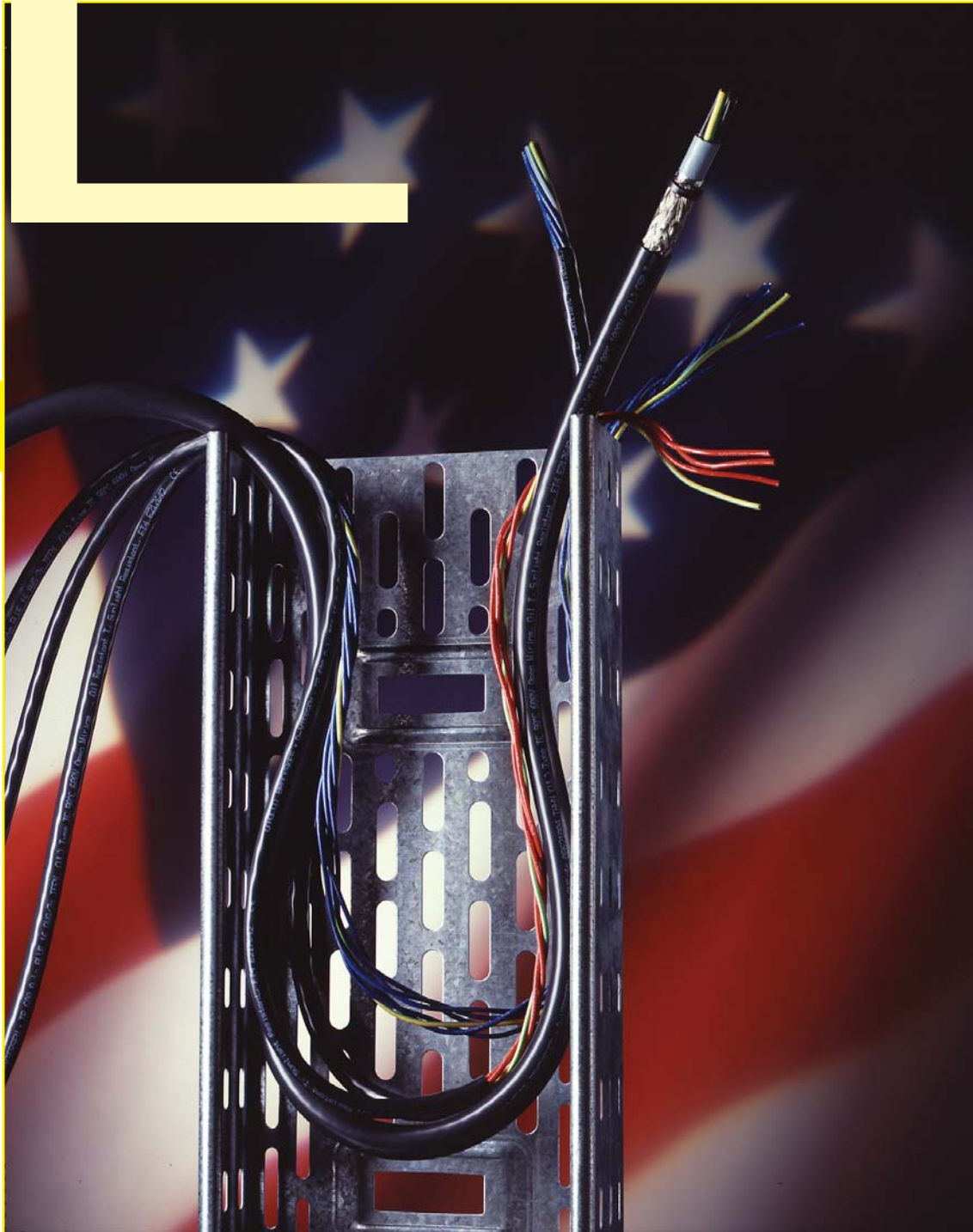


Tray Cables





E-mail: info@sabcable.com



Web site: www.sabcable.com

Chapter

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TR 600 black Type TC, MTW and WTTC	UV and oil resistant 90°C flexible tray cable and machine-tool cable, UL, (UL), c(UL)us, CE	E 7
TR 600 blue Type TC, MTW and WTTC	UV and oil resistant 90°C flexible tray cable and machine-tool cable, UL, (UL), c(UL)us, CE	E 8
TR 600 red Type TC, MTW and WTTC	UV and oil resistant 90°C flexible tray cable and machine-tool cable, UL, (UL), c(UL)us, CE	E 9
TR 600 yellow Type TC, MTW and WTTC	UV and oil resistant 90°C flexible tray cable and machine-tool cable, UL, (UL), c(UL)us, CE	E 10
TR 600 CY black Type TC, MTW and WTTC	Shielded UV and oil resistant 90°C flexible tray cable, UL, (UL), c(UL)us, CE	E 11
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NEW

Chapter

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NEW

NEW

E
3

Applications

■ Application of flexible Power and Control Tray Cable, Type TC, MTW and WTTC

This special multi-conductor cable shall be permitted for use in power, lighting, control and signal circuits in accordance to the National Electrical Code (NEC), NFPA 70 Article 336. In cable trays, in raceways and in outdoor locations supported by a messenger wire in accordance to Underwriters Laboratories Inc. (UL) Standard of Safety UL 1277. For class I division 2 circuits as permitted in NEC article 501.10 (B) and for class II division 2 circuits as permitted in NEC article 502.10 (B). In industrial establishments where the conditions of maintenance and supervision ensure that only qualified persons service the installation, and where the cable is continuously supported and protected against physical damage using mechanical protection, such as struts, angles or channels. This Tray Cable complies with the crush and impact requirements of Type TC and is identified for such use with the ER marking on the jacket. The cable is for use as exposed runs between a cable tray and the utilization device where the cable is continuously supported and protected against physical damage and is secured at intervals not exceeding 1.8 m (6 feet). Grounding for the utilization equipment shall be provided by an equipment grounding conductor within the cable. This Tray Cable shall also be permitted for use in wet locations and is resistant to moisture and corrosive agents. Cables that are surface marked "oil resistant I" have a jacket that is for exposure to mineral oil at temperature not in excess of 60°C (140°F). Marked with "oil resistant II" they have a jacket that is for exposure to mineral oil at temperatures not in excess of 75°C (167°C). The Type TC is flame retardant and self-extinguishing. Also sunlight resistant depending on the jacket color. MTW listed cables can be used in NFPA 79 Machine areas. MTW listed cable is 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). Wind turbine power and control cable is intended to be installed in cable trays or raceways within a wind turbine generator.

Exemplary applications:

TR 600 Type TC, MTW and WTTC
TR 600 Auto Type TC, MTW and WTTC
TR 600 CY Type TC, MTW and WTTC
TR 600 CY Lean Type TC, MTW and WTTC
TR 600 Auto CY Type TC, MTW and WTTC
TR 600 T black Type TC, MTW, WTTC
TR 249 Type TC and STOOW
D 331 PLTC Type PLTC
SABIX® D 331 PLTC Type PLTC

Recommended applications are machine tools, control systems assembly lines, CNC machining, grinding machines, bottling equipment, data processing equipment and connections between control panels and machines

Exemplary applications:

TR 600 HD Type WTTC
TR 600 C HD Type WTTC

In hazardous (classified) areas class I, Division 2 per NEC Article 501.4 (B), UL Type TC is in accordance with UL standard 1277 and NEC Article 336

Exemplary applications:

Servo VFD Type MTW and WTTC
Servo VFD Combo DS Type MTW and WTTC
VFD Lean TR Type MTW and WTTC
VFD symmetrical Lean TR Type MTW and WTTC
VFD symmetrical XL Type WTTC
VFD Dual TR Type MTW and WTTC

Can be used to connect alternating current variable frequency drives to alternating current variable frequency motors

TRAY CABLES

Selection index

		Cable type	TR 600 black	TR 600 blue	TR 600 red	TR 600 yellow	TR 600 CY black	TR 600 CY blue	TR 600 CY Lean	TR 600 Auto black	TR 600 Auto blue	TR 600 Auto red	TR 600 Auto CY	TR 600 HD	TR 600 C HD	TR 600 T black	
Application	Numbered conductors		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Color code acc. to US 2																
	Copper screen						x	x	x				x		x		
	Inner sheath						x	x					x		x		
Temperature range static*	UL-AWM: up to +105°C		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	(UL) / c(UL): up to +90°C		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	(UL) / c(UL) / CSA-AWM: up to +90°C		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	(UL): up to +90°C		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	(UL): up to +75°C		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	- 25°C		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
- 40°C		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
Voltage	Voltage 300 V																
	Voltage (UL) / c(UL) 600 V																
	Voltage UL-AWM / (UL) / c(UL) 600 V		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Voltage (UL) / c(UL) 600 V UL-AWM/CSA-AWM 1000 V																
	Voltage (UL) WTTC 1000 V		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Testing voltage 1500 V																
	Testing voltage 3000 V																
	Testing voltage 4000 V		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Testing voltage 7500 V																
Testing voltage cond./cond. 7500 V conductor/screen 3000 V																	
Standards and approvals	Zero halogen acc. to DIN VDE and IEC																
	Burning characteristics: (UL) FT4 und c(UL) FT1, FT2, FT4		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Burning characteristics: (UL) / c(UL) FT4, c(UL) / CSA-AWM FT1, FT2																
	Burning characteristics: (UL) FT4																
Characteristics	Oil resistance I		x	x	x	x	x	x	x	x	x	x	x				x
	Oil resistance I + II													x	x		
	Sunlight resistance		x	x	x	x	x	x	x	x	x	x	x				x
	Exposed Runs		x	x	x	x	x	x	x	x	x	x	x	x	x		x
	Direct Burial		x	x	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

Temperature range:



*The temperature range for flexing is mentioned on the particular catalog page

TRAY CABLES

Selection index

		Cable type								
		Servo VFD	Servo VFD Combo DS	VFD Lean TR	VFD symmetrical Lean TR	VFD symmetrical XL	VFD Dual TR	TR 249	D 331 PLTC	SABIX® D 331 PLTC
Application	Numbered conductors	x	x	x	x	x	x		x	x
	Color code acc. to US 2							x		
	Copper screen		x	x	x		x			
	Inner sheath						x			
Temperature range static*	UL-AWM: up to +105°C	■		■		■		■		
	(UL) / c(UL): up to +90°C	■		■		■		■		
	(UL) / c(UL) / CSA-AWM: up to +90°C	■		■		■		■		
	(UL): up to +90°C	■		■		■		■		
	(UL): up to +75°C	■		■		■		■		
	- 25°C	■		■		■		■		
	- 40°C	■		■		■		■		
Voltage	Voltage 300 V								x	x
	Voltage (UL) / c(UL) 600 V					x		x		
	Voltage UL-AWM / (UL) / c(UL) 600 V									
	Voltage (UL) / c(UL) 600 V UL-AWM/CSA-AWM 1000 V	x	x	x	x		x			
	Voltage (UL) WTTC 1000 V	x	x	x	x		x			
	Testing voltage 1500 V								x	x
	Testing voltage 3000 V							x		
	Testing voltage 4000 V									
	Testing voltage 7500 V	x			x	x				
Testing voltage cond./cond. 7500 V conductor/screen 3000 V		x	x			x				
Standards and approvals	Zero halogen acc. to DIN VDE and IEC									x
	Burning characteristics: (UL) FT4 und c(UL) FT1, FT2, FT4							x		
	Burning characteristics: (UL) / c(UL) FT4, c(UL) / CSA-AWM FT1, FT2	x	x	x	x		x			
Characteristics	Burning characteristics: (UL) FT4					x			x	x
	Oil resistance I	x	x	x	x	x	x	x		
	Oil resistance I + II									
	Sunlight resistance	x	x	x	x	x	x	x	x	x
	Exposed Runs	x	x	x	x	x	x	x		
	Direct Burial	x	x	x	x	x	x	x		
Machinery Area	x	x	x	x		x	x			

Temperature range:



*The temperature range for flexing is mentioned on the particular catalog page



TR 600 black Type TC, MTW and WTTC UV and oil resistant 90°C flexible tray cable and machine-tool cable



