

NFPA 79
for Industrial
Machinery

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

Marking for S 965 MTW 37270715:

SAB SAB BRÖCKSKES · D-VIERSEN · 37270715 7x1,5mm² 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:

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

Outstanding features:

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

Technical data:

Nominal voltage:	DIN VDE: U ₀ /U 300/500 V UL(UL): 600 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
Min. bending radius continuous flexing:	7.5 x O.D.
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range static flexing:	DIN VDE UL(UL): up to +90°C -40/+70°C +5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1
Oil resistance:	very good - TMS acc. to DIN VDE 0281 part 1 + HD 21.1
Absence of harmful substances:	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/25

item no.	no. of conductors incl. ground	nominal outer-ø inch	outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	outer-ø mm	cable weight ≈ lbs/mft
▶ 20 AWG (33/34) • 0.50 mm²					▶ 18 AWG (56/34) • 1.00 mm²					▶ 12 AWG (224/34) • 4.00 mm²				
37272002	2	0.307	7.8	46	37271812	12	0.606	15.4	207	37271203	3	0.476	12.1	153
37272003	3	0.319	8.1	54	37271818	18	0.709	18.0	298	37271204	4	0.516	13.1	188
37272004	4	0.346	8.8	65	37271825	25	0.878	22.3	419	37271205	5	0.594	15.1	247
37272005	5	0.378	9.6	76	37271834	34	0.976	24.8	542	37271207	7	0.705	17.9	353
37272007	7	0.437	11.1	108	37271850	50	1.165	29.6	772	▶ 10 AWG (192/32) • 6.00 mm²				
37272012	12	0.555	14.1	162	37271861	61	1.283	32.6	946	37271003	3	0.563	14.3	215
37272018	18	0.642	16.3	226	▶ 16 AWG (84/34) • 1.50 mm²					37271004	4	0.610	15.5	266
37272025	25	0.780	19.8	304	37271602	2	0.354	9.0	67	37271005	5	0.673	17.1	331
37272034	34	0.894	22.7	418	37271603	3	0.370	9.4	82	37271007	7	0.815	20.7	485
37272050	50	1.051	26.7	576	37271604	4	0.402	10.2	99	▶ 8 AWG (320/32) • 10.00 mm²				
37272061	61	1.157	29.4	707	37271605	5	0.441	11.2	122	37270803	3	0.709	18.0	334
▶ 19 AWG (42/34) • 0.75 mm²					37271607	7	0.528	13.4	177	37270804	4	0.783	19.9	431
37271902	2	0.323	8.2	52	37271612	12	0.654	16.6	259	37270805	5	0.890	22.6	564
37271903	3	0.339	8.6	61	37271618	18	0.776	19.7	382	▶ 6 AWG (512/32) • 16.00 mm²				
37271904	4	0.366	9.3	73	37271625	25	0.953	24.2	526	37270603	3	0.913	23.2	533
37271905	5	0.398	10.1	89	37271634	34	1.071	27.2	698	37270604	4	1.004	25.5	681
37271907	7	0.465	11.8	122	37271650	50	1.280	32.5	999	37270605	5	1.122	28.5	876
37271912	12	0.587	14.9	183	37271661	61	1.409	35.8	1223	▶ 4 AWG (798/32) • 25.00 mm²				
37271918	18	0.681	17.3	258	▶ 14 AWG (140/34) • 2.50 mm²					37270404	4	1.134	28.8	934
37271925	25	0.835	21.2	354	37271402	2	0.402	10.2	89	37270405	5	1.272	32.3	1203
37271934	34	0.949	24.1	477	37271403	3	0.421	10.7	112	▶ 2 AWG (1102/32) • 35.00 mm²				
37271950	50	1.126	28.6	670	37271404	4	0.461	11.7	137	37270204	4	1.295	32.9	1263
37271961	61	1.240	31.5	822	37271405	5	0.508	12.9	171	37270205	5	1.453	36.9	1624
▶ 18 AWG (56/34) • 1.00 mm²					37271407	7	0.622	15.8	254	▶ 1 AWG (703/28) • 50.00 mm²				
37271802	2	0.331	8.4	56	37271412	12	0.768	19.5	375	37270104	4	1.654	42.0	1905
37271803	3	0.346	8.8	67	37271418	18	0.921	23.4	563	Other dimensions and colors are possible on request.				
37271804	4	0.374	9.5	81	37271425	25	1.118	28.4	761					
37271805	5	0.409	10.4	99										
37271807	7	0.480	12.2	138										

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