



# SOOW

## 600 V

UL 62 and CAN/CSA C22.2 No 49

Portable cord and control cable, 105°C, Integral version. Extra Hard Usage

### APPLICATIONS

- Industrial and processing equipment, cranes and hoists, track systems, tools, construction equipment, motors and associated machinery, garage portable lights, battery charger and equipment exposed to oils, solvents, flame, moisture and other electrical equipment
- Other industrial applications

### CONSTRUCTION

<b>Conductors</b>	Flexible stranded bare copper in accordance with ASTM B3 and UL 62								
<b>Separator</b>	Paper tape as needed								
<b>Insulation</b>	EPR compound Class 19 complies with Table 8 of UL 62								
<b>Color code</b>	ICEA S-58-679, Method 1, Tab.1 <sup>1)</sup> non NEC applications <sup>2)</sup> 2/C Black, White 3/C Black, White, Green 4/C Black, White, Red, Green 5/C Black, White, Red, Green, Orange								
<b>Multicore cables</b>	Numb. of core	Colour	Tracer	Numb. of core	Colour	Tracer	Numb. of core	Colour	Tracer
	1	Black	–	8	Red	Black	15	Blue	White
	2	White	–	9	Green	Black	16	Black	Red
	3	Red	–	10	Orange	Black	17	White	Red
	4	Green	–	11	Blue	Black	18	Orange	Red
	5	Orange	–	12	Black	White	19	Blue	Red
	6	Blue	–	13	Red	White	20	Red	Green
	7	White	Black	14	Green	White	21	Orange	Green

1) For more than 21 conductors the color sequence is repeated as necessary

2) For method 1 color sequence to comply with NEC applications



# SOOW

Cabling	Insulated conductors are assembled round together without rubber fillers. (Integral Filled Version)
Separator	Polyester tape under jacket above 5 cores cables
Outer jacket	CPE compound Class 1.12 105°C complies with Table 11 of UL 62
Color of outer jacket	Yellow or black

## Features

Excellent flexibility, resistance to oil, solvents, ozone, weather, sunlight and water	UV, sunlight, ozone, oil resistant
Flame test meets FT2	Ink jet printed for easy identification
Maximum temperature: +105°C	

## Approvals

UL:	E123366
CSA:	1534535 (LL 103932)
Standard length cable packing	250, 500 or 1000 ft on drums. Other forms of packing and delivery are available on request

Part number	Size	Noof conductor	Conductor strand	Nominal insulation thickness		Nominal jacket thickness		Nominal overall diameter		Weight	Ampacity at 30°C in air
	AWG	N	N/AWG	Inches	mm	Inches	mm	Inches	mm	lbs/1000ft	A
SOOW18-2	18	2	16 / 30	0.030	0.76	0.060	1.52	0.34	8.6	63	10
SOOW18-3		3	16 / 30	0.030	0.76	0.060	1.52	0.36	9.1	74	10
SOOW18-4		4	16 / 30	0.030	0.76	0.060	1.52	0.39	9.8	87	7
SOOW18-5		5	16 / 30	0.030	0.76	0.080	2.03	0.46	11.7	123	5.6
SOOW18-6		6	16 / 30	0.030	0.76	0.080	2.03	0.48	12.3	131	5.6
SOOW18-7		7	16 / 30	0.030	0.76	0.080	2.03	0.48	12.3	134	5.6
SOOW18-8		8	16 / 30	0.030	0.76	0.080	2.03	0.52	13.1	151	4.9
SOOW18-10		10	16 / 30	0.030	0.76	0.080	2.03	0.59	15.0	180	4.9