Marking for TR 600 black 02841637: SAB BRÖCKSKES · D-VIERSEN · TR 600 black 16 AWG/37c 02841637
 TFFN (UL) Type TC-ER 90°C 600V, Oil Resistant I, Sunlight Resistant, Direct Burial, FT4 (UL) WTTC 90°C 1000V (UL) MTW 16 AWG/37c 600V flexing
 AWM Style 21179 600V 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 black is a multi-conductor, 600 V, 90°C, UL recognized and CSA approved, UV and oil resistant flexible tray cable. 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 black 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 black 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 strands acc. to IEC 60228 class 5 and UL standard 758 table 5.1 + UL 1581 table 20.1
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:

- ▶ Flexible cable for cable tray use even where sunlight resistance and open wiring is required
- ▶ NFPA 79 for Industrial Machinery
- ▶ WTTC approval
- ▶ 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:	4000 V	
Min. bending radius fixed installation:	< 12 mm = 3 x O.D. > 12 mm = 4 x O.D.	
free movement:	< 12 mm = 5 x O.D. > 12 mm = 6 x O.D.	
Radiation resistance:	8 x 10 ⁷ cJ/kg	
Temperature:	UL-AWM: up to +105°C static: -25°C	(UL) / c(UL) / CSA-AWM: up to +90°C
Burning characteristics:	(UL) FT4 + c(UL) FT1, FT2, FT4 + 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 N/25	

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG				
02841803	3	0.303	7.7	56
02841804	4	0.327	8.3	67
02841805	5	0.354	9.0	79
02841807	7	0.386	9.8	98
02841809	9	0.469	11.9	130
02841812	12	0.492	12.5	153
02841816	16	0.575	14.6	208
02841818	18	0.602	15.3	224
02841819	19	0.602	15.3	237
02841825	25	0.713	18.1	302
02841827	27	0.713	18.1	314
02841837	37	0.791	20.1	417
02841850	50	0.969	24.6	583
▶ 16 AWG				
02841603	3	0.327	8.3	69
02841604	4	0.354	9.0	83
02841605	5	0.386	9.8	99
02841607	7	0.421	10.7	125
02841608	8	0.484	12.3	149
02841609	9	0.516	13.1	167

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 16 AWG				
02841612	12	0.571	14.5	210
02841616	16	0.630	16.0	267
02841618	18	0.661	16.8	295
02841619	19	0.661	16.8	304
02841625	25	0.783	19.9	390
02841627	27	0.783	19.9	414
02841637	37	0.917	23.3	579
02841641	41	0.984	25.0	643
02841650	50	1.067	27.1	757
02841661	61	1.134	28.8	898
▶ 14 AWG				
02841403	3	0.362	9.2	93
02841404	4	0.394	10.0	113
02841405	5	0.429	10.9	136
02841407	7	0.469	11.9	173
02841409	9	0.606	15.4	243
02841412	12	0.634	16.1	292
02841418	18	0.740	18.8	412
02841425	25	0.925	23.5	590

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 12 AWG				
02841203	3	0.413	10.5	130
02841204	4	0.449	11.4	160
02841205	5	0.492	12.5	194
02841207	7	0.567	14.4	265
▶ 10 AWG				
02841003	3	0.488	12.4	188
02841004	4	0.559	14.2	246
02841005	5	0.614	15.6	298
02841007	7	0.669	17.0	385
▶ 8 AWG				
02840804	4	0.713	18.1	401
02840805	5	0.783	19.9	481
▶ 6 AWG				
02840604	4	0.898	22.8	610
02840605	5	0.988	25.1	739
▶ 4 AWG				
02840404	4	1.079	27.4	915
02840405	5	1.193	30.3	1113
▶ 2 AWG				
02840204	4	1.240	31.5	1296
02840205	5	1.374	34.9	1575

Other dimensions and colors are possible on request.





TRAY CABLES



TR 600 blue

Type TC, MTW and WTTC

UV and oil resistant 90°C flexible tray cable and machine-tool cable



Marking for TR 600 blue 02861637:

SAB BRÖCKSKES · D-VIERSEN · TR 600 blue 16 AWG/37c 02861637 TFFN (UL) Type TC-ER 90°C 600V, Oil Resistant I, Sunlight Resistant,

Direct Burial, FT4 (UL) WTTC 90°C 1000V (UL) MTW 16 AWG/37c 600V flexing AWM Style 21179 600V c(UL) Type CIC 90°C dry 600V FT1 FT2 FT4 CE

TR 600 blue is a multi-conductor, 600 V, 90°C, UL recognized, UV and oil resistant flexible tray cable. 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 blue 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 blue 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 strands acc. to IEC 60228 class 5 and UL standard 758 table 5.1 + UL 1581 table 20.1
Insulation:	special formulated PVC/Nylon
Color code:	blue 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:

- ▶ Flexible cable for cable tray use even where sunlight resistance and open wiring is required
- ▶ NFPA 79 for Industrial Machinery
- ▶ WTTC approval
- ▶ WTTC: UL Subject 2277
- ▶ TC: UL Standard 1277
- ▶ (UL)(cUL) listed

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTC: 1000 V	
Testing voltage:	4000 V	
Min. bending radius <i>fixed installation:</i>	< 12 mm = 3 x O.D. > 12 mm = 4 x O.D.	
<i>free movement:</i>	< 12 mm = 5 x O.D. > 12 mm = 6 x O.D.	
Radiation resistance:	8 x 10 ⁷ cJ/kg	
Temperature:	UL-AWM: up to +105°C -25°C	(UL) / c(UL): up to +90°C
<i>static:</i>		
Burning characteristics:	(UL) FT4 and c(UL) FT1, FT2, FT4	
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 N/25	

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG				
02861803	3	0.303	7.7	56
02861804	4	0.327	8.3	67
02861805	5	0.354	9.0	79
02861807	7	0.386	9.8	98
02861809	9	0.469	11.9	130
02861812	12	0.492	12.5	153
02861816	16	0.575	14.6	208
02861818	18	0.602	15.3	224
02861819	19	0.602	15.3	237
02861825	25	0.713	18.1	302
02861827	27	0.713	18.1	314
02861837	37	0.791	20.1	417
02861850	50	0.969	24.6	583
▶ 16 AWG				
02861603	3	0.327	8.3	69
02861604	4	0.354	9.0	83
02861605	5	0.386	9.8	99
02861607	7	0.421	10.7	125
02861608	8	0.484	12.3	149
02861609	9	0.516	13.1	167

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 16 AWG				
02861612	12	0.571	14.5	210
02861616	16	0.630	16.0	267
02861618	18	0.661	16.8	295
02861619	19	0.661	16.8	304
02861625	25	0.783	19.9	390
02861627	27	0.783	19.9	414
02861637	37	0.917	23.3	579
02861641	41	0.984	25.0	643
02861650	50	1.067	27.1	757
02861661	61	1.134	28.8	898
▶ 14 AWG				
02861403	3	0.362	9.2	93
02861404	4	0.394	10.0	113
02861405	5	0.429	10.9	136
02861407	7	0.469	11.9	173
02861409	9	0.606	15.4	243
02861412	12	0.634	16.1	292
02861418	18	0.740	18.8	412
02861425	25	0.925	23.5	590

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 12 AWG				
02861203	3	0.413	10.5	130
02861204	4	0.449	11.4	160
02861205	5	0.492	12.5	194
02861207	7	0.567	14.4	265
▶ 10 AWG				
02861003	3	0.488	12.4	188
02861004	4	0.559	14.2	246
02861005	5	0.614	15.6	298
02861007	7	0.669	17.0	385
▶ 8 AWG				
02860804	4	0.713	18.1	401
02860805	5	0.783	19.9	481
▶ 6 AWG				
02860604	4	0.898	22.8	610
02860605	5	0.988	25.1	739
▶ 4 AWG				
02860404	4	1.079	27.4	915
02860405	5	1.193	30.3	1113
▶ 2 AWG				
02860204	4	1.240	31.5	1296
02860205	5	1.374	34.9	1575

Other dimensions and colors are possible on request.

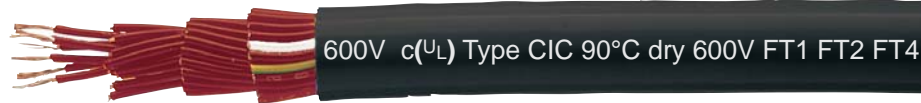
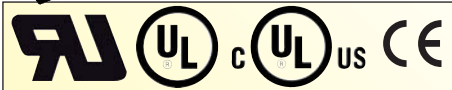
E-mail: info@sabcable.com



Web site: www.sabcable.com



TR 600 red Type TC, MTW and WTTC UV and oil resistant 90°C flexible tray cable and machine-tool cable



Marking for TR 600 red 02981637:

SAB BRÖCKSKES · D-VIERSEN · TR 600 red 16 AWG/37c 02981637 TFFN (UL) Type TC-ER 90°C 600V, Oil Resistant I, Sunlight Resistant, Direct Burial, FT4 (UL) WTTC 90°C 1000V (UL) MTW 16 AWG/37c 600V flexing AWM Style 21179 600V c(UL) Type CIC 90°C dry 600V FT1 FT2 FT4 CE

TR 600 red is a multi-conductor, 600 V, 90°C, UL recognized, UV and oil resistant flexible tray cable. 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 red 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 red 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 strands acc. to IEC 60228 class 5 and UL standard 758 table 5.1 + UL 1581 table 20.1
Insulation:	special formulated PVC/Nylon
Color code:	red 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:

- ▶ Flexible cable for cable tray use even where sunlight resistance and open wiring is required
- ▶ NFPA 79 for Industrial Machinery
- ▶ WTTC approval
- ▶ WTTC: UL Subject 2277
- ▶ TC: UL Standard 1277
- ▶ (UL)(cUL) listed

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTC: 1000 V	
Testing voltage:	4000 V	
Min. bending radius <i>fixed installation:</i>	< 12 mm = 3 x O.D. > 12 mm = 4 x O.D.	
<i>free movement:</i>	< 12 mm = 5 x O.D. > 12 mm = 6 x O.D.	
Radiation resistance:	8 x 10 ⁷ cJ/kg	
Temperature:	UL-AWM: up to +105°C	(UL) / c(UL): up to +90°C
<i>static:</i>	-25°C	
Burning characteristics:	(UL) FT4 and c(UL) FT1, FT2, FT4	
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 N/25	

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 18 AWG				
02981803	3	0.303	7.7	56
02981804	4	0.327	8.3	67
02981805	5	0.354	9.0	79
02981807	7	0.386	9.8	98
02981809	9	0.469	11.9	130
02981812	12	0.492	12.5	153
02981816	16	0.575	14.6	208
02981818	18	0.602	15.3	224
02981819	19	0.602	15.3	237
02981825	25	0.713	18.1	302
02981827	27	0.713	18.1	314
02981837	37	0.791	20.1	417
02981850	50	0.969	24.6	583
▶ 16 AWG				
02981603	3	0.327	8.3	69
02981604	4	0.354	9.0	83
02981605	5	0.386	9.8	99
02981607	7	0.421	10.7	125
02981608	8	0.484	12.3	149
02981609	9	0.516	13.1	167

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 16 AWG				
02981612	12	0.571	14.5	210
02981616	16	0.630	16.0	267
02981618	18	0.661	16.8	295
02981619	19	0.661	16.8	304
02981625	25	0.783	19.9	390
02981627	27	0.783	19.9	414
02981637	37	0.917	23.3	579
02981641	41	0.984	25.0	643
02981650	50	1.067	27.1	757
02981661	61	1.134	28.8	898
▶ 14 AWG				
02981403	3	0.362	9.2	93
02981404	4	0.394	10.0	113
02981405	5	0.429	10.9	136
02981407	7	0.469	11.9	173
02981409	9	0.606	15.4	243
02981412	12	0.634	16.1	292
02981418	18	0.740	18.8	412
02981425	25	0.925	23.5	590

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 12 AWG				
02981203	3	0.413	10.5	130
02981204	4	0.449	11.4	160
02981205	5	0.492	12.5	194
02981207	7	0.567	14.4	265
▶ 10 AWG				
02981003	3	0.488	12.4	188
02981004	4	0.559	14.2	246
02981005	5	0.614	15.6	298
02981007	7	0.669	17.0	385
▶ 8 AWG				
02980804	4	0.713	18.1	401
02980805	5	0.783	19.9	481
▶ 6 AWG				
02980604	4	0.898	22.8	610
02980605	5	0.988	25.1	739
▶ 4 AWG				
02980404	4	1.079	27.4	915
02980405	5	1.193	30.3	1113
▶ 2 AWG				
02980204	4	1.240	31.5	1296
02980205	5	1.374	34.9	1575

Other dimensions and colors are possible on request.





