



# SOOW

## 600V

UL 62 and CAN/CSA C22.2 No 49

Control Cable, UL, CSA, MSHA. 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>Insulation</b>	EPR compound Class 3 complies with Table 8 of UL 62																																																																								
	ICEA S-58-679, Method 1, Tab.1 <sup>1)</sup> non NEC applications <sup>2)</sup>																																																																								
<b>Color code</b>	<table border="1"> <thead> <tr> <th>Numb. of core</th> <th>Colour</th> <th>Tracer</th> <th>Numb. of core</th> <th>Colour</th> <th>Tracer</th> <th>Numb. of core</th> <th>Colour</th> <th>Tracer</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Black</td> <td>–</td> <td>8</td> <td>Red</td> <td>Black</td> <td>15</td> <td>Blue</td> <td>White</td> </tr> <tr> <td>2</td> <td>White</td> <td>–</td> <td>9</td> <td>Green</td> <td>Black</td> <td>16</td> <td>Black</td> <td>Red</td> </tr> <tr> <td>3</td> <td>Red</td> <td>–</td> <td>10</td> <td>Orange</td> <td>Black</td> <td>17</td> <td>White</td> <td>Red</td> </tr> <tr> <td>4</td> <td>Green</td> <td>–</td> <td>11</td> <td>Blue</td> <td>Black</td> <td>18</td> <td>Orange</td> <td>Red</td> </tr> <tr> <td>5</td> <td>Orange</td> <td>–</td> <td>12</td> <td>Black</td> <td>White</td> <td>19</td> <td>Blue</td> <td>Red</td> </tr> <tr> <td>6</td> <td>Blue</td> <td>–</td> <td>13</td> <td>Red</td> <td>White</td> <td>20</td> <td>Red</td> <td>Green</td> </tr> <tr> <td>7</td> <td>White</td> <td>Black</td> <td>14</td> <td>Green</td> <td>White</td> <td>21</td> <td>Orange</td> <td>Green</td> </tr> </tbody> </table>	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
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																																																																	
	<p>1) For more than 21 conductors the color sequence be repeated as necessary</p> <p>2) For method 1 color sequence to comply with NEC applications</p>																																																																								
<b>Cabling</b>	Insulated conductors are assembled round together (Integral Filled Version). Some of 8, 9, 20, 40 -core cables twisted on centrally placed, thicker insulated black conductor, instead of a rubber filler																																																																								
<b>Separator</b>	Polyester tape under jacket above 5 cores cables																																																																								
<b>Outer jacket</b>	CPE compound Class 1.4 complies with Table 11 of UL 62																																																																								
<b>Color of outer jacket</b>	Black. Other colors available on request																																																																								

# SOOW

## Features

Excellent flexibility, resistance to oil, solvents, ozone, weather, sunlight and water	NFPA 70 permitted use in Hazardous Locations Classes I, II, III, Divisions 1 & 2 as outlined in Articles 501, 502, 503 section 140
Temperature range -40°C to +90°C	Minimum bending radius: 6D D – overall diameter of cable
Flame test meets FT2, MSHA	Ink jet printed for easy identification
UV, sunlight, ozone, oil, resistant	
NEC article 700 permitted use for specific applications	

## Approvals

UL:	E123366 (CPE)
CSA:	1534535 (LL 103932)(CPE), FT2
MSHA:	P-7K-254013 (CPE)
Standard length cable packing	250, 500 or 1000 ft on drums. Other forms of packing and delivery are available on request

