22.5	595
95560605	5	0.972	24.7	726
▶ 4 AWG				
95560404	4	1.063	27.0	878
95560405	5	1.173	29.8	1076
▶ 2 AWG				
95560204	4	1.224	31.1	1235
95560205	5	1.354	34.4	1509

SAB TRAY CABLES

TR 850 S

Type TC-ER, STOOW, & CSA Approved

UV and Oil resistant 90°C flexible tray cable- flexible cord

600V c(UL) Type CIC 90°C dry 600V FT1 FT2 FT4 CE



Marking for TR 850 S 8501205:

SAB NORTH AMERICA 12AWG/5C (UL) TYPE TC-ER 90C DRY 75C WET 600V SUN RES DIR BUR OIL RES I/II OR

TYPE STOOW 105C 600V OR WTTC 1000V OR C(UL) CIC-TC PVC 600V FT4 --- CSA STOOW 105C 600V FT1 OR AWM I/II A/B 105C 1000V FT4 CE

TR 850 S is a multi-conductor, 600V, 90°C, UL TC-ER, UV and oil resistant flexible tray cable. It is also UL and CSA Type STOOW flexible cord for use as specified in the National Electrical Code (NFPA 70) and in the National Fire Protection Association Electrical Standard for industrial machinery (NFPA 79). Flexible cords shall be used for connection of portable lamps, portable and mobile signs or appliances, wiring of cranes and hoists. Our specially designed PVC jacket passes the stringent requirements of UL Oil Res I & II oil tests providing the best oil resistance available for a PVC jacket. TR 850 S tray cables are designed for use in all electrical equipment in dry damp and wet conditions. Recommended applications are machine tools, control systems, assembly lines, CNC machining centers, grinding machines, bottling equipment, data processing equipment and connections between control panels and machines. TR 850 S is permitted in hazardous (classified) locations Class I, Division 2 per NEC Article 501.4 (B), UL Type TC is in acc. to UL standard 1277 and NEC Article 336 (392, 501). The STOOW listed cable could be used in NFPA 79 Machinery Area.

Construction:

Conductor:	bare copper strands class K
Insulation:	special formulated PVC
Color code:	3c-black, white, green/yellow; 4c-black,white, red, green/yellow; 5c-black, white, red, brown, green/yellow; 7c-black numbered plus green/yellow
ground	
Stranding:	in layers
Jacket material:	special sunlight and oil resistant PVC
Jacket color:	black

Technical data:

Voltage:	(UL) TC / STOOW / CSA STOOW: 600 V (UL) WTTC / CSA AWM: 1000 V
Testing voltage:	2000 V
Min. bending radius	
<i>fixed installation:</i>	4 x O.D.
<i>free movement:</i>	6 x O.D.
Temperature:	UL / CSA STOOW: up to +105°C (UL) / c(UL): up to +90°C <i>static:</i> -40°C
Burning characteristics:	(UL) FT4 and c(UL) FT1, FT2, FT4
Oil resistance I & II:	yes
Sunlight resistance:	yes
Exposed Runs:	yes
Direct Burial:	yes
Machinery Area:	yes
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Outstanding features:

- flexible cable for cable tray use even where sunlight resistance is required
- UL STOOW / CSA STOOW
- Class I Div I for flexible use only

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG					▶ 10 AWG				
8501803	3	0.363	9.2	77	8501003	3	0.696	17.7	307
8501804	4	0.394	10.0	95	8501004	4	0.742	18.8	378
8501805	5	0.462	11.7	133	8501005	5	0.819	20.8	445
8501807	7	0.495	12.6	157	8501007	7	0.850	21.6	544
▶ 16 AWG					▶ 8 AWG				
8501603	3	0.392	10.0	96	8500804	4	0.990	25.1	623
8501604	4	0.422	10.7	111	▶ 6 AWG				
8501605	5	0.497	12.6	159	8500604	4	1.120	28.4	828
8501607	7	0.535	13.6	192	▶ 4 AWG				
▶ 14 AWG					8500404	4	1.277	32.4	1174
8501403	3	0.541	13.7	170	▶ 2 AWG				
8501404	4	0.584	14.8	208	8500204	4	1.442	36.6	1578
8501405	5	0.656	16.7	264	Other dimensions and colors are possible on request.				
8501407	7	0.708	18.0	324					
▶ 12 AWG									
8501203	3	0.614	15.6	232					
8501204	4	0.640	16.3	329					
8501205	5	0.716	18.2	329					
8501207	7	0.773	19.6	418					