TRAY CABLES



TR 600 yellow Type TC, MTW and WTTC

UV and oil resistant 90°C flexible tray cable and machine-tool cable



Marking for TR 600 yellow 02901637:

SAB BRÖCKSKES · D-VIERSEN · TR 600 yellow 16 AWG/37c 02901637 TFFN (UL) Type TC-ER 90°C 600V, Oil Resistant I, Sunlight Resistant,

Direct Burial, FT4 (UL) WTTC 90°C 1000V (UL) MTW 16 AWG/37c 600V flexing AWM Style 21179 600V c(UL) Type CIC 90°C dry 600V FT1 FT2 FT4 CE

TR 600 yellow is a multi-conductor, 600 V, 90°C, UL recognized, UV and oil resistant flexible tray cable. 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 yellow 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 yellow 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 strands acc. to IEC 60228 class 5 and UL standard 758 table 5.1 + UL 1581 table 20.1
Insulation:	special formulated PVC/Nylon
Color code:	yellow 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:

- ▶ Flexible cable for cable tray use even where sunlight resistance and open wiring is required
- ▶ NFPA 79 for Industrial Machinery
- ▶ WTTC approval
- ▶ WTTC: UL Subject 2277
- ▶ TC: UL Standard 1277
- ▶ (UL)(cUL) listed

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTC: 1000 V	
Testing voltage:	4000 V	
Min. bending radius <i>fixed installation:</i>	< 12 mm = 3 x O.D. > 12 mm = 4 x O.D.	
<i>free movement:</i>	< 12 mm = 5 x O.D. > 12 mm = 6 x O.D.	
Radiation resistance:	8 x 10 ⁷ cJ/kg	
Temperature:	UL-AWM: up to +105°C -25°C	(UL) / c(UL): up to +90°C
<i>static:</i>		
Burning characteristics:	(UL) FT4 and c(UL) FT1, FT2, FT4	
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 N/25	

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG				
02901803	3	0.303	7.7	56
02901804	4	0.327	8.3	67
02901805	5	0.354	9.0	79
02901807	7	0.386	9.8	98
02901809	9	0.469	11.9	130
02901812	12	0.492	12.5	153
02901816	16	0.575	14.6	208
02901818	18	0.602	15.3	224
02901819	19	0.602	15.3	237
02901825	25	0.713	18.1	302
02901827	27	0.713	18.1	314
02901837	37	0.791	20.1	417
02901850	50	0.969	24.6	583
▶ 16 AWG				
02901603	3	0.327	8.3	69
02901604	4	0.354	9.0	83
02901605	5	0.386	9.8	99
02901607	7	0.421	10.7	125
02901608	8	0.484	12.3	149
02901609	9	0.516	13.1	167

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 16 AWG				
02901612	12	0.571	14.5	210
02901616	16	0.630	16.0	267
02901618	18	0.661	16.8	295
02901619	19	0.661	16.8	304
02901625	25	0.783	19.9	390
02901627	27	0.783	19.9	414
02901637	37	0.917	23.3	579
02901641	41	0.984	25.0	643
02901650	50	1.067	27.1	757
02901661	61	1.134	28.8	898
▶ 14 AWG				
02901403	3	0.362	9.2	93
02901404	4	0.394	10.0	113
02901405	5	0.429	10.9	136
02901407	7	0.469	11.9	173
02901409	9	0.606	15.4	243
02901412	12	0.634	16.1	292
02901418	18	0.740	18.8	412
02901425	25	0.925	23.5	590

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 12 AWG				
02901203	3	0.413	10.5	130
02901204	4	0.449	11.4	160
02901205	5	0.492	12.5	194
02901207	7	0.567	14.4	265
▶ 10 AWG				
02901003	3	0.488	12.4	188
02901004	4	0.559	14.2	246
02901005	5	0.614	15.6	298
02901007	7	0.669	17.0	385
▶ 8 AWG				
02900804	4	0.713	18.1	401
02900805	5	0.783	19.9	481
▶ 6 AWG				
02900604	4	0.898	22.8	610
02900605	5	0.988	25.1	739
▶ 4 AWG				
02900404	4	1.079	27.4	915
02900405	5	1.193	30.3	1113
▶ 2 AWG				
02900204	4	1.240	31.5	1296
02900205	5	1.374	34.9	1575

Other dimensions and colors are possible on request.

E-mail: info@sabcable.com



Web site: www.sabcable.com

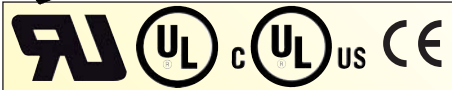
TRAY CABLES



**NFPA 79
for Industrial
Machinery**

TR 600 CY black Type TC, MTW and WTTTC

Shielded UV and oil resistant
90°C flexible tray cable
and machine-tool cable



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

Marking for TR 600 CY black 32231612: SAB BRÖCKSKES · D-VIERSEN ·

TR 600 CY black 16 AWG/12c 32231612 TFFN (UL) Type TC-ER 90°C 600V, Oil Resistant I, Sunlight Resistant, Direct Burial, FT4 (UL) WTTTC 90°C 1000V (UL) MTW 16 AWG/12c 600V flexing AWM Style 21179 600V c(UL) Type CIC SHIELDED 90°C dry 600V FT1 FT2 FT4 CE

TR 600 CY black is a multi-conductor, 600 V, 90°C, UL recognized, UV and oil resistant flexible tray cable. 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. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. TR 600 CY black 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 black 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 strands acc. to IEC 60228 class 5 and UL standard 758 table 5.1 + UL 1581 table 20.1
Insulation:	special formulated PVC/Nylon
Color code:	black conductors with consecutive white numbers; green-yellow earth wire from 3 conductors
Stranding:	in layers
Inner jacket:	special formulated PVC, color black
Screen:	tinned copper braiding
Jacket material:	special sunlight and oil resistant PVC
Jacket color:	black

Outstanding features:

- Flexible cable for cable tray use even where sunlight resistance and open wiring is required
- NFPA 79 for Industrial Machinery
- WTTTC approval
- WTTTC: UL Subject 2277
- TC: UL Standard 1277
- (UL)/(cUL) listed

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTTC: 1000 V	
Testing voltage:	4000 V	
Min. bending radius		
<i>fixed installation:</i>	5 x O.D.	
<i>free movement:</i>	10 x O.D.	
Radiation resistance:	8 x 10 ⁷ cJ/kg	
Temperature:	UL-AWM: up to +105°C -25°C	(UL) / c(UL): up to +90°C
<i>static:</i>		
Burning characteristics:	(UL) FT4 and c(UL) FT1, FT2, FT4	
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 N/25	

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item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG				
32231803	3	0.358	9.1	79
32231804	4	0.382	9.7	92
32231805	5	0.409	10.4	107
32231807	7	0.449	11.4	136
32231809	9	0.559	14.2	188
32231812	12	0.591	15.0	226
32231816	16	0.677	17.2	298
32231818	18	0.705	17.9	325
32231819	19	0.705	17.9	331
32231825	25	0.815	20.7	411
32231827	27	0.815	20.7	425
32231837	37	0.937	23.8	573
32231850	50	1.098	27.9	758
▶ 16 AWG				
32231603	3	0.382	9.7	95
32231604	4	0.409	10.4	111
32231605	5	0.449	11.4	138
32231607	7	0.484	12.3	167
32231608	8	0.583	14.8	222
32231609	9	0.614	15.6	247
32231612	12	0.673	17.1	302
32231616	16	0.732	18.6	364

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 16 AWG				
32231618	18	0.764	19.4	400
32231619	19	0.764	19.4	409
32231625	25	0.929	23.6	546
32231627	27	0.929	23.6	570
32231637	37	1.047	26.6	748
32231641	41	1.114	28.3	816
32231650	50	1.197	30.4	946
32231661	61	1.264	32.1	1100
▶ 14 AWG				
32231403	3	0.417	10.6	121
32231404	4	0.457	11.6	154
32231405	5	0.492	12.5	179
32231407	7	0.559	14.2	234
32231409	9	0.709	18.0	339
32231412	12	0.736	18.7	389
32231418	18	0.886	22.5	566
32231425	25	1.055	26.8	760
▶ 12 AWG				
32231203	3	0.476	12.1	172
32231204	4	0.512	13.0	206

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 12 AWG				
32231205	5	0.591	15.0	269
32231207	7	0.669	17.0	352
▶ 10 AWG				
32231003	3	0.587	14.9	262
32231004	4	0.661	16.8	333
32231005	5	0.717	18.2	393
32231007	7	0.772	19.6	491
▶ 8 AWG				
32230804	4	0.815	20.7	498
32230805	5	0.929	23.6	627
▶ 6 AWG				
32230604	4	1.028	26.1	777
32230605	5	1.118	28.4	917
▶ 4 AWG				
32230404	4	1.209	30.7	1111
32230405	5	1.323	33.6	1327
▶ 2 AWG				
32230204	4	1.370	34.8	1519
32230205	5	1.504	38.2	1823

Other dimensions and colors are possible on request.

E-mail: info@sabcable.com



Web site: www.sabcable.com

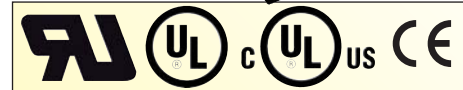
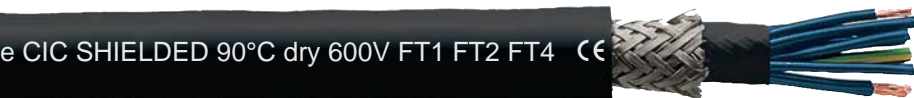


TRAY CABLES



TR 600 CY blue Type TC, MTW and WTTC

Shielded UV and oil resistant 90°C flexible tray cable and machine-tool cable



Marking for TR 600 CY blue 32211612: SAB BRÖCKSKES · D-VIERSEN ·

TR 600 CY blue 16 AWG/12c 32211612 TFFN (UL) Type TC-ER 90°C 600V, Oil Resistant I, Sunlight Resistant, Direct Burial,

FT4 (UL) WTTC 90°C 1000V (UL) MTW 16 AWG/12c 600V flexing AWM Style 21179 600V c(UL) Type CIC SHIELDED 90°C dry 600V FT1 FT2 FT4 CE

TR 600 CY blue is a multi-conductor, 600 V, 90°C, UL recognized, UV and oil resistant flexible tray cable. 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. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. TR 600 CY blue 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 blue 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 strands acc. to IEC 60228 class 5 and UL standard 758 table 5.1 + UL 1581 table 20.1
Insulation:	special formulated PVC/Nylon
Color code:	blue conductors with consecutive white numbers; green-yellow earth wire from 3 conductors
Stranding:	in layers
Inner jacket:	special formulated PVC, color black
Screen:	tinned copper braiding
Jacket material:	special sunlight and oil resistant PVC
Jacket color:	black

Outstanding features:

- Flexible cable for cable tray use even where sunlight resistance and open wiring is required
- NFPA 79 for Industrial Machinery
- WTTC approval
- WTTC: UL Subject 2277
- TC: UL Standard 1277
- (UL)(cUL) listed

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V	
	(UL) WTTC: 1000 V	
Testing voltage:	4000 V	
Min. bending radius		
<i>fixed installation:</i>	5 x O.D.	
<i>free movement:</i>	10 x O.D.	
Radiation resistance:	8 x 10 ⁷ cJ/kg	
Temperature:	UL-AWM:	(UL) / c(UL):
<i>static:</i>	up to +105°C	up to +90°C
	-25°C	
Burning characteristics:	(UL) FT4 and c(UL) FT1, FT2, FT4	
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 N/25	