Part Number	Size		Conductor strand	Nominal insulation thickness		Nominal jacket thickness		Approx overall diameter		Weight lbs/1000ft	Ampacity at 30°C in air <sup>note 1, 2</sup>
	AWG	N		Inches	mm	Inches	mm	Inches	mm		
S00W18-5		5	16 /30	0.030	0.76	0.080	2.03	0.46	11.7	123	5.6
S00W18-6		6	16 /30	0.030	0.76	0.080	2.03	0.48	12.3	131	5.6
S00W18-7		7	16 /30	0.030	0.76	0.080	2.03	0.48	12.3	134	5.6
S00W18-8*		8*	16 /30	0.030	0.76	0.080	2.03	0.52	13.1	151	4.9
S00W18-9*		9*	16 /30	0.030	0.76	0.080	2.03	0.55	14.0	178	4.9
S00W18-10	18	10	16 /30	0.030	0.76	0.080	2.03	0.59	15.0	180	4.9
S00W18-12		12	16 /30	0.030	0.76	0.080	2.03	0.61	15.4	202	3.5
S00W18-14		14	16 /30	0.030	0.76	0.095	2.41	0.66	16.9	246	3.5
S00W18-16		16	16 /30	0.030	0.76	0.095	2.41	0.69	17.6	274	3.5
S00W18-18		18	16 /30	0.030	0.76	0.095	2.41	0.73	18.5	303	3.5

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Part Number	Size	No of conductor		Conductor strand		Nominal insulation thickness		Nominal jacket thickness		Approx overall diameter		Weight lbs/1000ft	Ampacity at 30°C in air <small>note 1, 2</small>
		AWG	N	N/AWG	Inches	mm	Inches	mm	Inches	mm			
S00W18-20	18	20	16	/30	0.030	0.76	0.095	2.41	0.76	19.3	333	3.5	
S00W18-22		22	16	/30	0.030	0.76	0.095	2.41	0.83	21.2	357	3.2	
S00W18-24		24	16	/30	0.030	0.76	0.095	2.41	0.83	21.2	376	3.2	
S00W18-26		26	16	/30	0.030	0.76	0.095	2.41	0.85	21.7	401	3.2	
S00W18-27		27	16	/30	0.030	0.76	0.095	2.41	0.85	21.9	409	3.2	
S00W18-30		30	16	/30	0.030	0.76	0.110	2.79	0.91	23.0	470	3.2	
S00W18-36		36	16	/30	0.030	0.76	0.110	2.79	0.97	24.7	551	2.8	
S00W18-39		39	16	/30	0.030	0.76	0.110	2.79	1.04	26.3	573	2.8	
S00W18-40		40	16	/30	0.030	0.76	0.110	2.79	1.04	26.3	584	2.8	
S00W18-44		44	16	/30	0.030	0.76	0.110	2.79	1.08	27.4	615	2.5	
S00W18-45		45	16	/30	0.030	0.76	0.110	2.79	1.09	27.8	628	2.5	
S00W18-52		52	16	/30	0.030	0.76	0.110	2.79	1.12	28.5	735	2.5	
S00W18-60		60	16	/30	0.030	0.76	0.125	3.18	1.22	30.9	870	2.5	
S00W16-5		16	5	26	/30	0.030	0.76	0.080	2.03	0.49	12.5	149	8
S00W16-6			6	26	/30	0.030	0.76	0.080	2.03	0.53	13.4	165	8
S00W16-7			7	26	/30	0.030	0.76	0.080	2.03	0.53	13.4	170	8
S00W16-8*	8*		26	/30	0.030	0.76	0.080	2.03	0.56	14.3	193	7	
S00W16-9*	9*		26	/30	0.030	0.76	0.095	2.41	0.63	16.1	238	7	
S00W16-10	10		26	/30	0.030	0.76	0.095	2.41	0.68	17.2	251	7	
S00W16-12	12		26	/30	0.030	0.76	0.095	2.41	0.70	17.7	282	5	
S00W16-14	14		26	/30	0.030	0.76	0.095	2.41	0.73	18.5	316	5	
S00W16-16	16		26	/30	0.030	0.76	0.095	2.41	0.76	19.4	354	5	
S00W16-17	17		26	/30	0.030	0.76	0.095	2.41	0.76	20.3	364	5	
S00W16-18	18		26	/30	0.030	0.76	0.095	2.41	0.80	20.3	393	5	
S00W16-20*	20*		26	/30	0.030	0.76	0.095	2.41	0.84	21.2	434	5	
S00W16-22	22	26	/30	0.030	0.76	0.095	2.41	0.92	23.4	464	4.5		
S00W16-24	24	26	/30	0.030	0.76	0.095	2.41	0.92	23.4	520	4.5		

