



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

| Conductors | Flexible stranded bare copper in accordance with ASTM B-3 and UL 62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Insulation | EPR compound Class 3 comply with Table 8 of UL 62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Color code | ICEA S-58-679, Method 1, Tab.1 ¹⁾ non NEC applications ²⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <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 |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <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> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cabling | Insulated conductors are assembled round together (Integral Filled Version) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Separator | Polyester tape under jacket (above 5 cores cables) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Outer jacket | CPE compound Class 1.4 comply to Table 11 of UL 62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Color of outer jacket | 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 |
| SOOW18-10 | | 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 |
| SOOW14-16 | | 16 | 41/30 | 0.045 | 1.14 | 0.095 | 2.41 | 0.98 | 24.8 | 563 | 7.5 |

| 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 |
| SOOW14-20 | | 20 | 41/30 | 0.045 | 1.14 | 0.010 | 2.79 | 1.11 | 28.1 | 730 | 7.5 |
| SOOW14-24 | | 24 | 41/30 | 0.045 | 1.14 | 0.010 | 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 | 0.141 | 3.58 | 1.87 | 47.4 | 2464 | 10 |

Standard print legend:

TF CABLE CONTROLFLEX (COND) (SIZE) (mm²) (UL) TYPE SOOW E123366 90°C SUN&WATER RES 600V FT2 CSA TYPE SOOW

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