SAB TRAY CABLES

TRAY HD TPE Heavy duty tray cable

Type TC-ER, WTTC, & CSA Approved

600V FT4 CSA AWM I/II A/B 90C 600V FT4 RoHS CE



Marking for TRAY HD TPE 94441842:

SAB NORTH AMERICA TRAY HD TPE 18 AWG 42c P/N 94441842 (UL) TC-ER 90C DRY 75C WET 600V OIL RES I/II SUN RES DIR BUR OR WTTC 1000V OR AWM 21270 105C 600V OR c(UL) CIC-TC PVC/N 600V FT4 CSA AWM I/II A/B 90C 600V FT4 RoHS CE

TRAY HD TPE is a severe duty motor supply cable with blue conductor or red conductors for use in applications that require cables to be identified for AC or DC circuits. The TPE jacket provides excellent flexibility, chemical resistance and extreme oil resistance. This cable can be used without conduit (exposed runs). TRAY HD TPE is permitted to be used in hazardous (classified) locations Class 1, Division 2 per NEC Article 501.4 (B), UL Type TC is in acc. to UL standard 1277 and NEC Article 336. Wind turbine power and control cable is intended to be installed in cable trays or raceways within a wind turbine generator.

Construction:

Conductor:	bare copper strands class K
Insulation:	special formulated PVC/Nylon
Color code:	blue with numerical print* one with white-blue conductor and one green/yellow earth wire** *Alpha-Numeric Alternate and Inverted, ie: 1-ONE
Stranding:	in layers
Jacket material:	TPE
Jacket color:	gray (also available in black)

Outstanding features:

- heavy duty tray cable and control and instrumentation cable
- UL-AWM recognized for 105°C
- extremely oil resistant
- WTTC: UL subject 2277
- TC: UL standard 1277
- CSA listed
- NFPA 79 for Industrial Machinery
- c(UL) CIC-TC FT4

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTC: 1000 V	
Testing voltage:	2000 V	
Min. bending radius:	7.5 x O.D.	
Temperature:	UL-AWM: up to +105°C	(UL) / c(UL) / CSA-AWM: up to +90°C
<i>static:</i>	-40°C	
Burning characteristics:	(UL) FT4 and c(UL) FT1, FT2, FT4	
Oil resistance I & II:	yes	
Exposed Runs:	yes	
Cold bend test:	-40°C	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	
Alt. color code:	** Add B at the end of Part No. for black conductors with numbers; and green-yellow earth wire ** Add R at the end of Part No. for red conductors with numbers; one white-red conductor and green-yellow earth wire	



Available with black jacket
as well as red conductors.

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG				
94441803	3	0.295	7.5	55
94441805	5	0.343	8.7	79
94441807	7	0.370	9.4	100
94441811	11	0.465	11.8	149
94441812	12	0.476	12.1	157
94441819	19	0.583	14.8	247
94441825	25	0.677	17.2	319
94441833	33	0.736	18.7	391
94441842	42	0.815	20.7	498
94441849	49	0.906	23.0	607
94441865	65	1.008	25.6	675
▶ 16 AWG				
94441603	3	0.323	8.2	70
94441605	5	0.409	10.4	96
94441607	7	0.539	13.7	166
94441611	11	0.555	14.1	191
94441612	12	0.634	16.1	196
94441619	19	0.642	16.3	307
94441625	25	0.736	18.7	395
94441633	33	0.815	20.7	475
94441642	42	0.949	24.1	612
94441649	49	1.004	25.5	748
94441665	65	1.122	28.5	998

Other dimensions and colors are possible on request.

