

TRAY & VFD CABLES

NEW!
+ 105 °C

TR 850 S Type TC-ER UV and oil resistant
and STOOW 90°C flexible tray cable -
flexible Cord



CSA STOOW 105C 600V FT1 or AWM I/II A/B 105C 1000V FT4

Marking for TR 850 S 8501205: SAB NORTH AMERICA 12AWG/5C (UL) TYPE TC-ER 90C DRY 75C WET 600V SUN RES DIR BUR OIL RES I/II OR TYPE STOOW 105C 600V OR WTTC 1000V OR C(UL) CIC-TC PVC 600V FT4 --- CSA STOOW 105C 600V FT1 or AWM I/II A/B 105C 1000V FT4 CE

TR 850 S is a multi-conductor, 600V, 90°C, UL TC-ER, UV and oil resistant flexible tray cable. It is also UL and CSA Type STOOW flexible cord for use as specified in the National Electrical Code (NFPA 70) and in the National Fire Protection Association Electrical Standard for Industrial Machinery (NFPA 79). Flexible cords shall be used for connection of portable lamps, portable and mobile signs or appliances, wiring of cranes and hoists. Our specially designed PVC jacket passes the stringent requirements of UL Oil Res 1 & 2 oil tests providing the best oil resistance available for a PVC jacket. TR 850 S tray cables are designed for use in all electrical equipment in dry damp and wet conditions. Recommended applications are machine tools, control systems, assembly lines, CNC machining centers, grinding machines, bottling equipment, data processing equipment and connections between control panels and machines. TR 850 S is permitted in hazardous (classified) locations Class I, Division 2 per NEC Article 501.4 (B), UL Type TC is in acc. to UL standard 1277 and NEC Article 336 (392, 501). The STOOW listed cable could be used in NFPA 79 Machinery Area.

Construction:

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

Outstanding features:

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

Technical data:

Voltage:	(UL) TC / STOOW / CSA STOOW: 600 V	(UL) WTTC / CSA AWM: 1000 V
Testing voltage:	2000 V	
Min. bending radius <i>fixed installation:</i>	< 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/CSA STOOW: up to +105°C	(UL) / c(UL): up to +90°C
Burning characteristics:	(UL) FT4 and c(UL) FT1, FT2, FT4	
Oil resistance I & II:	yes	
Sunlight resistance:	yes	
Exposed Runs:	yes	
Direct Burial:	yes	
Machinery Area:	yes	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/25	

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 18 AWG				
8501803	3	0.363	9.2	77
8501804	4	0.394	10.0	95
8501805	5	0.462	11.7	133
8501807	7	0.495	12.6	157
▶ 16 AWG				
8501603	3	0.392	10.0	96
8501604	4	0.422	10.7	111
8501605	5	0.497	12.6	159
8501607	7	0.535	13.6	192
▶ 14 AWG				
8501403	3	0.541	13.7	170
8501404	4	0.584	14.8	208
8501405	5	0.656	16.7	264
8501407	7	0.708	18.0	324
▶ 12 AWG				
8501203	3	0.614	15.6	232
8501204	4	0.640	16.3	329
8501205	5	0.716	18.2	329
8501207	7	0.773	19.6	418

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 10 AWG				
8501003	3	0.696	17.7	307
8501004	4	0.742	18.8	378
8501005	5	0.819	20.8	445
8501007	7	0.850	21.6	544
▶ 8 AWG				
8500804	4	0.990	25.1	623
▶ 6 AWG				
8500604	4	1.120	28.4	828
▶ 4 AWG				
8500404	4	1.277	32.4	1174
▶ 2 AWG				
8500204	4	1.442	36.6	1578

Other dimensions and colors are possible on request.

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