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG				
32211803	3	0.358	9.1	79
32211804	4	0.382	9.7	92
32211805	5	0.409	10.4	107
32211807	7	0.449	11.4	136
32211809	9	0.559	14.2	188
32211812	12	0.591	15.0	226
32211816	16	0.677	17.2	298
32211818	18	0.705	17.9	325
32211819	19	0.705	17.9	331
32211825	25	0.815	20.7	411
32211827	27	0.815	20.7	425
32211837	37	0.937	23.8	573
32211850	50	1.098	27.9	758
▶ 16 AWG				
32211603	3	0.382	9.7	95
32211604	4	0.409	10.4	111
32211605	5	0.449	11.4	138
32211607	7	0.484	12.3	167
32211608	8	0.583	14.8	222
32211609	9	0.614	15.6	247
32211612	12	0.673	17.1	302
32211616	16	0.732	18.6	364

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 16 AWG				
32211618	18	0.764	19.4	400
32211619	19	0.764	19.4	409
32211625	25	0.929	23.6	546
32211627	27	0.929	23.6	570
32211637	37	1.047	26.6	748
32211641	41	1.114	28.3	816
32211650	50	1.197	30.4	946
32211661	61	1.264	32.1	1100
▶ 14 AWG				
32211403	3	0.417	10.6	121
32211404	4	0.457	11.6	154
32211405	5	0.492	12.5	179
32211407	7	0.559	14.2	234
32211409	9	0.709	18.0	339
32211412	12	0.736	18.7	389
32211418	18	0.886	22.5	566
32211425	25	1.055	26.8	760
▶ 12 AWG				
32211203	3	0.476	12.1	172
32211204	4	0.512	13.0	206

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 12 AWG				
32211205	5	0.591	15.0	269
32211207	7	0.669	17.0	352
▶ 10 AWG				
32211003	3	0.587	14.9	262
32211004	4	0.661	16.8	333
32211005	5	0.717	18.2	393
32211007	7	0.772	19.6	491
▶ 8 AWG				
32210804	4	0.815	20.7	498
32210805	5	0.929	23.6	627
▶ 6 AWG				
32210604	4	1.028	26.1	777
32210605	5	1.118	28.4	917
▶ 4 AWG				
32210404	4	1.209	30.7	1111
32210405	5	1.323	33.6	1327
▶ 2 AWG				
32210204	4	1.370	34.8	1519
32210205	5	1.504	38.2	1823

Other dimensions and colors are possible on request.

E-mail: info@sabcable.com



Web site: www.sabcable.com

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TR 600 CY Lean

Type TC, MTW and WTTC

Shielded UV and oil resistant 90°C flexible tray cable and machine-tool cable



CIC SHIELDED 90°C dry 600V FT1 FT2 FT4

Marking for TR 600 CY Lean 32241625: SAB BRÖCKSKES · D-VIERSEN ·

TR 600 CY Lean 16 AWG/25c 32241625 TFFN (UL) Type TC-ER 90°C 600V, Oil Resistant I, Sunlight Resistant, Direct Burial, FT4 (UL) WTTC 90°C 1000V (UL) MTW 16 AWG/25c 600V flexing AWM Style 21179 600V c(UL) Type CIC SHIELDED 90°C dry 600V FT1 FT2 FT4 CE

TR 600 CY Lean is a multi-conductor, 600 V, 90°C, UL recognized, UV and oil resistant flexible tray cable. 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. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. TR 600 CY Lean 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 Lean 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 strands acc. to IEC 60228 class 5 and UL standard 758 table 5.1 + UL 1581 table 20.1
Insulation:	special formulated PVC/Nylon
Color code:	black conductors with numbers; green-yellow earth wire from 3 conductors
Stranding:	in layers
Wrapping:	PETP foil
Screen:	tinned copper braiding
Sheath material:	special sunlight and oil resistant PVC
Sheath color:	black (RAL 9005)

Outstanding features:

- Flexible cable for cable tray use
- Oil resistance
- Sunlight resistance
- NFPA 79 for Industrial Machinery
- WTTC approval
- WTTC: UL Subject 2277
- TC: UL Standard 1277
- (UL)/(cUL) listed

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTC: 1000 V
Testing voltage:	4000 V
Min. bending radius	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature:	UL-AWM: up to +105°C (UL) / c(UL): up to +90°C <i>static:</i> -25°C
Burning characteristics:	(UL) FT4 and c(UL) FT1, FT2, FT4
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 N/25

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/ft
➤ 16 AWG				
32241603	3	0.346	8.8	73
32241604	4	0.374	9.5	89
32241605	5	0.406	10.3	106
32241607	7	0.449	11.4	140
32241612	12	0.606	15.4	248
32241618	18	0.697	17.7	337
32241625	25	0.819	20.8	439

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/ft
➤ 14 AWG				
32241403	3	0.382	9.7	95
32241404	4	0.413	10.5	118
32241405	5	0.457	11.6	152
32241407	7	0.496	12.6	190
32241412	12	0.669	17.0	327
32241418	18	0.776	19.7	460
32241425	25	0.961	24.4	655
➤ 12 AWG				
32241204	4	0.476	12.1	172
32241205	5	0.520	13.2	209
32241207	7	0.602	15.3	292

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/ft
➤ 10 AWG				
32241004	4	0.594	15.1	272
32241005	5	0.650	16.5	329
32241007	7	0.705	17.9	415
➤ 8 AWG				
32240804	4	0.748	19.0	416
➤ 6 AWG				
32240604	4	0.933	23.7	626
➤ 4 AWG				
32240404	4	1.114	28.3	913
➤ 2 AWG				
32240204	4	1.276	32.4	1260

Other dimensions and colors are possible on request.





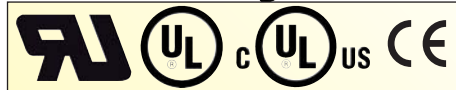
TRAY CABLES



TR 600 Auto black

Type TC,
MTW and
WTTC

UV and oil resistant
90°C flexible tray cable and
machine-tool cable which
could be used in cable track



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

Marking for TR 600 Auto black 32121625:

SAB BRÖCKSKES · D-VIERSEN · TR 600 Auto black 16 AWG/25c 32121625 TFFN (UL) Type TC-ER 90°C 600V, Oil Resistant I, Sunlight Resistant, Direct Burial, FT4 (UL) WTTC 90°C 1000V (UL) MTW 16 AWG/25c 600V flexing AWM Style 21179 600V c(UL) Type CIC 90°C dry 600V FT1 FT2 FT4 CE

TR 600 black is a multi-conductor, 600 V, 90°C, UL recognized, UV and oil resistant flexible tray cable. 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 black 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 black 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 strands acc. to IEC 60228 class 6
Insulation:	special formulated PVC/Nylon
Color code:	black conductors with numbers; white-blue ground wire and green-yellow earth wire from 3 conductors
Stranding:	in layers
Jacket material:	special sunlight and oil resistant PVC
Jacket color:	black

Outstanding features:

- ▶ Flexible cable for cable tray use even where sunlight resistance and open wiring is required
- ▶ NFPA 79 for Industrial Machinery
- ▶ WTTC approval
- ▶ WTTC: UL Subject 2277
- ▶ TC: UL Standard 1277
- ▶ (UL)(cUL) listed

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTC: 1000 V	
Testing voltage:	4000 V	
Min. bending radius <i>fixed installation:</i>	< 12 mm = 3 x O.D. > 12 mm = 4 x O.D.	
<i>free movement:</i>	< 12 mm = 5 x O.D. > 12 mm = 6 x O.D.	
<i>continuous flexing:</i>	12 x O.D.	
Radiation resistance:	8 x 10 ⁷ cJ/kg	
Temperature:	UL-AWM: up to +105°C	(UL) / c(UL): up to +90°C
<i>static:</i>	-25°C	
Burning characteristics:	(UL) FT4 and c(UL) FT1, FT2, FT4	
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 N/25	

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 18 AWG				
32121803	3	0.303	7.7	56
32121804	4	0.327	8.3	67
32121805	5	0.354	9.0	84
32121807	7	0.413	10.5	111
32121809	9	0.469	11.9	141
32121812	12	0.492	12.5	156
32121816	16	0.575	14.6	212
32121818	18	0.602	15.3	235
32121819	19	0.630	16.0	253
32121825	25	0.713	18.1	309
▶ 16 AWG				
32121603	3	0.327	8.3	71
32121604	4	0.354	9.0	87
32121605	5	0.386	9.8	101
32121607	7	0.453	11.5	142
32121608	8	0.484	12.3	163
32121609	9	0.516	13.1	181
32121612	12	0.571	14.5	218
32121616	16	0.630	16.0	276
32121618	18	0.661	16.8	304
32121619	19	0.693	17.6	329
32121625	25	0.783	19.9	406

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 14 AWG				
32121403	3	0.390	9.9	103
32121404	4	0.421	10.7	124
32121405	5	0.461	11.7	155
32121407	7	0.571	14.5	224
32121409	9	0.650	16.5	290
32121412	12	0.685	17.4	322
32121418	18	0.799	20.3	464
32121425	25	0.996	25.3	649
▶ 12 AWG				
32121203	3	0.425	10.8	140
32121204	4	0.465	11.8	173
32121205	5	0.539	13.7	220
32121207	7	0.630	16.0	288

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 10 AWG				
32121003	3	0.524	13.3	199
32121004	4	0.571	14.5	246
32121005	5	0.626	15.9	302
32121007	7	0.736	18.7	392
▶ 8 AWG				
32120804	4	0.736	18.7	429
32120805	5	0.811	20.6	530
▶ 6 AWG				
32120604	4	0.898	22.8	616
32120605	5	0.988	25.1	737
▶ 4 AWG				
32120404	4	1.098	27.9	972
32120405	5	1.217	30.9	1116
▶ 2 AWG				
32120204	4	1.268	32.2	1308
32120205	5	1.406	35.7	1592

Other dimensions and colors are possible on request.

E-mail: info@sabcable.com



Web site: www.sabcable.com

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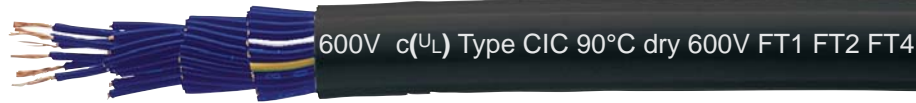
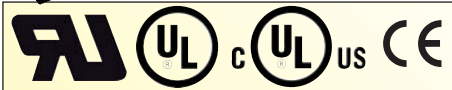


**High-flex
NFPA 79 for
Industrial Machinery**

TR 600 Auto blue

**Type TC,
MTW and
WTTTC**

**UV and oil
resistant 90°C flexible tray cable
and machine-tool cable which
could be used in cable track**



Marking for TR 600 Auto blue 32101625:

SAB BRÖCKSKES · D-VIERSEN · TR 600 Auto blue 16 AWG/25c 32101625 TFFN (UL) Type TC-ER 90°C 600V, Oil Resistant I, Sunlight Resistant, Direct Burial, FT4 (UL) WTTTC 90°C 1000V (UL) MTW 16 AWG/25c 600V flexing AWM Style 21179 600V c(UL) Type CIC 90°C dry 600V FT1 FT2 FT4 CE

TR 600 blue is a multi-conductor, 600 V, 90°C, UL recognized, UV and oil resistant flexible tray cable. 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 blue 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 blue 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 strands acc. to IEC 60228 class 6
Insulation:	special formulated PVC/Nylon
Color code:	blue conductors with numbers; white-blue ground wire and green-yellow earth wire from 3 conductors
Stranding:	in layers
Jacket material:	special sunlight and oil resistant PVC
Jacket color:	black

Outstanding features:

- ▶ Flexible cable for cable tray use even where sunlight resistance and open wiring is required
- ▶ NFPA 79 for Industrial Machinery
- ▶ WTTTC approval
- ▶ WTTTC: UL Subject 2277
- ▶ TC: UL Standard 1277
- ▶ (UL)(cUL) listed

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTTC: 1000 V	
Testing voltage:	4000 V	
Min. bending radius <i>fixed installation:</i>	< 12 mm = 3 x O.D. > 12 mm = 4 x O.D.	
<i>free movement:</i>	< 12 mm = 5 x O.D. > 12 mm = 6 x O.D.	
<i>continuous flexing:</i>	12 x O.D.	
Radiation resistance:	8 x 10 ⁷ cJ/kg	
Temperature:	UL-AWM: up to +105°C	(UL) / c(UL): up to +90°C
<i>static:</i>	-25°C	
Burning characteristics:	(UL) FT4 and c(UL) FT1, FT2, FT4	
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 N/25	