*For red conductors add R at end of P/N. i.e. 94441803R

SAB TRAY CABLES

TR 600 HD Heavy duty tray cable

Type TC-ER, WTTC, & CSA Approved



Marking for TR 600 HD 32301604:

SAB NORTH AMERICA TR 600 HD 16 AWG 4c P/N 32301604 (UL) TC-ER 90C DRY 75C WET 600V OIL RES I/II SUN RES DIR BUR OR WTTC 1000V OR AWM 21270 105C 600V OR c (UL) CIC-TC PVC/N 600V FT4 CSA AWM I/II A/B 90C 600V FT4 RoHS CE

TR 600 HD is a severe duty motor supply cable for use in applications that require tray cable ratings, flexibility, chemical resistance and extreme oil resistance. This cable can be used without conduit (exposed runs). TR 600 HD is permitted to be used in hazardous (classified) locations Class I, Division 2 per NEC Article 501.4 (B), UL Type TC is in acc. to UL standard 1277 and NEC Article 336. Wind turbine power and control cable is intended to be installed in cable trays or raceways within a wind turbine generator.

Construction:

Conductor:	bare copper strands class K
Insulation:	special formulated PVC/Nylon
Color code:	black with numerical print* and one green/yellow earth wire** *Alpha-Numeric Alternate and Inverted, ie: 1-ONE
Stranding:	in layers
Jacket material:	TPE
Jacket color:	orange (also available in gray or black)

Outstanding features:

- ▶ heavy duty tray cable and control and instrumentation cable
- ▶ UL-AWM recognized for 105°C
- ▶ extremely oil resistant
- ▶ WTTC: UL subject 2277
- ▶ TC: UL standard 1277
- ▶ CSA listed
- ▶ NFPA 79 for Industrial Machinery
- ▶ c(UL) CIC-TC FT4

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTC: 1000 V	
Testing voltage:	2000 V	
Min. bending radius:	7.5 x O.D.	
Temperature:	UL-AWM: up to +105°C -40°C	(UL) / c(UL)/ CSA-AWM: up to +90°C
Burning characteristics:	(UL) FT4 and c(UL) FT1, FT2, FT4	
Oil resistance I & II:	yes	
Exposed Runs:	yes	
Cold bend test:	-40°C	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	
Alt. color code:	** Add B at the end of Part No. for blue conductors with numbers; one white-blue conductor and green-yellow earth wire ** Add R at the end of Part No. for red conductors with numbers; one white-red conductor and green-yellow earth wire	



Available with gray or black jacket as well as blue and red conductors.

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG					▶ 14 AWG					▶ 8 AWG				
32301803	3	0.300	7.6	55	32301403	3	0.364	9.2	88	32300804	4	0.756	19.2	385
32301804	4	0.324	8.2	67	32301404	4	0.396	10.1	92	32300805	5	0.826	21.0	465
32301805	5	0.349	8.9	79	32301407	7	0.472	12.0	169	▶ 6 AWG				
32301807	7	0.376	9.6	100	32301412	12	0.644	16.4	297	32300603	3	0.767	19.5	426
32301812	12	0.480	12.2	157	▶ 12 AWG					32300604	4	0.879	22.3	580
32301818	18	0.596	15.1	244	32301203	3	0.403	10.2	120	▶ 4 AWG				
32301825	25	0.686	17.4	319	32301204	4	0.440	11.2	150	32300404	4	1.061	26.9	845
▶ 16 AWG					32301205	5	0.479	12.2	182	32300405	5	1.179	29.9	1035
32301603	3	0.321	8.2	70	32301207	7	0.526	13.4	240	▶ 2 AWG				
32301604	4	0.348	8.8	81	32301212	12	0.719	18.3	420	32300204	4	1.235	31.4	1278
32301605	5	0.376	9.6	96	▶ 10 AWG					32300205	5	1.363	34.6	1575
32301607	7	0.412	10.5	166	32301003	3	0.506	12.9	179	▶ 1 AWG				
32301612	12	0.527	13.4	196	32301004	4	0.590	15.0	248	32300104	4	1.403	35.6	1605
32301618	18	0.646	16.4	300	32301005	5	0.642	16.3	298	Other dimensions and colors are possible on request.				
32301625	25	0.746	18.9	395										