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Part Number	Size	No of conductor		Conductor strand		Nominal insulation thickness		Nominal jacket thickness		Approx overall diameter		Weight lbs/1000ft	Ampacity at 30°C in air <sup>note 1, 2</sup> A
		AWG	N	N/AWG	Inches	mm	Inches	mm	Inches	mm			
S00W16-25	16	25	26	/30	0.030	0.76	0.095	2.41	0.94	23.9	492	4.5	
S00W16-27		27	26	/30	0.030	0.76	0.095	2.41	0.94	23.9	566	4.5	
S00W16-30		30	26	/30	0.030	0.76	0.110	2.79	1.00	25.4	615	4.5	
S00W16-34		34	26	/30	0.030	0.76	0.110	2.79	1.07	27.3	670	4	
S00W16-36		36	26	/30	0.030	0.76	0.110	2.79	1.07	27.3	724	4	
S00W16-37		37	26	/30	0.030	0.76	0.110	2.79	1.07	27.3	730	4	
S00W16-39		39	26	/30	0.030	0.76	0.110	2.79	1.11	28.2	759	4	
S00W16-40*		40*	26	/30	0.030	0.76	0.110	2.79	1.11	28.2	772	4	
S00W16-41		41	26	/30	0.030	0.76	0.110	2.79	1.19	30.3	782	3.5	
S00W16-44		44	26	/30	0.030	0.76	0.110	2.79	1.19	30.3	891	3.5	
S00W16-52		52	26	/30	0.030	0.76	0.125	3.18	1.28	32.4	1016	3.5	
S00W16-60		60	26	/30	0.030	0.76	0.125	3.18	1.35	34.2	1154	3.5	
S00W14-5		14	5	41	/30	0.045	1.14	0.095	2.41	0.64	16.4	251	12
S00W14-6			6	41	/30	0.045	1.14	0.095	2.41	0.69	17.6	277	12
S00W14-7	7		41	/30	0.045	1.14	0.095	2.41	0.69	17.6	285	12	
S00W14-8*	8*		41	/30	0.045	1.14	0.095	2.41	0.74	18.9	324	10.5	
S00W14-9*	9*		41	/30	0.045	1.14	0.095	2.41	0.86	21.9	367	10.5	
S00W14-10	10		41	/30	0.045	1.14	0.095	2.41	0.86	21.9	388	10.5	
S00W14-12	12		41	/30	0.045	1.14	0.095	2.41	0.89	22.5	441	7.5	
S00W14-14	14		41	/30	0.045	1.14	0.095	2.41	0.93	23.6	498	7.5	
S00W14-16	16		41	/30	0.045	1.14	0.095	2.41	0.98	24.8	563	7.5	
S00W14-18	18		41	/30	0.045	1.14	0.110	2.79	1.06	26.9	660	7.5	
S00W14-20	20		41	/30	0.045	1.14	0.110	2.79	1.11	28.1	730	7.5	
S00W14-24	24		41	/30	0.045	1.14	0.110	2.79	1.22	31.1	828	6.8	
S00W14-25	25		41	/30	0.045	1.14	0.125	3.18	1.28	32.5	861	6.8	
S00W14-28	28		41	/30	0.045	1.14	0.125	3.18	1.32	33.6	941	6.8	
S00W14-30	30	41	/30	0.045	1.14	0.125	3.18	1.32	33.6	1027	6.8		