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Part number	Size	Noof conductor	Conductor strand	Nominal insulation thickness		Nominal jacket thickness		Nominal overall diameter		Weight	Ampacity at 30°C in air	
	AWG	N	N/AWG	Inches	mm	Inches	mm	Inches	mm	lbs/1000ft	A	
SOOW18-12	18	12	16 / 30	0.030	0.76	0.080	2.03	0.61	15.4	202	3.5	
SOOW18-14		14	16 / 30	0.030	0.76	0.095	2.41	0.66	16.9	246	3.5	
SOOW18-16		16	16 / 30	0.030	0.76	0.095	2.41	0.69	17.6	274	3.5	
SOOW18-18		18	16 / 30	0.030	0.76	0.095	2.41	0.73	18.5	303	3.5	
SOOW18-20		20	16 / 30	0.030	0.76	0.095	2.41	0.76	19.3	333	3.5	
SOOW18-22		22	16 / 30	0.030	0.76	0.095	2.41	0.83	21.2	357	3.2	
SOOW18-24		24	16 / 30	0.030	0.76	0.095	2.41	0.83	21.2	376	3.2	
SOOW18-26		26	16 / 30	0.030	0.76	0.095	2.41	0.85	21.7	401	3.2	
SOOW18-27		27	16 / 30	0.030	0.76	0.095	2.41	0.85	21.9	409	3.2	
SOOW18-30		30	16 / 30	0.030	0.76	0.110	2.79	0.91	23.0	470	3.2	
SOOW18-36		36	16 / 30	0.030	0.76	0.110	2.79	0.97	24.7	551	2.8	
SOOW18-39		39	16 / 30	0.030	0.76	0.110	2.79	1.04	26.3	604	2.8	
SOOW18-44		44	16 / 30	0.030	0.76	0.110	2.79	1.08	27.4	647	2.5	
SOOW18-52		52	16 / 30	0.030	0.76	0.110	2.79	1.12	28.5	735	2.5	
SOOW18-60		60	16 / 30	0.030	0.76	0.125	3.18	1.22	30.9	870	2.5	
SOOW16-2		16	2	26 / 30	0.030	0.76	0.060	1.52	0.37	9.3	76	13
SOOW16-3			3	26 / 30	0.030	0.76	0.060	1.52	0.39	10.1	90	13
SOOW16-4			4	26 / 30	0.030	0.76	0.060	1.52	0.42	10.6	107	10
SOOW16-5	5		26 / 30	0.030	0.76	0.080	2.03	0.49	12.5	149	8	
SOOW16-6	6		26 / 30	0.030	0.76	0.080	2.03	0.53	13.4	165	8	
SOOW16-7	7		26 / 30	0.030	0.76	0.080	2.03	0.53	13.4	170	8	
SOOW16-8	8		26 / 30	0.030	0.76	0.080	2.03	0.56	14.3	193	7	
SOOW16-9	9		26 / 30	0.030	0.76	0.095	2.41	0.65	16.5	238	7	
SOOW16-10	10		26 / 30	0.030	0.76	0.095	2.41	0.68	17.2	251	7	
SOOW16-12	12		26 / 30	0.030	0.76	0.095	2.41	0.70	17.7	282	5	

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Part number	Size	Noof conductor	Conductor strand		Nominal insulation thickness		Nominal jacket thickness		Nominal overall diameter		Weight	Ampacity at 30°C in air
	AWG	N	N/AWG		Inches	mm	Inches	mm	Inches	mm	lbs/1000ft	A
SOOW16-14	16	14	26	/ 30	0.030	0.76	0.095	2.41	0.73	18.5	316	5
SOOW16-16		16	26	/ 30	0.030	0.76	0.095	2.41	0.76	19.4	354	5
SOOW16-18		18	26	/ 30	0.030	0.76	0.095	2.41	0.80	20.3	393	5
SOOW16-20		20	26	/ 30	0.030	0.76	0.095	2.41	0.84	21.2	434	5
SOOW16-22		22	26	/ 30	0.030	0.76	0.095	2.41	0.92	23.4	464	4.5
SOOW16-24		24	26	/ 30	0.030	0.76	0.110	2.79	0.95	24.1	520	4.5
SOOW16-27		27	26	/ 30	0.030	0.76	0.110	2.79	0.97	24.6	566	4.5
SOOW16-30		30	26	/ 30	0.030	0.76	0.110	2.79	1.00	25.4	615	4.5
SOOW16-36		36	26	/ 30	0.030	0.76	0.110	2.79	1.07	27.3	724	4
SOOW16-37		37	26	/ 30	0.030	0.76	0.110	2.79	1.07	27.3	730	4
SOOW16-39		39	26	/ 30	0.030	0.76	0.110	2.79	1.15	29.1	795	4
SOOW16-40		40	26	/ 30	0.030	0.76	0.125	3.18	1.18	29.9	843	4
SOOW16-44		44	26	/ 30	0.030	0.76	0.125	3.18	1.23	31.1	891	3.5
SOOW16-52		52	26	/ 30	0.030	0.76	0.125	3.18	1.28	32.4	1016	3.5
SOOW16-60		60	26	/ 30	0.030	0.76	0.125	3.18	1.35	34.2	1154	3.5
SOOW14-2		14	2	41	/ 30	0.045	1.14	0.080	2.03	0.50	12.6	137
SOOW14-3	3		41	/ 30	0.045	1.14	0.080	2.03	0.52	13.3	161	18
SOOW14-4	4		41	/ 30	0.045	1.14	0.080	2.03	0.57	14.4	192	15
SOOW14-5	5		41	/ 30	0.045	1.14	0.095	2.41	0.64	16.4	251	12
SOOW14-6	6		41	/ 30	0.045	1.14	0.095	2.41	0.69	17.6	277	12
SOOW14-7	7		41	/ 30	0.045	1.14	0.095	2.41	0.69	17.6	285	12
SOOW14-8	8		41	/ 30	0.045	1.14	0.095	2.41	0.74	18.9	324	10.5
SOOW14-9	9		41	/ 30	0.045	1.14	0.095	2.41	0.86	21.9	367	10.5
SOOW14-10	10		41	/ 30	0.045	1.14	0.095	2.41	0.86	21.9	388	10.5
SOOW14-12	12		41	/ 30	0.045	1.14	0.095	2.41	0.89	22.5	441	7.5