*For blue conductors add B at end of P/N, for red add an R. i.e. 32401404B

SAB TRAY CABLES

TR 600 C HD

Shielded heavy duty tray cable

Type TC-ER, WTTC, & CSA Approved

FT4 CSA AWM I/II AB 90C 600V FT4 RoHS CE



Marking for TR 600 C HD 32401604:

SAB North America TR 600 C HD 16 AWG/4c P/N 32401604 (UL) TC-ER 90°C DRY, 75°C WET, 600V OIL RES I/II SUN RES DIR BUR OR WTTC 1000V OR AWM 21270 105C 600V OR c(UL) CIC-TC PVC/N 600V FT4 CSA AWM I/II AB 90C 600V FT4 RoHS CE

TR 600 C HD is a shielded severe duty motor supply cable for use in applications that require tray cable ratings, flexibility, chemical resistance and extreme oil resistance. This cable can be used without conduit (exposed runs). TR 600 C HD is permitted to be used in hazardous (classified) locations Class I, Division 2 per NEC Article 501.4 (B), UL Type TC is in acc. to UL standard 1277 and NEC Article 336. Wind turbine power and control cable is intended to be installed in cable trays or raceways within a wind turbine generator.

Construction:

Conductor:	bare copper strands class K
Insulation:	special formulated PVC/Nylon
Color code:	black with numerical print* and one green/yellow earth wire** *Alpha-Numeric Alternate and Inverted, ie: 1-ONE
Stranding:	in layers
Inner jacket:	PVC, color black
Screen:	tinned copper braiding, 85% coverage
Jacket material:	TPE
Jacket color:	orange (also available in gray or black)

Outstanding features:

- heavy duty tray cable and control and instrumentation cable
- UL-AWM recognized for 105°C
- extremely oil resistant
- WTTC: UL subject 2277
- TC: UL standard 1277
- CSA listed
- NFPA 79 for Industrial Machinery
- c(UL) CIC-TC FT4

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTC: 1000 V	
Testing voltage:	2000 V	
Min. bending radius:	7.5 x O.D.	
Temperature:	UL-AWM: up to +105°C static: -40°C	UL) / c(UL) / CSA-AWM: up to +90°C
Burning characteristics:	(UL) FT4 and c(UL) FT1, FT2, FT4	
Oil resistance I & II:	yes	
Exposed Runs:	yes	
Cold bend test:	-40°C	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	
Alt. color code:	** Add B at the end of Part No. for black conductors with numbers; and green-yellow earth wire ** Add R at the end of Part No. for red conductors with numbers; one white-red conductor and green-yellow earth wire	



Available with gray or black jacket as well as blue and red conductors.

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft					
▶ 18 AWG					▶ 14 AWG					▶ 8 AWG									
32401803	3	0.385	9.7	99	32401403	3	0.450	11.4	138	32400804	4	0.930	23.6	579					
32401804	4	0.408	10.4	113	32401404	4	0.480	12.2	149	▶ 6 AWG									
32401805	5	0.433	10.9	126	32401407	7	0.584	14.8	257	32400604	4	1.023	26.0	793					
32401807	7	0.460	11.6	151	▶ 12 AWG					▶ 4 AWG									
32401812	12	0.599	15.1	250	32401204	4	0.523	13.3	217	32400404	4	1.204	30.6	1157					
32401818	18	0.700	17.6	352	32401205	5	0.597	15.2	272	▶ 2 AWG									
32401825	25	0.783	19.7	449	▶ 10 AWG					32400204	4	1.382	35.1	1579					
▶ 16 AWG					32401004	4	0.698	17.7	366	▶ 1 AWG									
32401603	3	0.406	10.3	112											32400104	4	1.548	39.3	2815
32401604	4	0.413	10.5	107											Other dimensions and colors are possible on request.				
32401605	5	0.460	11.7	154															
32401607	7	0.490	12.4	182															
32401612	12	0.640	16.3	301															
32401618	18	0.750	19.1	425															
32401625	25	0.882	22.4	569															

