

# Tray Cables

## TR 600 Auto red Type TC, MTW and WTTC

UV and oil resistant, flexible Tray Cable and Machine-Tool Cable with red cores for cable tracks

WTTC  
approval

NFPA 79  
for industrial machinery

high-flex

179 600V c(UL) Type CIC 90°C dry 600V FT1 FT2 FT4 CE



Marking example:

SAB BRÖCKSKES · D-VIERSEN · TR 600 Auto red 16 AWG/12c 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/12c 600V flexing AWM Style 21179 600V c(UL) Type CIC 90°C dry 600V FT1 FT2 FT4 CE

### Construction:

Conductor:	bare copper strands with reference to IEC 60228, VDE 0295 class 6
Insulation:	special formulated PVC/Nylon
Colour code:	red cores with numbers, white ground wire and green-yellow earth wire from 3 cores
Stranding:	in layers
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	600 V
UL-AWM / (UL) / c(UL):	1000 V
(UL) WTTC:	
Testing voltage:	AWG 18-10 = 6000 V AWG 8-2 = 7500 V
Min. bending radius:	
fixed laying:	< 12 mm = 3 x d > 12 mm = 4 x d
flexible application:	< 12 mm = 5 x d > 12 mm = 6 x d
continuously flexible:	10 x d
Radiation resistance:	8 x 10 <sup>7</sup> cJ/kg
Temperature:	UL-AWM: up to +105 °C (UL) / c(UL): 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“

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
32111803	3 x 18	0,16	7,7	28,8	84
32111804	4 x 18	0,16	8,3	38,4	100
32111805	5 x 18	0,16	9,0	48,0	125
32111807	7 x 18	0,16	10,5	67,2	165
32111809	9 x 18	0,16	11,9	86,4	210
32111812	12 x 18	0,16	12,5	115,2	232
32111816	16 x 18	0,16	14,6	153,6	316
32111818	18 x 18	0,16	15,3	172,8	350
32111819	19 x 18	0,16	16,0	182,4	376
32111825	25 x 18	0,16	18,1	240,0	460
32111603	3 x 16	0,16	8,3	43,2	105
32111604	4 x 16	0,16	9,0	57,6	129
32111605	5 x 16	0,16	9,8	72,0	150
32111607	7 x 16	0,16	11,5	100,8	211
32111608	8 x 16	0,16	12,3	115,2	243

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
32111609	9 x 16	0,16	13,1	129,6	270
32111612	12 x 16	0,16	14,5	172,8	324
32111616	16 x 16	0,16	16,0	230,4	410
32111618	18 x 16	0,16	16,8	259,2	453
32111619	19 x 16	0,16	17,6	273,6	490
32111625	25 x 16	0,16	19,9	360,0	604
32111403	3 x 14	0,16	9,9	72,0	153
32111404	4 x 14	0,16	10,7	96,0	184
32111405	5 x 14	0,16	11,7	120,0	230
32111407	7 x 14	0,16	14,5	168,0	334
32111409	9 x 14	0,16	16,5	216,0	431
32111412	12 x 14	0,16	17,4	288,0	479
32111418	18 x 14	0,16	20,3	432,0	690
32111425	25 x 14	0,16	25,3	600,0	966
32111007	7 x 10	0,21	18,7	369,6	583

Other dimensions and colours are possible on request.