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	AWG	N	N/AWG		Inches	mm	Inches	mm	Inches	mm	lbs/1000ft	A
SOOW14-14	14	14	41	/ 30	0.045	1.14	0.095	2.41	0.93	23.6	498	7.5
SOOW14-16		16	41	/ 30	0.045	1.14	0.095	2.41	0.98	24.8	563	7.5
SOOW14-18		18	41	/ 30	0.045	1.14	0.110	2.79	1.06	26.9	660	7.5
SOOW14-20		20	41	/ 30	0.045	1.14	0.110	2.79	1.11	28.1	730	7.5
SOOW14-24		24	41	/ 30	0.045	1.14	0.110	2.79	1.22	31.1	828	6.8
SOOW14-30		30	41	/ 30	0.045	1.14	0.125	3.18	1.32	33.6	1027	6.8
SOOW14-36		36	41	/ 30	0.045	1.14	0.125	3.18	1.42	36.2	1215	6.0
SOOW14-37		37	41	/ 30	0.045	1.14	0.125	3.18	1.42	36.2	1224	6.0
SOOW14-44		44	41	/ 30	0.045	1.14	0.125	3.18	1.59	40.4	1437	5.3
SOOW14-52		52	41	/ 30	0.045	1.14	0.125	3.18	1.66	42.2	1648	5.3
SOOW14-60		60	41	/ 30	0.045	1.14	0.140	3.56	1.79	45.5	1939	5.3
SOOW12-2		12	2	65	/ 30	0.045	1.14	0.095	2.41	0.57	14.4	184
SOOW12-3	3		65	/ 30	0.045	1.14	0.095	2.41	0.59	15.2	217	25
SOOW12-4	4		65	/ 30	0.045	1.14	0.095	2.41	0.64	16.5	261	20
SOOW12-5	5		65	/ 30	0.045	1.14	0.095	2.41	0.70	17.8	319	16
SOOW12-6	6		65	/ 30	0.045	1.14	0.095	2.41	0.74	18.8	344	16
SOOW12-7	7		65	/ 30	0.045	1.14	0.095	2.41	0.74	18.8	358	16
SOOW12-8	8		65	/ 30	0.045	1.14	0.095	2.41	0.80	20.2	408	14
SOOW12-9	9		65	/ 30	0.045	1.14	0.095	2.41	0.92	23.5	461	14
SOOW12-10	10		65	/ 30	0.045	1.14	0.110	2.79	0.95	24.2	519	14
SOOW12-12	12		65	/ 30	0.045	1.14	0.110	2.79	0.98	24.9	591	10
SOOW12-14	14		65	/ 30	0.045	1.14	0.110	2.79	1.03	26.1	668	10
SOOW12-16	16		65	/ 30	0.045	1.14	0.110	2.79	1.08	27.5	755	10
SOOW12-18	18	65	/ 30	0.045	1.14	0.125	3.18	1.17	29.6	878	10	
SOOW12-20	20	65	/ 30	0.045	1.14	0.125	3.18	1.22	31.0	971	10	