*For blue conductors add B at end of P/N, for red add an R. i.e. 32301404B

TR 600 Auto HD Continuous flex heavy duty tray cable

Type TC-ER, WTTC, & CSA Approved



600V FT4 CSA AWM I/II A/B 90C 600V FT4 RoHS CE

Marking for TR 600 Auto HD 32321604:

SAB NORTH AMERICA TR 600 Auto HD 16AWG/4c P/N 32321604 (UL) TC-ER 90C DRY 75 C WET 600V OIL RES I/II SUN RES DIR BUR OR
WTTC 1000V OR AWM 21270 105C 600V OR c(UL) CIC-TC PVC/N 600V FT4 CSA AWM I/II A/B 90C 600V FT4 RoHS CE

TR 600 Auto HD is a severe duty continuous flex motor supply cable for use in applications that require tray cable ratings, flexibility, chemical resistance and extreme oil resistance. This cable can be used without conduit (exposed runs). TR 600 Auto HD is permitted to be used in hazardous (classified) locations Class I, Division 2 per NEC Article 501.4 (B), UL Type TC is in acc. to UL standard 1277 and NEC Article 336. Wind turbine power and control cable is intended to be installed in cable trays or raceways within a wind turbine generator.

Construction:

Conductor:	bare copper strands class M
Insulation:	special formulated PVC/Nylon
Color code:	black with numerical print* and one green/yellow earth wire** *Alpha-Numeric Alternate and Inverted, ie: 1-ONE
Stranding:	in layers with fleece tape separator
Jacket material:	TPE
Jacket color:	black

Outstanding features:

- heavy duty tray cable and control and instrumentation cable
- UL-AWM 21270 recognized for 105°C
- extremely oil resistant
- WTTC: UL subject 2277
- TC: UL standard 1277
- CSA listed
- NFPA 79 for Industrial Machinery
- c(UL) CIC-TC FT4
- continuous flex applications

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTC: 1000 V	
Testing voltage:	2000 V	
Min. bending radius		
<i>fixed installation:</i>	4 x O.D.	
<i>free movement:</i>	6 x O.D.	
<i>continuous flexing:</i>	10 x O.D.	
Temperature:	UL-AWM: up to +105°C -40°C	(UL) / c(UL)/ CSA-AWM: up to +90°C
<i>static:</i>		
Cold Bend Test:	-40°C	
Burning characteristics:	(UL) Vertical Tray Flame and c(UL) FT1, FT2, FT4	
Oil resistance I & II:	yes	
Exposed Runs:	yes	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30 in full line catalog	
Alt. color code:	** Add B at the end of Part No. for Blue Conductors blue conductors with numbers; one white-blue conductor and green-yellow earth wire ** Add R at the end of Part No. for Red Conductors red conductors with numbers; one white-red conductor and green-yellow earth wire	



