

TRAY & VFD CABLES



TR 600 S Type TC-ER, MTW, WTTC and CSA approved

UV and oil resistant
90°C flexible tray cable

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



Marking for TR 600 S 93331641:

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

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

Construction:

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

Outstanding features:

- flexible stranding for easy installation
- oil resistant meeting UL Oil Res I and II
- NFPA 79 for Industrial Machinery
- UL TC-ER (exposed runs)
- CSA approved for TC
- Submersible pump (14 AWG ≥, 3 thru 7 cond.)
- WTTC: Wind turbine tray cable
- 90°C Wet rated
- UL TC-ER-JP (joist pull)¹

Wet rated 90°C Technical data:

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

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
➤ 18 AWG				
93331802*	2	0.286	7.3	45
93331803	3	0.300	7.6	55
93331804	4	0.324	8.2	67
93331805	5	0.349	8.9	79
93331807	7	0.376	9.6	100
93331809	9	0.432	11.0	125
93331812	12	0.480	12.2	157
93331818	18	0.596	15.1	244
93331825	25	0.686	17.4	319
93331850	50	0.940	23.9	622
➤ 16 AWG				
93331602*	2	0.306	7.8	52
93331603	3	0.321	8.2	70
93331604	4	0.348	8.8	81
93331605	5	0.376	9.6	96
93331607	7	0.412	10.5	126
93331608	8	0.440	11.2	137
93331609	9	0.473	12.0	152
93331612	12	0.527	13.4	196
93331616	16	0.613	15.6	273
93331618	18	0.646	16.4	300

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

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

Other dimensions and colors are possible on request.

*2 conductor cables are rated UL TC only

¹ UL TC-ER-JP (joist pull) added Sept. 1, 2021

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TRAY & VFD CABLES

TR 600 S Large AWG

Type TC-ER, MTW, WTTC
and CSA approved

UV and oil resistant
90°C flexible tray cable



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

Marking for TR 600 S 93331641:

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

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

Technical data:

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

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item no.	AWG/c	nominal outer-ø		cable weight ≈ lbs/mft
		inch 10%	mm 10%	
▶ 93330104	1/4c	1.401	35.6	1588
▶ 93331104	1/0-4c	1.458	37.0	1971
▶ 93332104	2/0-4c	1.588	40.3	2301
▶ 93333104	3/0-4c	1.733	44.0	2946
▶ 93334104	4/0-4c	1.841	46.8	3459
▶ 93332504	250/4c	2.138	54.3	4538
▶ 93333504	350/4c	2.335	59.3	5591
▶ 93335004	500/4c	2.815	71.5	8065

Other dimensions and colors are possible on request

* UL TC-ER-JP (joist pull) added Sept. 1, 2021

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