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item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 18 AWG				
32101803	3	0.303	7.7	56
32101804	4	0.327	8.3	67
32101805	5	0.354	9.0	84
32101807	7	0.413	10.5	111
32101809	9	0.469	11.9	141
32101812	12	0.492	12.5	156
32101816	16	0.575	14.6	212
32101818	18	0.602	15.3	235
32101819	19	0.630	16.0	253
32101825	25	0.713	18.1	309
▶ 16 AWG				
32101603	3	0.327	8.3	71
32101604	4	0.354	9.0	87
32101605	5	0.386	9.8	101
32101607	7	0.453	11.5	142
32101608	8	0.484	12.3	163
32101609	9	0.516	13.1	181
32101612	12	0.571	14.5	218
32101616	16	0.630	16.0	276
32101618	18	0.661	16.8	304
32101619	19	0.693	17.6	329
32101625	25	0.783	19.9	406

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 14 AWG				
32101403	3	0.390	9.9	103
32101404	4	0.421	10.7	124
32101405	5	0.461	11.7	155
32101407	7	0.571	14.5	224
32101409	9	0.650	16.5	290
32101412	12	0.685	17.4	322
32101418	18	0.799	20.3	464
32101425	25	0.996	25.3	649
▶ 12 AWG				
32101203	3	0.425	10.8	140
32101204	4	0.465	11.8	173
32101205	5	0.539	13.7	220
32101207	7	0.630	16.0	288

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 10 AWG				
32101003	3	0.524	13.3	199
32101004	4	0.571	14.5	246
32101005	5	0.626	15.9	302
32101007	7	0.736	18.7	392
▶ 8 AWG				
32100804	4	0.736	18.7	429
32100805	5	0.811	20.6	530
▶ 6 AWG				
32100604	4	0.898	22.8	616
32100605	5	0.988	25.1	737
▶ 4 AWG				
32100404	4	1.098	27.9	972
32100405	5	1.217	30.9	1116
▶ 2 AWG				
32100204	4	1.268	32.2	1308
32100205	5	1.406	35.7	1592

Other dimensions and colors are possible on request.





TRAY CABLES



TR 600 Auto red

Type TC,
MTW and
WTTC

UV and oil resistant
90°C flexible tray cable and
machine-tool cable which
could be used in cable track



Marking for TR 600 Auto red 32111625:

SAB BRÖCKSKES · D-VIERSEN · TR 600 Auto red 16 AWG/25c 32111625 TFFN (UL) Type TC-ER 90°C 600V, Oil Resistant I, Sunlight Resistant, Direct Burial, FT4 (UL) WTTC 90°C 1000V (UL) MTW 16 AWG/25c 600V flexing AWM Style 21179 600V c(UL) Type CIC 90°C dry 600V FT1 FT2 FT4 CE

TR 600 red is a multi-conductor, 600 V, 90°C, UL recognized, UV and oil resistant flexible tray cable. 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 red 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 red 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 strands acc. to IEC 60228 class 6
Insulation:	special formulated PVC/Nylon
Color code:	red conductors with numbers; white-blue ground wire and green-yellow earth wire from 3 conductors
Stranding:	in layers
Jacket material:	special sunlight and oil resistant PVC
Jacket color:	black

Outstanding features:

- ▶ Flexible cable for cable tray use even where sunlight resistance and open wiring is required
- ▶ NFPA 79 for Industrial Machinery
- ▶ WTTC approval
- ▶ WTTC: UL Subject 2277
- ▶ TC: UL Standard 1277
- ▶ (UL)(cUL) listed

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTC: 1000 V	
Testing voltage:	4000 V	
Min. bending radius <i>fixed installation:</i>	< 12 mm = 3 x O.D. > 12 mm = 4 x O.D.	
<i>free movement:</i>	< 12 mm = 5 x O.D. > 12 mm = 6 x O.D.	
<i>continuous flexing:</i>	12 x O.D.	
Radiation resistance:	8 x 10 ⁷ cJ/kg	
Temperature:	UL-AWM: up to +105°C -25°C	(UL) / c(UL): up to +90°C
<i>static:</i>		
Burning characteristics:	(UL) FT4 and c(UL) FT1, FT2, FT4	
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 N/25	

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 18 AWG				
32111803	3	0.303	7.7	56
32111804	4	0.327	8.3	67
32111805	5	0.354	9.0	84
32111807	7	0.413	10.5	111
32111809	9	0.469	11.9	141
32111812	12	0.492	12.5	156
32111816	16	0.575	14.6	212
32111818	18	0.602	15.3	235
32111819	19	0.630	16.0	253
32111825	25	0.713	18.1	309
▶ 16 AWG				
32111603	3	0.327	8.3	71
32111604	4	0.354	9.0	87
32111605	5	0.386	9.8	101
32111607	7	0.453	11.5	142
32111608	8	0.484	12.3	163
32111609	9	0.516	13.1	181
32111612	12	0.571	14.5	218
32111616	16	0.630	16.0	276
32111618	18	0.661	16.8	304
32111619	19	0.693	17.6	329
32111625	25	0.783	19.9	406

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 14 AWG				
32111403	3	0.390	9.9	103
32111404	4	0.421	10.7	124
32111405	5	0.461	11.7	155
32111407	7	0.571	14.5	224
32111409	9	0.650	16.5	290
32111412	12	0.685	17.4	322
32111418	18	0.799	20.3	464
32111425	25	0.996	25.3	649
▶ 12 AWG				
32111203	3	0.425	10.8	140
32111204	4	0.465	11.8	173
32111205	5	0.539	13.7	220
32111207	7	0.630	16.0	288

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 10 AWG				
32111003	3	0.524	13.3	199
32111004	4	0.571	14.5	246
32111005	5	0.626	15.9	302
32111007	7	0.736	18.7	392
▶ 8 AWG				
32110804	4	0.736	18.7	429
32110805	5	0.811	20.6	530
▶ 6 AWG				
32110604	4	0.898	22.8	616
32110605	5	0.988	25.1	737
▶ 4 AWG				
32110404	4	1.098	27.9	972
32110405	5	1.217	30.9	1116
▶ 2 AWG				
32110204	4	1.268	32.2	1308
32110205	5	1.406	35.7	1592

Other dimensions and colors are possible on request.

E-mail: info@sabcable.com



Web site: www.sabcable.com

TRAY CABLES



**High-flex
NFPA 79 for
Industrial Machinery**

TR 600 Auto CY black

Type TC,
MTW and
WTTTC

Shielded UV and oil resistant 90°C
flexible tray cable and machine-tool cable
which could be used in cable track



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

Marking for TR 600 Auto CY black 32261612: SAB BRÖCKSKES · D-VIERSEN ·

TR 600 Auto CY black 16 AWG/12c 32261612 TFFN (UL) Type TC-ER 90°C 600V, Oil Resistant I, Sunlight Resistant, Direct Burial, FT4 (UL) WTTTC 90°C 1000V (UL) MTW 16 AWG/12c 600V flexing AWM Style 21179 600V c(UL) Type CIC SHIELDED 90°C dry 600V FT1 FT2 FT4 CE

TR 600 Auto CY is a multi-conductor, 600 V, 90°C, UL recognized, UV and oil resistant flexible tray cable. 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. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. TR 600 Auto CY 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 Auto CY 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 strands acc. to IEC 60228 class 6
Insulation:	special formulated PVC/Nylon
Color code:	black conductors with consecutive white numbers; green-yellow earth wire from 3 conductors. Also available with blue, red or other color conductors
Stranding:	in layers
Wrapping:	non-woven tape
Inner jacket:	special formulated PVC, color black
Screen:	tinned copper braiding
Jacket material:	special sunlight and oil resistant PVC
Jacket color:	black

Outstanding features:

- Flexible cable for cable tray use even where sunlight resistance and open wiring is required
- NFPA 79 for Industrial Machinery
- WTTTC approval
- WTTTC: UL Subject 2277
- TC: UL Standard 1277
- (UL)/(cUL) listed

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTTC: 1000 V	
Testing voltage:	4000 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.	
Radiation resistance:	8 x 10 ⁷ cJ/kg	
Temperature:	UL-AWM: up to +105°C	(UL) / c(UL): up to +90°C
<i>static:</i>	-25°C	
Burning characteristics:	(UL) FT4 and c(UL) FT1, FT2, FT4	
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 N/25	

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item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG				
32261803	3	0.323	8.2	78
32261804	4	0.386	9.8	91
32261805	5	0.413	10.5	107
32261807	7	0.480	12.2	151
32261809	9	0.563	14.3	199
32261812	12	0.594	15.1	227
32261816	16	0.681	17.3	303
32261818	18	0.709	18.0	331
32261819	19	0.736	18.7	346
32261825	25	0.819	20.8	414
▶ 16 AWG				
32261603	3	0.386	9.8	93
32261604	4	0.413	10.5	110
32261605	5	0.453	11.5	136
32261607	7	0.547	13.9	198
32261608	8	0.587	14.9	233
32261609	9	0.618	15.7	241
32261612	12	0.677	17.2	306
32261616	16	0.736	18.7	368

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 16 AWG				
32261618	18	0.768	19.5	405
32261619	19	0.799	20.2	432
32261625	25	0.933	23.7	557
▶ 14 AWG				
32261403	3	0.441	11.2	132
32261404	4	0.476	12.1	159
32261405	5	0.520	13.2	192
32261407	7	0.665	16.9	301
32261409	9	0.740	18.8	346
32261412	12	0.776	19.7	416
32261418	18	0.929	23.6	609
32261425	25	1.106	28.1	808
▶ 12 AWG				
32261203	3	0.492	12.5	182
32261204	4	0.531	13.5	216
32261205	5	0.614	15.6	286
32261207	7	0.736	18.7	384

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 10 AWG				
32261003	3	0.587	14.9	260
32261004	4	0.677	17.2	329
32261005	5	0.732	18.6	391
32261007	7	0.894	22.7	536
▶ 8 AWG				
32260804	4	0.886	22.5	581
32260805	5	0.961	24.4	702
▶ 6 AWG				
32260604	4	1.031	26.2	784
32260605	5	1.122	28.5	918
▶ 4 AWG				
32260404	4	1.232	31.3	1125
32260405	5	1.350	34.3	1333
▶ 2 AWG				
32260204	4	1.402	35.6	1538
32260205	5	1.539	39.1	1831

Other dimensions and colors are possible on request.

E-mail: info@sabcable.com



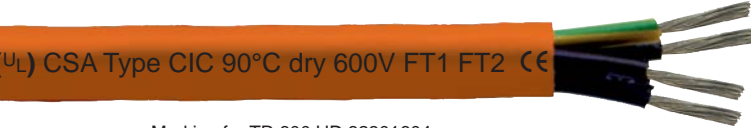
Web site: www.sabcable.com



TRAY CABLES



TR 600 HD Type WTTC Heavy Duty tray cable



Marking for TR 600 HD 32301604:

SAB BRÖCKSKES · D-VIERSEN · TR 600 HD TFFN

(UL) Type TC-ER 90°C 600V, Oil /III -40°C (UL) WTTC 90°C 1000V AWM Style 21237 105°C 600V (UL) CSA Type CIC 90°C dry 600V FT1 FT2 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:	tinned copper strands acc. to DIN VDE 0295 class 5 + IEC 60228 class 5 + HD 383 class 5 from 18 AWG - 12 AWG, from 10 AWG - 2 AWG class k in acc. to ASTM B 172
Insulation:	special formulated PVC/Nylon
Color code:	black conductors with consecutive white numbers and green-yellow earth wire
Stranding:	in layers
Jacket material:	TPE
Jacket color:	orange

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTC: 1000 V
Testing voltage:	4000 V
Min. bending radius:	7.5 x O.D.
Temperature:	UL-AWM: up to +105°C (UL) / c(UL): -40/+90°C
Burning characteristics:	(UL) Vertical Tray Flame + c(UL) FT1, FT2
Oil resistance I & II:	yes
Exposed Runs:	yes
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/25

Outstanding features:

- ▶ Heavy Duty Tray Cable and Control and Instrumentation Cable
- ▶ UL-AWM recognized for 105 °C
- ▶ Extreme oil resistant
- ▶ WTTC approval
- ▶ WTTC: UL Subject 2277
- ▶ TC: UL Standard 1277
- ▶ (UL)/(cUL) listed

item no.	AWG	nominal outer-ø		cable weight
		inch	mm	≈ lbs/100ft
▶ 32301804	18/4c	0.331	8.4	64
▶ 32301604	16/4c	0.358	9.1	80
▶ 32301404	14/4c	0.394	10.0	109
▶ 32301204	12/4c	0.402	11.2	144
▶ 32301004	10/4c	0.563	14.3	229
▶ 32300804	8/4c	0.724	18.4	353
▶ 32300604	6/4c	0.902	22.9	454
▶ 32300404	4/4c	1.079	27.4	810
▶ 32300204	2/4c	1.248	31.7	1160

Other dimensions and colors are possible on request.

