

# CONTINUOUS FLEX CABLES



## S 965 MTW Type MTW Very flexible continuous flex control cable and machine-tool cable for small bending radius with red conductors



(UL) Type MTW 600V AWM Style 2587 90°C 600V CE

SAB SAB BRÖCKSKES · D-VIERSEN · 37270715 7x1,5mm<sup>2</sup> S 965 MTW 16 AWG/7c 37271607 (UL) Type MTW 600V AWM Style 2587 90°C 600V CE

S 965 MTW is a very flexible multi-conductor 90°C, 600 V cable designed for continuous flex applications. Also machine-tool cable 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). The S 965 MTW is designed for use on cable tracks, pick and place units, automated handling equipment, machine tools, conveyor systems and other continuous flexing applications.

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### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
<b>Insulation:</b>	special formulated PVC
<b>Color code:</b>	red conductors with consecutive numbers; green-yellow earth wire from 3 conductors
<b>Stranding:</b>	specially adjusted layering with non-woven tape over each layer
<b>Jacket material:</b>	special oil resistant PVC
<b>Jacket color:</b>	black

### Outstanding features:

- ▶ very good flexibility
- ▶ reinforced outer jacket
- ▶ oil resistant
- ▶ NFPA 79 for Industrial Machinery

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE:</b> U <sub>0</sub> /U 300/500 V <b>UL(UL):</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b> <i>continuous flexing:</i>	7.5 x O.D.
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b> <i>static:</i> <i>flexing:</i>	<b>DIN VDE</b> <b>UL(UL):</b> up to +90°C -40/+70°C +5/+70°C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1
<b>Oil resistance:</b>	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
<b>▶ 20 AWG (≈ 28/34) • 0.50 mm<sup>2</sup></b>				
37272002	2	0.307	7.8	46
37272003	3	0.319	8.1	54
37272004	4	0.346	8.8	65
37272005	5	0.378	9.6	76
37272007	7	0.437	11.1	108
37272012	12	0.555	14.1	162
37272018	18	0.642	16.3	226
37272025	25	0.780	19.8	304
37272034	34	0.894	22.7	418
37272050	50	1.051	26.7	576
37272061	61	1.157	29.4	707
<b>▶ 19 AWG (≈ 42/34) • 0.75 mm<sup>2</sup></b>				
37271902	2	0.323	8.2	52
37271903	3	0.339	8.6	61
37271904	4	0.366	9.3	73
37271905	5	0.398	10.1	89
37271907	7	0.465	11.8	122
37271912	12	0.587	14.9	183
37271918	18	0.681	17.3	258
37271925	25	0.835	21.2	354
37271934	34	0.949	24.1	477
37271950	50	1.126	28.6	670
37271961	61	1.240	31.5	822
<b>▶ 18 AWG (≈ 56/34) • 1.00 mm<sup>2</sup></b>				
37271802	2	0.331	8.4	56
37271803	3	0.346	8.8	67
37271804	4	0.374	9.5	81
37271805	5	0.409	10.4	99
37271807	7	0.480	12.2	138

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
<b>▶ 18 AWG (≈ 56/34) • 1.00 mm<sup>2</sup></b>				
37271812	12	0.606	15.4	207
37271818	18	0.709	18.0	298
37271825	25	0.878	22.3	419
37271834	34	0.976	24.8	542
37271850	50	1.165	29.6	772
37271861	61	1.283	32.6	946
<b>▶ 16 AWG (≈ 84/34) • 1.50 mm<sup>2</sup></b>				
37271602	2	0.354	9.0	67
37271603	3	0.370	9.4	82
37271604	4	0.402	10.2	99
37271605	5	0.441	11.2	122
37271607	7	0.528	13.4	177
37271612	12	0.654	16.6	259
37271618	18	0.776	19.7	382
37271625	25	0.953	24.2	526
37271634	34	1.071	27.2	698
37271650	50	1.280	32.5	999
37271661	61	1.409	35.8	1223
<b>▶ 14 AWG (≈ 140/34) • 2.50 mm<sup>2</sup></b>				
37271402	2	0.402	10.2	89
37271403	3	0.421	10.7	112
37271404	4	0.461	11.7	137
37271405	5	0.508	12.9	171
37271407	7	0.622	15.8	254
37271412	12	0.768	19.5	375
37271418	18	0.921	23.4	563
37271425	25	1.118	28.4	761

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
<b>▶ 12 AWG (≈ 224/34) • 4.00 mm<sup>2</sup></b>				
37271203	3	0.476	12.1	153
37271204	4	0.516	13.1	188
37271205	5	0.594	15.1	247
37271207	7	0.705	17.9	353
<b>▶ 10 AWG (≈ 186/32) • 6.00 mm<sup>2</sup></b>				
37271003	3	0.563	14.3	215
37271004	4	0.610	15.5	266
37271005	5	0.673	17.1	331
37271007	7	0.815	20.7	485
<b>▶ 8 AWG (≈ 320/32) • 10.00 mm<sup>2</sup></b>				
37270803	3	0.709	18.0	334
37270804	4	0.783	19.9	431
37270805	5	0.890	22.6	564
<b>▶ 6 AWG (≈ 504/32) • 16.00 mm<sup>2</sup></b>				
37270603	3	0.913	23.2	533
37270604	4	1.004	25.5	681
37270605	5	1.122	28.5	876
<b>▶ 4 AWG (≈ 760/32) • 25.00 mm<sup>2</sup></b>				
37270404	4	1.134	28.8	934
37270405	5	1.272	32.3	1203
<b>▶ 2 AWG (≈ 1083/32) • 35.00 mm<sup>2</sup></b>				
37270204	4	1.295	32.9	1263
37270205	5	1.453	36.9	1624
<b>▶ 1 AWG (≈ 703/28) • 50.00 mm<sup>2</sup></b>				
37270104	4	1.654	42.0	1905

Other dimensions and colors are possible on request.

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