

Tray Cables

TR 600 CY black Type TC, MTW and WTTC

UV and oil resistant, flexible Tray Cable and Machine-Tool Cable
with black cores and overall copper screen

WTTC
approval

NFPA 79
for industrial machinery



Marking example:

SAB BRÜCKSKES · 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) 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

Construction:

Conductor: bare copper strands with reference to
IEC 60228, VDE 0295 class 5 +
UL standard 758 table 5.1 +
UL 1581 table 20.1

Insulation: special formulated PVC/Nylon

Colour code: black cores with
consecutive white numbers,
green-yellow earth wire from 3 cores

Stranding: in layers

Inner sheath: special formulated PVC

Screen: tinned copper braiding

Sheath material: special sunlight and oil resistant PVC

Sheath colour: 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 recognized, (UL)/c(UL) listed

Technical data:

Voltage
UL-AWM / (UL) / c(UL): 600 V
(UL) WTTC: 1000 V

Testing voltage: AWG 18-10 = 6000 V
AWG 8-2 = 7500 V

Min. bending radius:
fixed laying: 5 x d
flexible application: 10 x d

Radiation resistance: 8 x 10⁷ cJ/kg

Temperature: UL-AWM: (UL) / c(UL):
up to +105 °C up to +90 °C
fixed laying: -25 °C

Burning characteristics: (UL) FT4 + 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 chapter N „Technical data“

Possible on request:

also available with blue, red or other colour cores

item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
32231803	3 x 18	0,21	9,1	52,6	118
32231804	4 x 18	0,21	9,7	64,7	137
32231805	5 x 18	0,21	10,4	77,1	159
32231807	7 x 18	0,21	11,4	115,0	203
32231809	9 x 18	0,21	14,2	146,2	280
32231812	12 x 18	0,21	15,0	201,0	337
32231816	16 x 18	0,21	17,2	263,4	444
32231818	18 x 18	0,21	17,9	283,5	483
32231819	19 x 18	0,21	17,9	293,1	492
32231825	25 x 18	0,21	20,7	366,1	611
32231827	27 x 18	0,21	20,7	385,3	633
32231837	37 x 18	0,21	23,8	496,5	853
32231850	50 x 18	0,21	27,9	654,8	1128
32231603	3 x 16	0,26	9,7	69,5	141
32231604	4 x 16	0,26	10,4	86,7	165
32231605	5 x 16	0,26	11,4	119,8	205
32231607	7 x 16	0,26	12,3	155,2	249
32231608	8 x 16	0,26	14,8	200,8	330
32231609	9 x 16	0,26	15,6	226,7	368
32231612	12 x 16	0,26	17,1	282,5	450
32231616	16 x 16	0,26	18,6	342,0	541
32231618	18 x 16	0,26	19,4	383,2	595
32231619	19 x 16	0,26	19,4	397,6	608
32231625	25 x 16	0,26	23,6	500,9	812
32231627	27 x 16	0,26	23,6	529,7	848
32231637	37 x 16	0,26	26,6	704,3	1113
32231641	41 x 16	0,26	28,3	766,3	1214

item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
32231650	50 x 16	0,26	30,4	918,1	1408
32231661	61 x 16	0,26	32,1	1038,0	1637
32231403	3 x 14	0,26	10,6	101,2	180
32231404	4 x 14	0,26	11,6	149,9	229
32231405	5 x 14	0,26	12,5	174,5	266
32231407	7 x 14	0,26	14,2	227,8	348
32231409	9 x 14	0,26	18,0	326,8	504
32231412	12 x 14	0,26	18,7	399,7	579
32231418	18 x 14	0,26	22,5	570,8	842
32231425	25 x 14	0,26	26,8	772,0	1131
32231203	3 x 12	0,31	12,1	169,4	256
32231204	4 x 12	0,31	13,0	213,2	306
32231205	5 x 12	0,31	15,0	277,8	400
32231207	7 x 12	0,31	17,0	367,4	524
32231003	3 x 10	0,31	14,9	258,5	390
32231004	4 x 10	0,31	16,8	328,8	495
32231005	5 x 10	0,31	18,2	399,1	585
32231007	7 x 10	0,31	19,6	527,5	730
32230804	4 x 8	0,41	20,7	464,0	741
32230805	5 x 8	0,41	23,6	563,3	933
32230604	4 x 6	0,41	26,1	711,7	1156
32230605	5 x 6	0,41	28,4	852,9	1365
32230404	4 x 4	0,41	30,7	1044,0	1653
32230405	5 x 4	0,41	33,6	1277,3	1974
32230204	4 x 2	0,41	34,8	1532,4	2261
32230205	5 x 2	0,41	38,2	1879,0	2713

Other dimensions and colours are possible on request.