

TRAY CABLES



TR 600 CY black Type TC, MTW and W TTC

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) W TTC 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 (NFP A 70) and in the National Fire Protection Association Electrical Standard for Industrial Machinery (NFP A 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 NFP A 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
- ▶ NFP A 79 for Industrial Machinery
- ▶ New improved with W TTC
- ▶ W TTC: UL Subject 2277
- ▶ TC: UL Standard 1277
- ▶ (UL)(cUL) listed

Technical data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) W TTC: 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	

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item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mt	item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mt	item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mt
▶ 18 AWG					▶ 16 AWG					▶ 12 AWG				
32231803	3	0.358	9.1	79	32231618	18	0.764	19.4	400	32231205	5	0.591	15.0	269
32231804	4	0.382	9.7	92	32231619	19	0.764	19.4	409	32231207	7	0.669	17.0	352
32231805	5	0.409	10.4	107	32231625	25	0.929	23.6	546	▶ 10 AWG				
32231807	7	0.449	11.4	136	32231627	27	0.929	23.6	570	32231003	3	0.587	14.9	262
32231809	9	0.559	14.2	188	32231637	37	1.047	26.6	748	32231004	4	0.661	16.8	333
32231812	12	0.591	15.0	226	32231641	41	1.114	28.3	816	32231005	5	0.717	18.2	393
32231816	16	0.677	17.2	298	32231650	50	1.197	30.4	946	32231007	7	0.772	19.6	491
32231818	18	0.705	17.9	325	32231661	61	1.264	32.1	1100	▶ 8 AWG				
32231819	19	0.705	17.9	331	▶ 14 AWG					32230804	4	0.815	20.7	498
32231825	25	0.815	20.7	411	32231403	3	0.417	10.6	121	32230805	5	0.929	23.6	627
32231827	27	0.815	20.7	425	32231404	4	0.457	11.6	154	▶ 6 AWG				
32231837	37	0.937	23.8	573	32231405	5	0.492	12.5	179	32230604	4	1.028	26.1	777
32231850	50	1.098	27.9	758	32231407	7	0.559	14.2	234	32230605	5	1.118	28.4	917
▶ 16 AWG					32231409	9	0.709	18.0	339	▶ 4 AWG				
32231603	3	0.382	9.7	95	32231412	12	0.736	18.7	389	32230404	4	1.209	30.7	1111
32231604	4	0.409	10.4	111	32231418	18	0.886	22.5	566	32230405	5	1.323	33.6	1327
32231605	5	0.449	11.4	138	32231425	25	1.055	26.8	760	▶ 2 AWG				
32231607	7	0.484	12.3	167	▶ 12 AWG					32230204	4	1.370	34.8	1519
32231608	8	0.583	14.8	222	32231203	3	0.476	12.1	172	32230205	5	1.504	38.2	1823
32231609	9	0.614	15.6	247	32231204	4	0.512	13.0	206	Other dimensions and colors are possible on request.				
32231612	12	0.673	17.1	302										
32231616	16	0.732	18.6	364										

E-mail: info@sabcable.com



Web site: www.sabcable.com