Available with blue or red conductors

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
➤ 18 AWG					➤ 14 AWG					➤ 8 AWG				
32321803	3	0.302	7.7	48	32321403	3	0.361	9.2	82	32320804	4	0.756	19.2	385
32321804	4	0.325	8.3	58	32321404	4	0.391	9.9	102	32320805	5	0.826	21.0	465
32321805	5	0.350	8.9	75	32321405	5	0.423	10.7	125	➤ 6 AWG				
32321807	7	0.405	10.3	94	32321407	7	0.495	12.6	169	32320603	3	0.767	19.5	426
32321812	12	0.480	12.2	134	32321412	12	0.625	15.9	282	32320604	4	0.879	22.3	580
32321818	18	0.589	15.0	214	➤ 12 AWG					➤ 4 AWG				
32321825	25	0.714	18.1	307	32321203	3	0.420	10.7	115	32320404	4	1.061	26.9	845
➤ 16 AWG					32321204	4	0.458	11.6	145	32320405	5	1.179	29.9	1035
32321603	3	0.336	8.5	63	32321207	7	0.621	15.8	264	➤ 2 AWG				
32321604	4	0.364	9.2	77	32321212	12	0.742	18.8	398	32320204	4	1.235	31.4	1278
32321605	5	0.394	10.0	98	➤ 10 AWG					32320205	5	1.363	34.6	1575
32321607	7	0.458	11.6	125	32321003	3	0.506	12.9	179	Other dimensions and colors are possible on request.				
32321612	12	0.580	14.7	204	32321004	4	0.590	15.0	248					
32321618	18	0.669	17.0	300	32321005	5	0.642	16.3	298					
32321625	25	0.817	20.8	423										

*For blue conductors add B at end of P/N, for red add an R. i.e. 32401404B

SAB TRAY CABLES

TR 600 Auto C HD

Shielded continuous flex heavy duty tray cable

Type TC-ER, WTTC, & CSA Approved

CSA AWM I/II A/B 90C 600V FT4 RoHS CE



Marking for TR 600 Auto C HD 32421604:

SAB NORTH AMERICA TR 600 Auto HD 16AWG/4c P/N 32421604 (UL) TC-ER 90C DRY 75 C WET 600V OIL RES I/II SUN RES DIR BUR OR WTTC 1000V OR AWM 21270 105C 600V OR c(UL) CIC-TC PVC/N 600V FT4 CSA AWM I/II A/B 90C 600V FT4 RoHS CE

TR 600 Auto C HD is a shielded severe duty continuous flex motor supply cable for use in applications that require tray cable ratings, flexibility, chemical resistance and extreme oil resistance. This cable can be used without conduit (exposed runs). TR 600 C HD is permitted to be used in hazardous (classified) locations Class I, Division 2 per NEC Article 501.4 (B). UL Type TC is in acc. to UL standard 1277 and NEC Article 336. Wind turbine power and control cable is intended to be installed in cable trays or raceways within a wind turbine generator.

Construction:

Conductor:	bare copper strands class M
Insulation:	special formulated PVC/Nylon
Color code:	black with numerical print* and one green/yellow earth wire** *Alpha-Numeric Alternate and Inverted, ie: 1-ONE
Stranding:	in layers
Wrapping:	fleece binder
Screen:	tinned copper braiding (85% coverage)
Separator:	tissue tape
Jacket material:	TPE
Jacket color:	black

Outstanding features:

- heavy duty tray cable and control and instrumentation cable
- UL-AWM 21270 recognized for 105°C
- extremely oil resistant
- WTTC: UL subject 2277
- TC: UL standard 1277
- CSA listed
- NFPA 79 for Industrial Machinery
- c(UL) CIC-TC FT4
- continuous flex applications

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTC: 1000 V	
Testing voltage:	2000 V	
Min. bending radius		
<i>fixed installation:</i>	5 x O.D.	
<i>free movement:</i>	10 x O.D.	
<i>continuous flexing:</i>	12 x O.D.	
Temperature:	UL-AWM: up to +105°C -40°C	(UL) / c(UL) / CSA-AWM: up to +90°C
<i>static:</i>		
Cold Bend Test:	-40°C	
Burning characteristics:	(UL) Vertical Tray Flame and c(UL) FT1, FT2, FT4	
Oil resistance I & II:	yes	
Exposed Runs:	yes	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30 in full line catalog	
Alt. color code:	** Add B at the end of Part No. for Blue Conductors blue conductors with numbers; one white-blue conductor and green-yellow earth wire ** Add R at the end of Part No. for Red Conductors red conductors with numbers; one white-red conductor and green-yellow earth wire	



