

## Power Cable -40°C +90°C UL CSA MSHA Extra Hard Usage - High Grade Mechanical Service

### SPECIFICATIONS & STANDARDS

UL 62/CSA-C 22.2 No 49



### CONSTRUCTION:

|                    |   |
|--------------------|---|
| <b>Conductors:</b> | Stranded bare copper, ASTM B-173 and UL 62  |
| <b>Insulation:</b> | EPR compound, 90°C compound class 3, table 8, UL 62   |
| <b>Assembly:</b>   | Insulated conductors cabled together with integral filled or rubber fillers                                   |
| <b>Separator:</b>  | Polyester tape for 8-2 AWG  |
| <b>Jacket:</b>     | Black CPE 90°C compound class 1.4, UL 62, table 15  |
| <b>Color code:</b> | ICEA S-58-679, Method 1, table 1; 2/c, 3/c - black, white, green; 4/c, 5/c - black, white, red, green, orange |

| FEATURES  | APPLICATION  |
|---|--|
| <ul style="list-style-type: none"> <li>- Excellent flexibility, resistance to oil, solvents, ozone, weather, sunlight and water</li> <li>- Flame test meets VW-1, FT2, and MSHA</li> <li>- Temperature range: -40°C to +90°C</li> <li>- Suitable for shallow water immersion</li> </ul> | <ul style="list-style-type: none"> <li>- 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</li> </ul> |

### COLOR CODE:

|                         |                                      |
|-------------------------|--------------------------------------|
| 2/C black, white        | 4/C black, white, red, green         |
| 3/C black, white, green | 5/C black, white, red, green, orange |

### MULTICORE CABLES:

| 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  |

Standard length cable packing: 1000 ft reels; Other forms of packaging available

### APPROVALS:

|              |                     |
|--------------|---------------------|
| <b>UL:</b>   | E123366             |
| <b>CSA:</b>  | 1534535 (LL 103932) |
| <b>MSHA:</b> | P-7K-254013         |

### SPECIAL FACTORY OPTIONS:

|                      |                                 |
|----------------------|---------------------------------|
| <b>Color jacket:</b> | Yellow, Orange                  |
| <b>SOOW/H07:</b>     | European harmonized dual rating |

| Part Number       | Power Conductor Size | No. of Conductors | Power Conductor Stranding     | Nominal Insulation Thickness |      | Nominal Jacket Thickness |      | Nominal O.D. |      | Approx. Weight lbs/1000 ft | Ampacity (1) 30°C Ambient Temp. A |
|-------------------|----------------------|-------------------|-------------------------------|------------------------------|------|--------------------------|------|--------------|------|----------------------------|-----------------------------------|
|                   | AWG                  |                   | No. and Diameter of Stranding | inches                       | mm   | inches                   | mm   | inches       | mm   |                            |                                   |
| SOOW8-2 IF-UL/CSA | 8                    | 2                 | 67 / 0.0156                   | 0.060                        | 1.52 | 0.110                    | 2.79 | 0.78         | 19.8 | 367                        | 40.0                              |
| SOOW8-3 IF-UL/CSA |                      | 3                 |                               |                              |      | 0.110                    | 2.79 | 0.83         | 21.1 | 452                        | 40.0                              |
| SOOW8-4 IF-UL/CSA |                      | 4                 |                               |                              |      | 0.125                    | 3.18 | 0.93         | 23.5 | 577                        | 35.0                              |
| SOOW8-5 IF-UL/CSA |                      | 5                 |                               |                              |      | 0.125                    | 3.18 | 1.00         | 25.4 | 683                        | 28.0                              |
| SOOW6-2 IF-UL/CSA | 6                    | 2                 | 184 / 0.0117                  | 0.060                        | 1.52 | 0.125                    | 3.18 | 0.92         | 23.4 | 525                        | 55.0                              |
| SOOW6-3 IF-UL/CSA |                      | 3                 |                               |                              |      | 0.125                    | 3.18 | 0.97         | 24.6 | 641                        | 55.0                              |
| SOOW6-4 IF-UL/CSA |                      | 4                 |                               |                              |      | 0.140                    | 3.56 | 1.05         | 26.7 | 785                        | 45.0                              |
| SOOW6-5 IF-UL/CSA |                      | 5                 |                               |                              |      | 0.140                    | 3.56 | 1.18         | 30.0 | 983                        | 36.0                              |
| SOOW4-2 IF-UL/CSA | 4                    | 2                 | 165 / 0.0156                  | 0.060                        | 1.52 | 0.140                    | 3.56 | 1.06         | 26.9 | 728                        | 70.0                              |
| SOOW4-3 IF-UL/CSA |                      | 3                 |                               |                              |      | 0.140                    | 3.56 | 1.13         | 28.7 | 913                        | 70.0                              |
| SOOW4-4 IF-UL/CSA |                      | 4                 |                               |                              |      | 0.155                    | 3.94 | 1.25         | 31.8 | 1156                       | 60.0                              |
| SOOW4-5 IF-UL/CSA |                      | 5                 |                               |                              |      | 0.155                    | 3.94 | 1.31         | 33.2 | 1318                       | 48.0                              |
| SOOW2-2 IF-UL/CSA | 2                    | 2                 | 262 / 0.0156                  | 0.060                        | 1.52 | 0.155                    | 3.94 | 1.21         | 30.7 | 1000                       | 95.0                              |
| SOOW2-3 IF-UL/CSA |                      | 3                 |                               |                              |      | 0.155                    | 3.94 | 1.30         | 33.1 | 1287                       | 95.0                              |
| SOOW2-4 IF-UL/CSA |                      | 4                 |                               |                              |      | 0.170                    | 4.32 | 1.45         | 36.8 | 1644                       | 80.0                              |
| SOOW2-5 IF-UL/CSA |                      | 5                 |                               |                              |      | 0.170                    | 4.32 | 1.53         | 38.8 | 1900                       | 64.0                              |

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

### STANDARD PRINT LEGEND:

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

