

# SOOW

## 600 V

UL 62 and CAN/CSA-C 22.2 No 49

Control Cable, UL, CSA, MSHA

### 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 B-3 and UL 62																																																																								
<b>Insulation</b>	EPR compound Class 3 comply 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>																																																																								
	<table border="1"> <thead> <tr> <th>Number of core</th> <th>Color</th> <th>Tracer</th> <th>Number of core</th> <th>Color</th> <th>Tracer</th> <th>Number of core</th> <th>Color</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>	Number of core	Color	Tracer	Number of core	Color	Tracer	Number of core	Color	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
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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) 8, 9, 21, 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 comply to Table 11 of UL 62																																																																								
<b>Color of outer jacket</b>	Black. Other colors available on request																																																																								

### Features

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

# Approvals

UL: E123366 (CPE), CSA: 1534535 (LL 103932)(CPE), MSHA: P-7K-254013 (CPE), FT2

## Technical and Electrical Characteristic

Part Number	Size	No of 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
SOOW18-5	18	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
SOOW18-9*		9	16/30	0.030	0.76	0.080	2.03	0.55	14.0	178	4.9
SOOW18-10		10	16/30	0.030	0.76	0.080	2.03	0.59	15.0	180	4.9
SOOW18-12		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
SOOW18-20		20	16/30	0.030	0.76	0.095	2.41	0.76	19.3	333	3.5
SOOW18-24		24	16/30	0.030	0.76	0.095	2.41	0.83	21.2	376	3.2
SOOW18-30		30	16/30	0.030	0.76	0.110	2.79	0.91	23.0	470	3.2
SOOW16-5	16	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	0.63	16.1	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
SOOW16-14		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
SOOW16-20*		20	26/30	0.030	0.76	0.095	2.41	0.84	21.2	434	5
SOOW16-24		24	26/30	0.030	0.76	0.095	2.41	0.92	23.4	520	4.5
SOOW16-30		30	26/30	0.030	0.76	0.110	2.79	1.00	25.4	615	4.5
SOOW16-37		37	26/30	0.030	0.76	0.110	2.79	1.07	27.3	730	4
SOOW16-40*		40	26/30	0.030	0.76	0.110	2.79	1.11	28.2	772	4
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
SOOW14-5	14	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
SOOW14-10		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
SOOW14-16		16	41/30	0.045	1.14	0.095	2.41	0.98	24.8	563	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
SOOW14-37		37	41/30	0.045	1.14	0.125	3.18	1.42	36.2	1224	6.0
SOOW12-5	12	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
SOOW12-20		20	65/30	0.045	1.14	0.125	3.18	1.22	31.0	971	10
SOOW12-24		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
SOOW12-37		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
SOOW10-5	10	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
SOOW10-26		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
SOOW10-40*		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)

## Standard print legend:

TF CABLE CONTROLFLEX (COND) (SIZE) (mm<sup>2</sup>) (UL) TYPE SOOW E123366 90°C SUN&WATER RES 600V FT2 CSA TYPE SOOW  
90°C LL 103932 FT2 -40°C P-7K-254013 MSHA

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