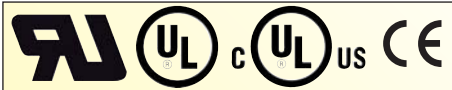
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TRAY CABLES



TR 600 C HD Type WTTTC Shielded Heavy Duty tray cable



WTTTC 90°C 1000V AWM Style 21237 105°C 6

Marking for TR 600 C HD 32401604:

SAB BRÖCKSKES · D-VIERSEN · TR 600 C HD TFFN (UL) Type TC-ER 90°C 600V, Oil I/II -40°C

(UL) WTTTC 90°C 1000V AWM Style 21237 105°C 600V c(UL) CSA Type CIC SHIELDED 90°C dry 600V FT1 FT2 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:	tinned copper strands acc. to DIN VDE 0295 class 5 + IEC 60228 class 5 + HD 383 class 5 from 18 AWG - 12 AWG, from 10 AWG - 2 AWG class k in acc. to ASTM B 172
Insulation:	special formulated PVC/Nylon
Color code:	black conductors with consecutive white numbers and green-yellow earth wire
Stranding:	in layers
Inner jacket:	PVC, color black
Screen:	tinned copper braiding
Jacket material:	TPE
Jacket color:	orange

Outstanding features:

- Heavy Duty Tray Cable and Control and Instrumentation Cable
- UL-AWM recognized for 105 °C
- Extreme oil resistant
- WTTTC approval
- WTTTC: UL Subject 2277
- TC: UL Standard 1277
- (UL)/(cUL) listed

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTTC: 1000 V
Testing voltage:	4000 V
Min. bending radius	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
Temperature:	UL-AWM: up to +105°C (UL) / c(UL): -40/+90°C
Burning characteristics:	(UL) Vertical Tray Flame + c(UL) FT1, FT2
Oil resistance I & II:	yes
Exposed Runs:	yes
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/25

item no.	AWG	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
➤ 32401804	18/4c	0.386	9.8	88
➤ 32401604	16/4c	0.413	10.5	107
➤ 32401404	14/4c	0.457	11.6	149
➤ 32401204	12/4c	0.504	12.8	189
➤ 32401004	10/4c	0.665	16.9	310
➤ 32400804	8/4c	0.870	22.1	497
➤ 32400604	6/4c	1.031	26.2	710
➤ 32400404	4/4c	1.209	30.7	1005
➤ 32400204	2/4c	1.378	35.0	1382

Other dimensions and colors are possible on request.

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TRAY CABLES



TR 600 T black Type TC, MTW, WTTC and Submersible Pump Cable

UV and oil resistant 90°C flexible tray cable and machine-tool cable



L) CIC FT4 Outdoor AWM II A/B 90C 600V ROHS CE

Marking for TR 600 T black 92221850: SAB · TR 600 T black 92221850
E135319 (UL) Type TC-ER 50C 18 AWG PVC/Nylon 75C Wet or 90C Dry Sun Res Oil Res I + II Dir Bur 600V or MTW Flexing
or DP-1 or WTTC 1000V Class I Div II 90C Dry -40C or Submersible Pump Cable or c(UL) CIC FT4 Outdoor AWM II A/B 90C 600V ROHS CE

TR 600 T black is a multi-conductor, 600 V, 90°C, UL approved, UV and oil resistant flexible tray cable. 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 T black 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 T black 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 strands acc. to IEC 60228 class 5 and UL standard 758 table 5.1 + UL 1581 table 20.1
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 & tear resistant pressure extruded copolymer
Jacket color:	black

Outstanding features:

- ▶ Flexible cable for cable tray use even where sunlight resistance and open wiring is required
- ▶ NFPA 79 for Industrial Machinery
- ▶ WTTC approval
- ▶ WTTC: UL Subject 2277
- ▶ TC: UL Standard 1277
- ▶ Submersible pump rated

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTC: 1000 V
Testing voltage:	4000 V
Min. bending radius <i>fixed installation:</i>	< 12 mm = 3 x O.D. > 12 mm = 4 x O.D.
<i>free movement:</i>	< 12 mm = 5 x O.D. > 12 mm = 6 x O.D.
Temperature:	UL-AWM: 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:	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 N/25

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mt
▶ 18 AWG				
92221803	3	0.284	7.2	47
92221804	4	0.306	7.8	57
92221805	5	0.318	8.1	66
92221807	7	0.355	9.0	85
92221809	9	0.393	10.0	104
92221812	12	0.438	11.1	131
92221818	18	0.545	13.8	201
92221825	25	0.619	15.7	264
92221850	50	0.861	21.9	515
▶ 16 AWG				
92221603	3	0.306	7.8	60
92221604	4	0.330	8.4	74
92221605	5	0.344	8.7	86
92221607	7	0.385	9.8	113
92221608	8	0.418	10.6	127
92221609	9	0.428	10.9	139

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mt
▶ 16 AWG				
92221612	12	0.508	12.9	193
92221616	16	0.567	14.4	246
92221618	18	0.594	15.1	272
92221625	25	0.676	16.9	360
92221641	41	0.869	22.1	594
92221650	50	0.942	23.9	707
▶ 14 AWG				
92221403	3	0.341	8.6	82
92221404	4	0.369	9.4	102
92221405	5	0.385	9.8	128
92221407	7	0.433	11.0	159
92221409	9	0.483	12.3	199
92221412	12	0.572	14.5	274
92221418	18	0.672	17.1	389
92221425	25	0.808	20.5	555

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mt
▶ 12 AWG				
92221204	4	0.429	10.9	143
92221205	5	0.450	11.4	170
92221207	7	0.508	12.9	228
▶ 10 AWG				
92221004	4	0.480	12.2	205
92221005	5	0.502	12.8	236
92221007	7	0.630	16.0	353
▶ 8 AWG				
92220804	4	0.704	17.9	355
92220805	5	0.739	18.8	426
▶ 6 AWG				
92220603	3	0.742	18.9	389
92220604	4	0.812	20.6	498
92220605	5	0.855	21.7	602
▶ 4 AWG				
92220403	3	0.933	23.7	616
92220404	4	1.022	25.9	788
▶ 2 AWG				
92220203	3	1.082	27.5	881
92220204	4	1.189	30.2	1137

Other dimensions and colors are possible on request.

E-mail: info@sabcable.com



Web site: www.sabcable.com

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Servo VFD Type MTW and WTTC Variable frequency drive - tray cable and machine-tool cable



Marking for Servo VFD 08520404: SAB BRÖCKSKES · D-VIERSEN ·

Servo VFD 4 AWG/4c 08520404 THHN (UL) Type TC-ER 90°C 600V, Oil I, Sunlight Resistant, Direct Burial, FT4 (UL) WTTC 90°C 1000V (UL) MTW 4 AWG/4c 600V AWM Style 21179 1000V c(UL) Type CIC 4 AWG/4c 90°C dry 600V FT1, FT2, FT4 CSA AWM I/II A/B 90°C 1000V FT1 FT2 CE

Servo VFD is a flexible motor supply cable designed for automated servo systems. 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). Its unique flame retardant jacket makes the VFD rated for 600V suitable for tray cable application and also as Control and Instrumentation Cable, UL AWM recognized and CSA approved for 1000 Volt. The VFD is double insulated and contains an outer PVC jacket. The VFD can be used to connect alternating current variable frequency drives to alternating current variable frequency motors and is approved for up to 50' of open wiring to make installations less cumbersome. This motor supply cable is also suitable for installation in wet or dry locations and is UV resistant. The Servo VFD can be used in indoor or outdoor applications and is rated for direct burial. Servo VFD 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:	tinned copper strands acc. to DIN VDE 0295 class 5 + IEC 60228 class 5 + HD 383 class 5 from 18 AWG - 12 AWG, from 10 AWG - 2 AWG class k in acc. to ASTM B 172
Insulation:	special formulated PVC/Nylon
Color code:	black conductors with consecutive white numbers and green-yellow earth wire
Stranding:	in layers
Jacket material:	special sunlight and oil resistant PVC
Jacket color:	black

Outstanding features:

- Interconnection of variable frequency drive control device to variable frequency motors
- NFPA 79 for Industrial Machinery
- WTTC approval
- WTTC: UL Subject 2277
- TC: UL Standard 1277
- (UL)/(cUL) listed

Technical data:

Voltage:	(UL) / c(UL): 600 V UL-AWM/CSA-AWM: 1000 V (UL) WTTC: 1000 V
Testing voltage U:	7500 V
Min. bending radius:	12 x O.D.
Temperature:	UL-AWM: up to +105°C static: -25°C (UL) / c(UL) / CSA-AWM: up to +90°C
Burning characteristics:	(UL) / c(UL) FT4, c(UL) / CSA-AWM FT1, FT2
Oil resistant:	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 N/25

item no.	AWG	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
➤ 08521804	18/4c	0.331	8.4	67
➤ 08521604	16/4c	0.358	9.1	83
➤ 08521404	14/4c	0.394	10.0	113
➤ 08521204	12/4c	0.441	11.2	147
➤ 08521004	10/4c	0.543	13.8	223
➤ 08520804	8/4c	0.724	18.4	360
➤ 08520604	6/4c	0.902	22.9	558
➤ 08520404	4/4c	1.079	27.4	825
➤ 08520204	2/4c	1.252	31.8	1177

Other dimensions and colors are possible on request.

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TRAY CABLES



Servo VFD Combo DS Type MTW and WTTC

Variable frequency drive - tray cable and machine-tool cable with overall copper screen



CSA AWM I/II A/B 90°C 1000V FT1 FT2 CE



Marking for Servo VFD Combo DS 08530444: SAB BRÖCKSKES · D-VIERSEN · Servo VFD Combo DS 4 AWG/4c + 16 AWG/2pr 08530444 THHN + TFFN (UL) Type TC-ER 90°C 600V, Oil I, Sunlight Resistant, Direct Burial, FT4 (UL) WTTC 90°C 1000V (UL) MTW 600V flexing AWM Style 21179 1000V c(UL) Type CIC SHIELDED 4 AWG/4c + 16 AWG/2pr 90°C dry 600V FT1, FT2, FT4 CSA AWM I/II A/B 90°C 1000V FT1 FT2 CE

Servo VFD Combo DS is a flexible shielded motor supply cable designed for automated servo systems. 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). Its unique flame retardant jacket makes the Servo VFD Combo DS rated for 600V suitable for tray cable application and also as Control and Instrumentation Cable, UL AWM recognized and CSA approved for 1000 Volt. The Servo VFD Combo DS has an outer PVC jacket and both a foil and a braid shield which helps with problems related to voltage spikes, harmonics, and power distortions frequently associated with variable frequency drives. The Servo VFD Combo DS can be used to connect alternating current variable frequency drives to alternating current variable frequency motors and is recommended to make installations less cumbersome. This motor supply cable is also suitable for installation in wet or dry locations and is UV resistant. The Servo VFD Combo DS can be used in indoor or outdoor applications and is rated for direct burial. The combination of the braid and foil shield makes the VFD DS 100% shielded from excessive interference. Servo VFD Combo DS 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:	tinned copper strands acc. to DIN VDE 0295 class 5 + IEC 60228 class 5 + HD 383 class 5 from 18 AWG - 12 AWG, from 10 AWG - 2 AWG class k in acc. to ASTM B 172
Insulation:	special formulated PVC/Nylon
Color code:	black conductors with consecutive white numbers and a green-yellow earth wire
Stranding:	signal conductors in pairs
Screen:	pairwise with alu foil, tinned copper drain wire AWG 26 and braided with tinned copper wires
Wrapping:	pairwise with PETP foil
Stranding:	screened signal pair(s) and power conductors in layers
Wrapping:	non-woven tape
Screen :	double shield, alu foil and tinned copper braiding
Jacket material:	special sunlight and oil resistant PVC
Jacket color:	black