Available with blue or red conductors

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG					▶ 14 AWG					▶ 8 AWG				
32421803	3	0.322	8.2	45	32421403	3	0.381	9.7	108	32420804	4	0.785	19.9	450
32421804	4	0.345	8.8	85	32421404	4	0.411	10.4	123	▶ 6 AWG				
32421807	7	0.425	10.8	120	32421405	5	0.443	11.3	147	32420604	4	0.914	23.2	630
32421812	12	0.500	12.7	185	32421407	7	0.515	13.1	185	▶ 4 AWG				
32421818	18	0.609	15.5	260	▶ 12 AWG					32420404	4	1.096	27.8	945
32421825	25	0.714	18.1	307	32421204	4	0.478	12.1	178	▶ 2 AWG				
▶ 16 AWG					32421205	5	0.519	13.2	210	32420204	4	1.264	32.1	1450
32421603	3	0.356	9.0	78	▶ 10 AWG					Other dimensions and colors are possible on request.				
32421604	4	0.384	9.8	100	32421004	4	0.613	15.6	280					
32421605	5	0.414	10.5	127	32421005	5	0.673	17.1	350					
32421607	7	0.478	12.1	145										
32421612	12	0.600	15.2	245										
32421618	18	0.669	17.0	337										
32421625	25	0.883	22.4	541										

SAB CABLES

SPECIAL/HYBRID CABLES



WE DEVELOP AND PRODUCE **CABLES AND WIRES**
AS WELL AS **SPECIAL SOLUTIONS**
PARTICULARLY ACCORDING TO YOUR REQUIREMENTS AND APPLICATIONS.

Whatever the need may be, look to SAB North America for Special Cables that can, for example, help minimize maintenance costs and increase productivity, reduce downtime, and solve specific problems.

Here is a small sample of some of the challenges that Special Cables from SAB North America can help address:

- **Hybrid Designs for multiple functions-** In situations with space and budget constraints, a hybrid cable accommodates multiple functions like communications and control, fiber optics, power, pneumatics, and hydraulics.
- **Harsh Environments-** Because cables must endure inhospitable environments, standard cables can be customized with the right materials to resist threats such as temperature extremes from -50°C to 200°C, tears and abrasions, oils, solvents, and flames.
- **Difficult applications-** In many cases, cables must function reliably despite distinctive operating conditions such as high-speed data handling, unique motion and mechanical stresses in robotics and automated machines, reeling and pulley structures in hoists and transport systems, resistance to EMI and RFI in motors and drives as well as use with disinfectants and cleaning substances in medical and other sanitary environments.
- **Industries-** SAB North America customizes Special Cables for a diversity of industries such as industrial automation, renewable energy, transportation, medical, and entertainment and amusements.



Special cables and hybrid cables can help solve design problems or perform in challenging operating environments where standard cables may fall short. Customers can select from a large catalog of materials and jacket combinations, and SAB North America can assist customers in modifying or designing a completely new cable. Order minimums are as low as 1,500 feet, and we can test your unique product in our lab. No matter your application's requirements, SAB North America Special Cables expand the possibilities of standard cables and address your design challenges.

SAB CABLES

DESIGNED TO SPECIFICATION

Order minimums are as low as 1,500 feet, and we can test your unique product in our lab. No matter your application's requirements, SAB North America Special Cables expand the possibilities of standard cables and address your design challenges.