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	AWG	N	N/AWG		Inches	mm	Inches	mm	Inches	mm	lbs/1000ft	A
SOOW12-24	12	24	65	/ 30	0.045	1.14	0.125	3.18	1.35	34.3	1106	9
SOOW12-26		26	65	/ 30	0.045	1.14	0.125	3.18	1.38	35.0	1180	9
SOOW12-30		30	65	/ 30	0.045	1.14	0.125	3.18	1.43	36.3	1327	9
SOOW12-36		36	65	/ 30	0.045	1.14	0.125	3.18	1.53	39.0	1573	8
SOOW12-37		37	65	/ 30	0.045	1.14	0.125	3.18	1.53	39.0	1588	8
SOOW12-44		44	65	/ 30	0.045	1.14	0.125	3.18	1.72	43.6	1868	7
SOOW12-60		60	65	/ 30	0.045	1.14	0.140	3.56	1.90	48.3	2467	7
SOOW10-2		10	2	103	/ 30	0.045	1.14	0.095	2.41	0.62	15.6	230
SOOW10-3	3		103	/ 30	0.045	1.14	0.095	2.41	0.65	16.5	281	30
SOOW10-4	4		103	/ 30	0.045	1.14	0.095	2.41	0.70	17.8	336	25
SOOW10-5	5		103	/ 30	0.045	1.14	0.095	2.41	0.76	19.3	409	20
SOOW10-6	6		103	/ 30	0.045	1.14	0.095	2.41	0.82	20.7	452	20
SOOW10-7	7		103	/ 30	0.045	1.14	0.095	2.41	0.82	20.7	474	20
SOOW10-8	8		103	/ 30	0.045	1.14	0.095	2.41	0.88	22.3	541	17.5
SOOW10-10	10		103	/ 30	0.045	1.14	0.110	2.79	1.05	26.8	686	17.5
SOOW10-12	12		103	/ 30	0.045	1.14	0.110	2.79	1.09	27.6	788	12.5
SOOW10-16	16		103	/ 30	0.045	1.14	0.125	3.18	1.23	31.2	1053	12.5
SOOW10-20	20		103	/ 30	0.045	1.14	0.125	3.18	1.35	34.4	1304	12.5
SOOW10-24	24		103	/ 30	0.045	1.14	0.125	3.18	1.50	38.2	1494	11.3
SOOW10-26	26		103	/ 30	0.045	1.14	0.125	3.18	1.54	39.0	1598	11.3
SOOW10-30	30		103	/ 30	0.045	1.14	0.125	3.18	1.59	40.4	1803	11.3
SOOW10-34	34		103	/ 30	0.045	1.14	0.140	3.56	1.74	44.3	2105	10
SOOW10-36	36		103	/ 30	0.045	1.14	0.140	3.56	1.74	44.3	2201	10
SOOW10-40	40		103	/ 30	0.045	1.14	0.140	3.56	1.87	47.4	2464	10
SOOW8-2	8		2	67	/ 0.0156	0.060	1.52	0.110	2.79	0.78	19.8	367

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Part number	Size	Noof conductor	Conductor strand	Nominal insulation thickness		Nominal jacket thickness		Nominal overall diameter		Weight	Ampacity at 30°C in air	
	AWG	N	N/AWG	Inches	mm	Inches	mm	Inches	mm	lbs/1000ft	A	
SOOW8-3	8	3	67 /	0.0156	0.060	1.52	0.110	2.79	0.83	21.1	452	40
SOOW8-4		4	67 /	0.0156	0.060	1.52	0.125	3.18	0.93	23.5	577	35
SOOW8-5		5	67 /	0.0156	0.060	1.52	0.125	3.18	1.00	25.4	683	28
SOOW8-6		6	67 /	0.0156	0.060	1.52	0.140	3.56	1.106	28.1	804	28
SOOW6-2	6	2	184 /	0.0117	0.060	1.52	0.125	3.18	0.92	23.4	525	55
SOOW6-3		3	184 /	0.0117	0.060	1.52	0.125	3.18	0.97	24.6	641	55
SOOW6-4		4	184 /	0.0117	0.060	1.52	0.140	3.56	1.05	26.7	785	45
SOOW6-5		5	184 /	0.0117	0.060	1.52	0.140	3.56	1.18	30.0	983	36
SOOW4-2	4	2	165 /	0.0156	0.060	1.52	0.140	3.56	1.06	26.9	728	70
SOOW4-3		3	165 /	0.0156	0.060	1.52	0.140	3.56	1.13	28.7	913	70
SOOW4-4		4	165 /	0.0156	0.060	1.52	0.155	3.94	1.25	31.8	1156	60
SOOW4-5		5	165 /	0.0156	0.060	1.52	0.155	3.94	1.31	33.2	1318	48
SOOW2-2	2	2	262 /	0.0156	0.060	1.52	0.155	3.94	1.21	30.7	1000	95
SOOW2-3		3	262 /	0.0156	0.060	1.52	0.155	3.94	1.30	33.1	1287	95
SOOW2-4		4	262 /	0.0156	0.060	1.52	0.170	4.32	1.45	36.8	1644	80
SOOW2-5		5	262 /	0.0156	0.060	1.52	0.170	4.32	1.53	38.8	1900	64

NOTE 1. Ampacity values shown are for current carrying conductors. A grounding conductor, or one which carries only the unbalanced current from other conductors, is not counted in determining current carrying capacity

NOTE 2. Correction factor for ambient temperature of 40°C is 0.91

## Standard Print Legend

Up to 4 cores all cross sections and 5 cores 8AWG-2AWG

TF CABLE SUPER FLEXTREME (COND) (SIZE) (mm<sup>2</sup>) (UL) TYPE  
 SOOW E123366 105°C SUN&WATER RES 600V FT2 CSA TYPE  
 SOOW 105°C LL 103932 FT2 -50°C

From 5 cores and 18AWG-10AWG

TF CABLE SUPER CONTROLFLEX (COND) (SIZE) (mm<sup>2</sup>) (UL) TYPE  
 SOOW E123366 105°C SUN&WATER RES 600V FT2 CSA TYPE  
 SOOW 105°C LL 103932 FT2 -50°C

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