Technical data:

Voltage:	(UL) / c(UL): 600 V UL-AWM/CSA-AWM: 1000 V (UL) WTTC: 1000 V
Testing voltage U:	conductor/conductor 7500 V conductor/screen 3000 V
Min. bending radius:	12 x O.D.
Temperature:	UL-AWM: up to +105°C static: -25°C (UL) / c(UL) / CSA-AWM: up to +90°C
Burning characteristics:	(UL) / c(UL) FT4, c(UL) / CSA-AWM FT1, FT2
Oil resistant:	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 N/25

Outstanding features:

- Interconnection of variable frequency drive control device to variable frequency motors
- NFPA 79 for Industrial Machinery
- WTTC approval
- WTTC: UL Subject 2277
- TC: UL Standard 1277
- (UL)/(cUL) listed

item no.	dimensions	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
➤ 08531614	16 AWG/4c + 18 AWG/1pr	0.469	11.9	140
➤ 08531604	16 AWG/4c + 14 AWG/1pr	0.516	13.1	174
➤ 08531464	14 AWG/4c + 18 AWG/2pr	0.693	17.6	262
➤ 08531414	14 AWG/4c + 18 AWG/1pr	0.504	12.8	170
➤ 08531404	14 AWG/4c + 14 AWG/1pr	0.555	14.1	207
➤ 08531264	12 AWG/4c + 18 AWG/2pr	0.724	18.4	300
➤ 08531214	12 AWG/4c + 18 AWG/1pr	0.563	14.3	224
➤ 08531204	12 AWG/4c + 14 AWG/1pr	0.610	15.5	269
➤ 08531064	10 AWG/4c + 18 AWG/2pr	0.756	19.2	371
➤ 08531004	10 AWG/4c + 14 AWG/1pr	0.689	17.5	344
➤ 08530864	8 AWG/4c + 18 AWG/2pr	0.937	23.8	541
➤ 08530804	8 AWG/4c + 14 AWG/1pr	0.878	22.3	520
➤ 08530644	6 AWG/4c + 16 AWG/2pr	1.043	26.5	733
➤ 08530604	6 AWG/4c + 14 AWG/1pr	1.024	26.0	705
➤ 08530444	4 AWG/4c + 16 AWG/2pr	1.217	30.9	1015
➤ 08530404	4 AWG/4c + 14 AWG/1pr	1.157	29.4	982

Other dimensions and colors are possible on request.

E-mail: info@sabcable.com

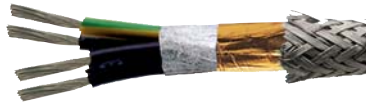


Web site: www.sabcable.com

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VFD Lean TR Type MTW and WTTTC Variable frequency drive - shielded tray cable and machine-tool cable



FT4 CSA AWM I/II A/B 90°C 1000V FT1 FT2

Marking for VFD Lean TR 08610404: SAB BRÖCKSKES · D-VIERSEN · VFD Lean TR 4 AWG/4c 08610404 THHN (UL) Type TC-ER 90°C 600V, Oil I, Sunlight Resistant, Direct Burial, FT4 (UL) WTTTC 90°C 1000V (UL) MTW 4 AWG/4c 600V AWM Style 21179 1000V c(UL) Type CIC SHIELED 4 AWG/4c 90°C dry 600V FT1, FT2, FT4 CSA AWM I/II A/B 90°C 1000V FT1 FT2 CE

VFD Lean TR is a flexible shielded motor supply cable designed for automated servo systems. 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). Its unique flame retardant jacket makes the VFD Lean TR rated for 600V suitable for tray cable application and also as Control and Instrumentation Cable, UL and CSA AWM approved for 1000 Volt. The VFD Lean TR has an outer PVC jacket and both a foil and a braid shield which helps with problems related to voltage spikes, harmonics, and power distortions frequently associated with variable frequency drives. The VFD Lean TR can be used to connect alternating current variable frequency drives to alternating current variable frequency motors and is recommended to make installations less cumbersome. This motor supply cable is also suitable for installation in wet or dry locations and is UV resistant. The VFD Lean TR can be used in indoor or outdoor applications and is rated for direct burial. The combination of the braid and foil shield makes the VFD Lean TR 100% shielded from excessive interference. VFD Lean TR 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:	tinned copper strands acc. to DIN VDE 0295 class 5 + IEC 60228 class 5 + HD 383 class 5 from 18 AWG - 12 AWG, from 10 AWG - 2 AWG class k in acc. to ASTM B 172
Insulation:	special formulated PVC/Nylon
Color code:	black conductors with consecutive white numbers and green-yellow earth wire
Stranding:	in layers
Wrapping:	non-woven tape
Screen:	double shield, alu foil and tinned copper braiding
Jacket material:	special sunlight and oil resistant PVC
Jacket color:	black

Outstanding features:

- Interconnection of variable frequency drive control device to variable frequency motors
- NFPA 79 for Industrial Machinery
- WTTTC approval
- WTTTC: UL Subject 2277
- TC: UL Standard 1277
- (UL)/(cUL) listed

Technical data:

Voltage:	(UL) / c(UL): 600 V UL-AWM/CSA-AWM: 1000 V (UL) WTTTC: 1000 V
Testing voltage U:	conductor/conductor 7500 V conductor/screen 3000 V
Min. bending radius:	12 x O.D.
Temperature:	UL-AWM: up to +105°C static: -25°C (UL) / c(UL) / CSA-AWM: up to +90°C
Burning characteristics:	(UL) / c(UL) FT4, c(UL) / CSA-AWM FT1, FT2
Oil resistant:	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 N/25

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item no.	AWG	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
➤ 08611804	18/4c	0.354	9.0	75
➤ 08611604	16/4c	0.382	9.7	91
➤ 08611404	14/4c	0.417	10.6	120
➤ 08611204	12/4c	0.472	12.0	177
➤ 08611004	10/4c	0.602	15.3	278
➤ 08610804	8/4c	0.764	19.4	430
➤ 08610604	6/4c	0.941	23.9	633
➤ 08610404	4/4c	1.118	28.4	916
➤ 08610204	2/4c	1.287	32.7	1283

Other dimensions and colors are possible on request.





TRAY CABLES



VFD symmetrical Lean TR

Type MTW and WTTC

Variable frequency drive shielded tray cable and machine-tool cable with three tinned ground wires



FT4 CSA AWM I/II A/B 90°C 1000V FT1 FT2 CE



Marking for VFD symmetrical Lean TR 08641403: SAB BRÖCKSKES · D-VIERSEN · VFD symmetrical Lean TR 14 AWG/3c 08641403 THHN (UL) Type TC-ER 90°C 600V, Oil I, Sunlight Resistant, Direct Burial, FT4 (UL) WTTC 90°C 1000V (UL) MTW 14 AWG/3c 600V flexing AWM Style 21179 1000V c(UL) Type CIC SHIELDED 14 AWG/3c 90°C dry 600V FT1, FT2, FT4 CSA AWM I/II A/B 90°C 1000V FT1 FT2 CE

VFD symmetrical Lean TR is a flexible shielded motor supply cable designed for automated servo systems. The VFD symmetrical Lean TR contains a symmetrical arrangement of three phase leads and three tinned copper (PE) earth wires. The symmetrical placement of three phase leads and three earth wires insures proper earthing paths and minimizes the risk of motor failure from common-mode current. 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). Its unique flame retardant jacket makes the VFD symmetrical Lean TR rated for 600V suitable for tray cable application and also as Control and Instrumentation Cable, UL and CSA AWM approved for 1000 Volt. The VFD symmetrical Lean TR has an outer PVC jacket and both a foil and a braid shield which helps with problems related to voltage spikes, harmonics, and power distortions frequently associated with variable frequency drives. The VFD symmetrical Lean TR can be used to connect alternating current variable frequency drives to alternating current variable frequency motors and is approved for up to 50' of open wiring to make installations less cumbersome. This motor supply cable is also suitable for installation in wet or dry locations and is UV resistant. The VFD symmetrical Lean TR can be used in indoor or outdoor applications and is rated for direct burial. The combination of the braid and foil shield makes the VFD symmetrical Lean TR 100% shielded from excessive interference. VFD symmetrical Lean TR 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.

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Construction:

Conductor:	tinned copper strands acc. to DIN VDE 0295 class 5 + IEC 60228 class 5 + HD 383 class 5 from 18 AWG - 12 AWG, from 10 AWG - 2 AWG class k in acc. to ASTM B 172
Insulation:	special formulated PVC/Nylon
Color code:	black conductors with consecutive white numbers
Stranding:	in layers with three tinned ground wires in the fillers
Screen:	double shield, alu foil and tinned copper braiding
Jacket material:	special sunlight and oil resistant PVC
Jacket color:	black

Outstanding features:

- Interconnection of variable frequency drive control device to variable frequency motors
- NFPA 79 for Industrial Machinery
- WTTC approval
- WTTC: UL Subject 2277
- TC: UL Standard 1277
- Three tinned ground wires for optimal performance

Technical data:

Voltage:	(UL) / c(UL): 600 V UL-AWM/CSA-AWM: 1000 V (UL) WTTC: 1000 V
Testing voltage U:	conductor/conductor 7500 V conductor/screen 3000 V
Min. bending radius:	12 x O.D.
Temperature:	UL-AWM: up to +105°C static: -25°C (UL) / c(UL) / CSA-AWM: up to +90°C
Burning characteristics:	(UL) / c(UL) FT4, c(UL) / CSA-AWM FT1, FT2
Oil resistant:	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 N/25

item no.	AWG	ground wire n x AWG	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
➤ 08641603	16/3c	3 x 20	0.350	8.9	87
➤ 08641403	14/3c	3 x 18	0.390	9.9	118
➤ 08641203	12/3c	3 x 16	0.445	11.3	169
➤ 08641003	10/3c	3 x 16	0.567	14.4	260
➤ 08640803	8/3c	3 x 14	0.701	17.8	385
➤ 08640603	6/3c	3 x 12	0.866	22.0	555
➤ 08640403	4/3c	3 x 12	1.024	26.0	801
➤ 08640203	2/3c	3 x 6	1.185	30.1	1292
➤ 08640103	1/3c	3 x 6	1.350	34.3	1761

Other dimensions and colors are possible on request.

E-mail: info@sabcable.com



Web site: www.sabcable.com

VFD symmetrical XL Type WTTTC Variable frequency drive shielded tray cable with three insulated ground wires



SHIELDED 14 AWG/3c 90°C dry 600V FT1, FT2

Marking for VFD symmetrical XL: SAB BRÖCKSKES · D-VIERSEN · VFD symmetrical XL 8 AWG/3c THHN (UL) Type TC-ER 90°C 600V, Oil I, Sunlight Resistant, Direct Burial, FT4 (UL) WTTTC 90°C 1000V c(UL) Type CIC SHIELDED 8 AWG/3c 90°C dry 600V FT1, FT2, FT4

VFD symmetrical XL is a flexible shielded motor supply cable designed for automated servo systems. The VFD symmetrical XL contains a symmetrical arrangement of three phase leads and three tinned copper (PE) earth wires. The symmetrical placement of three phase leads and three earth wires insures proper earthing paths and minimizes the risk of motor failure from common-mode current. This cable can be used without conduit (exposed runs). Its unique flame retardant jacket makes the VFD symmetrical XL rated for 600V suitable for tray cable application and also as Control and Instrumentation Cable, UL approved for 1000 Volt. The VFD symmetrical XL has an outer jacket and both a foil outer jacket and aluminum foil shield which helps with problems related to voltage spikes, harmonics, and power distortions frequently associated with variable frequency drives. The VFD symmetrical XL can be used to connect alternating current variable frequency drives to alternating current variable frequency motors and is approved for up to 50' of open wiring to make installations less cumbersome. This motor supply cable is also suitable for installation in wet or dry locations and is UV resistant. The VFD symmetrical XL can be used in indoor or outdoor applications and is rated for direct burial. The aluminum foil shield makes the VFD symmetrical XL 100% shielded from excessive interference. VFD symmetrical XL 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.