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Part Number	Size	No of conductor	Conductor strand	Nominal insulation thickness	Nominal jacket thickness	Approx overall diameter		Weight		Ampacity at 30°C in air <sup>note 1, 2</sup>	
	AWG	N	N/AWG	Inches	mm	Inches	mm	Inches	mm	lbs/1000ft	A
S00W14-36	14	36	41 /30	0.045	1.14	0.125	3.18	1.42	36.2	1215	6.0
S00W14-37		37	41 /30	0.045	1.14	0.125	3.18	1.42	36.2	1224	6.0
S00W14-44		44	41 /30	0.045	1.14	0.125	3.18	1.59	40.4	1437	5.3
S00W14-52		52	41 /30	0.045	1.14	0.125	3.18	1.66	42.2	1648	5.3
S00W14-60		60	41 /30	0.045	1.14	0.140	3.56	1.79	45.5	1939	5.3
S00W12-5	12	5	65 /30	0.045	1.14	0.095	2.41	0.70	17.8	319	16
S00W12-6		6	65 /30	0.045	1.14	0.095	2.41	0.74	18.8	344	16
S00W12-7		7	65 /30	0.045	1.14	0.095	2.41	0.74	18.8	358	16
S00W12-8*		8*	65 /30	0.045	1.14	0.095	2.41	0.80	20.2	408	14
S00W12-9*		9*	65 /30	0.045	1.14	0.095	2.41	0.92	23.5	461	14
S00W12-10		10	65 /30	0.045	1.14	0.110	2.79	0.95	24.2	519	14
S00W12-12		12	65 /30	0.045	1.14	0.110	2.79	0.98	24.9	591	10
S00W12-14		14	65 /30	0.045	1.14	0.110	2.79	1.03	26.1	668	10
S00W12-16		16	65 /30	0.045	1.14	0.110	2.79	1.08	27.5	755	10
S00W12-18		18	65 /30	0.045	1.14	0.125	3.18	1.17	29.6	878	10
S00W12-20		20	65 /30	0.045	1.14	0.125	3.18	1.22	31.0	971	10
S00W12-24		24	65 /30	0.045	1.14	0.125	3.18	1.35	34.3	1106	9
S00W12-26		26	65 /30	0.045	1.14	0.125	3.18	1.38	35.0	1180	9
S00W12-30		30	65 /30	0.045	1.14	0.125	3.18	1.43	36.3	1327	9
S00W12-36		36	65 /30	0.045	1.14	0.125	3.18	1.53	39.0	1573	8
S00W12-37		37	65 /30	0.045	1.14	0.125	3.18	1.53	39.0	1588	8
S00W12-44		44	65 /30	0.045	1.14	0.125	3.18	1.72	43.6	1868	7
S00W12-60	60	65 /30	0.045	1.14	0.140	3.56	1.90	48.3	2467	7	
S00W10-5	10	5	103 /30	0.045	1.14	0.095	2.41	0.76	19.3	409	20
S00W10-6		6	103 /30	0.045	1.14	0.095	2.41	0.82	20.7	452	20
S00W10-7		7	103 /30	0.045	1.14	0.095	2.41	0.82	20.7	474	20
S00W10-8*		8*	103 /30	0.045	1.14	0.095	2.41	0.88	22.3	541	17.5

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Part Number	Size	No of conductor	Conductor strand	Nominal insulation thickness	Nominal jacket thickness	Approx overall diameter				Weight	Ampacity at 30°C in air <sup>note 1, 2</sup>
	AWG	N	N/AWG	Inches	mm	Inches	mm	Inches	mm	lbs/1000ft	A
SOOW10-9*		9*	103 /30	0.045	1.14	0.110	2.79	0.975	24.8	638	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
SOOW10-14		14	103 /30	0.045	1.14	0.110	2.79	1.14	29.0	860	12.5
SOOW10-16		16	103 /30	0.045	1.14	0.125	3.18	1.23	31.2	1053	12.5
SOOW10-18		18	103 /30	0.045	1.14	0.125	3.18	1.30	32.9	1132	12.5
SOOW10-20	10	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

\* construction with a larger diameter black core in the center (thicker insulation)

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

TF CABLE CONTROLFLEX (COND) (SIZE) (mm2) (UL) TYPE SOOW E123366 90°C SUN&WATER RES 600V FT2 CSA TYPE SOOW (COND) (SIZE) (mm2) 90°C LL 103932 600V FT2 -40°C P-7K254013 MSHA

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