Conductor Materials

- Bare copper
- Tinned copper
- Silver plated copper
- Nickel plated copper
- Nickel
- Nickel pure
- Compensating cable alloys

Conductor Sizes

- 0.14 mm² - 300 mm²
(26 AWG to 500 MCM)
- variety of stranding styles

Insulation and Jacketing Materials

- PVC (many varieties)
- Polyethylene
- Polypropylene
- TPE
- Fiberglass
- Besilen®/Silicone
- Pi foil
- FEP, ETFE, PFA, PTFE
- SABIX® zero halogen
- Polyurethane

Conductor Count Ranges

- unshielded - up to 125 conductors
- shielded - up to 100 conductors

Temperature Ranges (based on material)

- Thermoplastic Elastomers -50°C up to +145°C
- Besilen®/Silicone -40°C up to +220°C
- FEP, ETFE, PFA, PTFE -90°C up to +260°C
- Halogen-free -50°C up to +220°C
- Fiberglass up to +600°C

Shielding and Braiding Materials

- Bare copper
- Tinned copper
- Galvanized steel
- Stainless steel
- Aluminium foil
- Fiberglass
- Aramid

Approvals

- UL, CSA, CE, EAC, VDE, HAR, IEC, EN, ISO, DNV-GL, LR, ABS, RINA, RMRS, BSI



[Download the SAB Cable Design Form](#)

CORD GRIP

SECURING YOUR CABLE

CG 100 Polyamide Cord Grips

Dome cap, black or gray available in NPT, PG, or metric thread

Liquid tight seal, fast and easy installation, wide clamping range, multi-purpose applications, easy handling.



CG 200 Polyamide Cord Grips

Flex cap, black or gray available in NPT, PG, or metric thread

Strain relief gland offers maximum protection against conductor fatigue caused by flexing cables



CG 300 Nickel Plated Brass Cord Grips

Available in NPT, PG, or metric thread

Impact resistant, suitable for industrial applications, water tight, corrosion resistant.



CG 350 SS303 or SS316 Stainless Steel Cord Grips

Available in NPT, PG, or metric thread

Impact resistant, suitable for industrial applications, water tight, corrosion resistant.



EMC-2 Cord Grips

Nickel plated brass EMC cable gland available in NPT, PG, or metric thread

EMC-2 is a nickel plated brass strain relief with integral grounding springs in the gland.

Features:

- One Direction Installation
- Affordable
- Nickel Plated Brass with Tinned Copper Springs



EMC-4 Cord Grips

Nickel plated brass, EMC cable gland, vibration proof, available in NPT, PG, or metric thread

EMC-4 is a nickel plated brass strain relief with integral grounding springs in the gland that will allow the cable to move without damage to the shield.

Features:

- Bi-directional Installation
- Great Anti-Vibration Mechanisms
- Nickel Plated Brass with Tinned Copper Springs



Accessories & Fittings

Enlargers



Reducers



Dummy Plugs



Multi-Hole Bushing



Vent Gland & Plugs



Locknuts



ADDITIONAL PRODUCTS

TEMPERATURE MEASUREMENT

WITH US YOU GET **TEMPERATURE MEASUREMENT**
AND **ACCESSORIES** FOR A WIDE VARIETY OF REQUIREMENTS AND INDUSTRIES.



SAB North America has expertise in thermocouples, resistance thermometers and the cabling you need to build an optimal assembly. We're well-positioned to answer cabling questions that pertain to your temperature measurement needs.

- Protecting armatures and gauge slides
- Mineral insulated thermocouples
- Mineral insulated resistance thermometers
- Temperature measurement in plastics processing industry/Hot runner process
- Temperature measurement in test vehicles
- Probe with stainless steel sleeve
- Compensating and extension cables
- Accessories

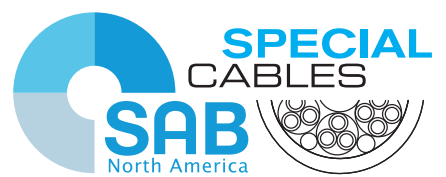
CABLE HARNESSING

WE SUPPLY **HARNESSED**
CABLES AND WIRES

FROM A SINGLE SOURCE.

- Helix cables
- Harnessed cables according to customers' specification
- Cable harnesses
- Harnessed motor and transmission cables for Siemens and Indramat drives
- Harnessed track cable
- Various combinations of connector types and terminals
- Many application of various materials and sheath materials
- Complete solutions
- High quality standard by continuous quality control





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