Construction:

Conductor:	annealed copper strands acc. to ASTM B-3 or ASTM B-33 and B-172 or B-174. Also available with bare or tinned copper strands
Insulation:	special formulated PVC/Nylon
Color code:	black conductors with three green-yellow earth wires
Stranding:	in layers
Screen:	aluminum/polyester shield with a tinned copper drain wire
Jacket material:	special sunlight and oil resistant PVC with a high strength ripcord under the jacket
Jacket color:	black

Technical data:

Voltage:	c(UL)us: 600 V
Testing voltage U:	conductor/conductor 7500 V conductor/screen 3000 V
Temperature:	c(UL)us: up to +90°C static: -25°C
Burning characteristics:	c(UL)us Type CIC FT4
Oil resistant:	yes
Sunlight resistance:	yes
Exposed Runs:	yes
Direct Burial:	yes
Drain Wire:	yes
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/25

Outstanding features:

- Interconnection of variable frequency drive control device to variable frequency motors
- WTTTC approval
- WTTTC: UL Subject 2277
- TC: UL Standard 1277
- three green-yellow earth wires and a tinned copper drain wire for optimal performance

item no.	AWG MCM	earth wire n x AWG	nominal outer-ø inch	mm	Min. bending radius inch	cable weight ≈ lbs/mft
▶ 08650803	8 / 3c	3 x 14	0.700	17.8	4.2	401
▶ 08650603	6 / 3c	3 x 12	0.785	19.9	4.7	554
▶ 08650403	4 / 3c	3 x 12	0.975	24.8	5.9	809
▶ 08650203	2 / 3c	3 x 10	1.105	28.1	6.6	1147
▶ 08650103	1 / 3c	3 x 8	1.235	31.4	7.4	1471
▶ 08651003	1/0 / 3c	3 x 8	1.315	33.4	7.9	1719
▶ 08652003	2/0 / 3c	3 x 8	1.420	26.1	8.5	2032
▶ 08653003	3/0 / 3c	3 x 6	1.530	28.9	9.2	2521
▶ 08654003	4/0 / 3c	3 x 6	1.760	44.7	10.6	3139
▶ 08652503	250 / 3c	3 x 6	1.915	48.6	11.5	3596
▶ 08653103	300 / 3c	3 x 4	2.010	51.1	12.1	4296
▶ 08653503	350 / 3c	3 x 4	2.130	54.1	12.8	4873
▶ 08654103	400 / 3c	3 x 4	1.195	30.4	7.2	5347

Other dimensions and colors are possible on request.



TRAY CABLES



VFD Dual TR Type MTW and WTTC Variable frequency drive - double insulated tray cable and machine-tool cable



Marking for VFD Dual TR 08620404: SAB BRÖCKSKES · D-VIERSEN · VFD Dual TR 4 AWG/4c 08620404
 THHN (UL) Type TC-ER 90°C 600V, Oil I, Sunlight Resistant, Direct Burial, FT4 (UL) WTTC 90°C 1000V (UL) MTW 4 AWG/4c 600V
 AWM Style 21179 1000V (UL) Type CIC SHIELDED 4 AWG/4c 90°C dry 600V FT1, FT2, FT4 CSA AWM I/II A/B 90°C 1000V FT1 FT2 CE

VFD Dual TR is a flexible shielded motor supply cable designed for automated servo systems. 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). Its unique flame retardant jacket makes the VFD Dual TR rated for 600V suitable for tray cable application and also as Control and Instrumentation Cable, UL AWM recognized and CSA approved for 1000 Volt. The VFD Dual TR is double insulated, has an inner PVC jacket as well as an outer PVC jacket and both a foil and a braid shield which helps with problems related to voltage spikes, harmonics, and power distortions frequently associated with variable frequency drives. The VFD Dual TR can be used to connect alternating current variable frequency drives to alternating current variable frequency motors and is approved for up to 50' of open wiring to make installations less cumbersome. This motor supply cable is also suitable for installation in wet or dry locations and is UV resistant. The VFD Dual TR can be used in indoor or outdoor applications and is rated for direct burial. The combination of the braid and foil shield makes the VFD Dual TR 100% shielded from excessive interference. VFD Dual TR 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:	tinned copper strands acc. to DIN VDE 0295 class 5 + IEC 60228 class 5 + HD 383 class 5 from 18 AWG - 12 AWG, from 10 AWG - 2 AWG class k in acc. to ASTM B 172
Insulation:	special formulated PVC/Nylon
Color code:	black conductors with consecutive white numbers and green-yellow earth wire
Stranding:	in layers
Inner jacket:	special formulated PVC, color black
Screen :	double shield, alu foil and tinned copper braiding
Jacket material:	special sunlight and oil resistant PVC
Jacket color:	black

Outstanding features:

- Interconnection of variable frequency drive control device to variable frequency motors
- NFPA 79 for Industrial Machinery
- WTTC approval
- WTTC: UL Subject 2277
- TC: UL Standard 1277
- (UL)/(cUL) listed

Technical data:

Voltage:	(UL) / c(UL): 600 V UL-AWM/CSA-AWM: 1000 V (UL) WTTC: 1000 V
Testing voltage U:	conductor/conductor 7500 V conductor/screen 3000 V
Min. bending radius:	12 x O.D.
Temperature:	UL-AWM: up to +105°C (UL) / c(UL) / CSA-AWM: up to +90°C <i>static:</i> -25°C
Burning characteristics:	(UL) / c(UL) FT4, c(UL) / CSA-AWM FT1, FT2
Oil resistant:	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 N/25

item no.	AWG	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
➤ 08621804	18/4c	0.390	9.9	95
➤ 08621604	16/4c	0.417	10.6	114
➤ 08621404	14/4c	0.461	11.7	155
➤ 08621204	12/4c	0.508	12.9	196
➤ 08621004	10/4c	0.677	17.2	330
➤ 08620804	8/4c	0.874	22.2	519
➤ 08620604	6/4c	1.035	26.3	731
➤ 08620404	4/4c	1.213	30.8	1027
➤ 08620204	2/4c	1.382	35.1	1408

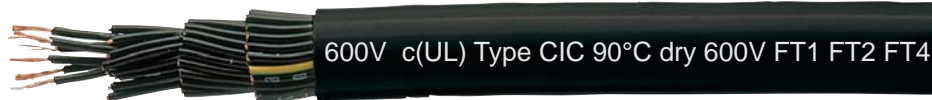
Other dimensions and colors are possible on request.



TRAY CABLES

**NFPA 79
for Industrial
Machinery**

TR 249 Type TC and STOOW UV and oil resistant 90°C flexible tray cable - flexible Cord



Marking for TR 249 08491637: SAB BRÖCKSKES · D-VIERSEN · TR 249 16 AWG/37c 08491637 TFF (UL) Type TC-ER 60°C 600V, Oil Resistant I, Sunlight Resistant, Direct Burial, FT4 (UL) STOOW 90°C 600V Oil Resistant I AWM Style 21179 600V c(UL) Type CIC 90°C dry 600V FT1 FT2 FT4 CE

TR 249 is a multi-conductor, 600 V, 90°C, UL recognized, UV and oil resistant flexible tray cable. Also 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 the VDE test 0281 part 1 and HD 21.1 oil test providing the best oil resistance available for a PVC jacket. TR 249 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 249 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). The STOOW listed cable could be used in NFPA 79 Machinery Area.

Construction:

Conductor:	bare copper strands acc. to IEC 60228 class 5 and UL standard 758 table 5.1 + UL 1581 table 20.1
Insulation:	special formulated PVC
Color code:	acc. to color code US 2 see page N/23
Stranding:	in layers
Jacket material:	special sunlight and oil resistant PVC
Jacket color:	black

Outstanding features:

- Flexible cable for cable tray use even where sunlight resistance is required
- NFPA 79 for Industrial Machinery (UL)/(cUL) listed

Technical data:

Voltage:	(UL) / c(UL): 600 V	
Testing voltage:	3000 V	
Min. bending radius		
<i>fixed installation:</i>	< 12 mm = 3 x O.D. > 12 mm = 4 x O.D.	
<i>free movement:</i>	< 12 mm = 5 x O.D. > 12 mm = 6 x O.D.	
Radiation resistance:	8 x 10 ⁷ cJ/kg	
Temperature:	UL-AWM: up to +105°C	c(UL): up to +90°C
Burning characteristics:	(UL) FT4 and c(UL) FT1, FT2, FT4	
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 N/25	

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item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
➤ 18 AWG				
08491806	6	0.512	13.0	155
08491807	7	0.512	13.0	175
08491808	8	0.575	14.6	202
➤ 16 AWG				
08491603	3	0.394	10.0	97
➤ 12 AWG				
08491203	3	0.622	15.8	228
08491204	4	0.670	17.0	272

E-mail: info@sabcable.com



Web site: www.sabcable.com

TRAY CABLES



D 331 PLTC Type PLTC UV resistant 90°C Power Limited Circuit Cable



Marking for D 331 PLTC 33311224:

SAB BRÖCKSKES · D-VIERSEN · D 331 PLTC 12 AWG/24c (UL) Type PLTC 90°C 300V CE

D 331 PLTC is a lead-free low voltage control and signal cable for industrial applications. This UL listed unshielded, multiconductor cable can be used in measuring and process control equipment. D 331 PLTC is also permitted to be used in hazardous (classified) locations class I, Division 2 per NEC article 501 (B).

Construction:

Conductor:	bare copper strands acc. to IEC 60228 class 5 and UL standard 758 table 5.1 + UL 1581 table 20.1
Insulation:	special formulated PVC
Color code:	one white conductor with number 1; black conductors with consecutive white numbers
Stranding:	in layers
Jacket material:	special sunlight resistant PVC
Jacket color:	black

Technical data:

Voltage:	300 V
Testing voltage:	1500 V
Min. bending radius	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	7,5 x O.D.
Temperature (UL):	up to +90°C
Burning characteristics:	(UL) FT4
Sunlight resistance:	yes
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/25

Outstanding features:

- ▶ Flexible cable for cable tray use even where sunlight resistance is required
- ▶ (UL) listed

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
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▶ 22 AWG

33312206	6	0.244	6.2	38
33312208	8	0.276	7.0	48
33312225	25	0.445	11.3	123

▶ 20 AWG

33312002	2	0.205	5.2	28
33312003	3	0.213	5.4	30
33312004	4	0.228	5.8	36
33312005	5	0.248	6.3	42
33312006	6	0.268	6.8	49
33312012	12	0.346	8.8	80
33312018	18	0.425	10.8	120

▶ 18 AWG

33311803	3	0.256	6.5	45
33311804	4	0.283	7.2	57
33311834	34	0.705	17.9	354

▶ 16 AWG

33311602	2	0.217	5.5	39
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Other dimensions and colors are possible on request.

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TRAY CABLES

SABIX® D 331 PLTC Type PLTC UV resistant 75°C halogen-free Power Limited Circuit Cable



Marking for SABIX® D 331 PLTC 83311224:

SAB BRÖCKSKES · D-VIERSEN · SABIX® D 331 PLTC 12 AWG/24c (UL) Type PLTC 75°C 300V CE

SABIX® D 331 PLTC is a halogen-free, lead-free low voltage control and signal cable for industrial applications. This UL listed unshielded, multiconductor cable can be used in measuring and process control equipment. SABIX® D 331 PLTC is also permitted to be used in hazardous (classified) locations class I, Division 2 per NEC article 501 (B).

Construction:

Conductor:	bare copper strands acc. to IEC 60228 class 5 and UL standard 758 table 5.1 + UL 1581 table 20.1
Insulation:	SABIX®
Color code:	one white conductor with number 1; black conductors with consecutive white numbers
Stranding:	in layers
Jacket material:	SABIX®
Jacket color:	black

Technical data:

Voltage:	300 V
Testing voltage:	1500 V
Min. bending radius	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	7,5 x O.D.
Temperature (UL):	up to +75°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	(UL) FT4
Sunlight resistance:	yes
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/25

Outstanding features:

- Flexible cable for cable tray use even where sunlight resistance is required
- (UL) listed

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
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▶ 20 AWG

83312002	2	0.205	5.2	29
83312003	3	0.213	5.4	34
83312004	4	0.228	5.8	40
83312005	5	0.248	6.3	47
83312006	6	0.268	6.8	54
83312012	12	0.346	8.8	91
83312018	18	0.425	10.8	136

Other dimensions and colors are possible on request.

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