

## Portable Power Cable 90°C UL C(UL) MSHA Industrial Grade



### SPECIFICATIONS & STANDARDS

ICEA S-75-381/NEMA WC58, ICEA S-95-658/NEMA WC70, ASTM B172, ASTM B 33, UL 44

### CONSTRUCTION:

|                       |                                                                           |
|-----------------------|---------------------------------------------------------------------------|
| <b>Conductors:</b>    | Flexible strand tin copper, ASTM B-172 and ICEA S-75-381/NEMA WC58        |
| <b>Separator:</b>     | Tape separator between the conductor and insulation                       |
| <b>Insulation:</b>    | Ethylene-propylene rubber (EPR), ICEA S-75-381 sec 3.15, table 3-9        |
| <b>Assembly:</b>      | Conductors and rubber fillers cabled to form round core                   |
| <b>Reinforcement:</b> | Single faced rubber filled binder tape over insulation                    |
| <b>Jacket:</b>        | Black heavy duty CPE thermoset compound, ICEA S-75-381 sec 3.4, table 3-4 |
| <b>Color Code:</b>    | ICEA S-75-381 sec 3.18; black, white, green                               |

| FEATURES                                                                                                                                                                                                                                                                                       | APPLICATIONS                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Excellent flexibility</li> <li>- Water resistant and flame resistant</li> <li>- Rated and flexible at -40°C to +90°C</li> <li>- Excellent impact and abrasion resistant</li> <li>- Ozone sunlight oil, grease, weather, chemical resistant</li> </ul> | <ul style="list-style-type: none"> <li>- Portable power systems</li> <li>- Other industrial applications</li> <li>- Mining application where bare grounding conductors are not required</li> </ul> |

### APPROVALS:

|               |                                                                                   |
|---------------|-----------------------------------------------------------------------------------|
| <b>UL:</b>    | E207132 – Oil Resistant; Oil Resistant Inners; Sunlight Resistant; 90C Wet or Dry |
| <b>C(UL):</b> | E207132 - FT1; FT5; -40°C +90°C                                                   |
| <b>MSHA:</b>  | P-7K-268101                                                                       |

### 3 CONDUCTOR

| Part Number | Power Conductor Size | Power Conductor Stranding | Nominal Insulation Thickness |      | Nominal O.D. |      | Approx. Weight |        | Ampacity (1) 40°C Ambient Temp. |
|-------------|----------------------|---------------------------|------------------------------|------|--------------|------|----------------|--------|---------------------------------|
|             | AWG or MCM           | No. of Stranding          | inches                       | mm   | inches       | mm   | lbs/1000 ft    | kgs/km | A                               |
| W8-3        | 8 AWG                | 133 7x19                  | 0.060                        | 1.52 | 0.91         | 23.1 | 541            | 805    | 59                              |
| W6-3        | 6 AWG                | 133 7x19                  | 0.060                        | 1.52 | 1.01         | 25.7 | 715            | 1064   | 79                              |
| W4-3        | 4 AWG                | 259 7x37                  | 0.060                        | 1.52 | 1.05         | 26.5 | 1010           | 1503   | 104                             |
| W2-3        | 2 AWG                | 259 7x37                  | 0.060                        | 1.52 | 1.32         | 33.6 | 1405           | 2091   | 138                             |
| W1-3        | 1 AWG                | 259 7x37                  | 0.080                        | 2.03 | 1.51         | 38.4 | 1734           | 2581   | 161                             |
| W1/0-3      | 1/0 AWG              | 266 19x14                 | 0.080                        | 2.03 | 1.63         | 41.4 | 2030           | 3010   | 186                             |
| W2/0-3      | 2/0 AWG              | 342 19x18                 | 0.080                        | 2.03 | 1.73         | 44.0 | 2566           | 3818   | 215                             |
| W3/0-3      | 3/0 AWG              | 418 19x22                 | 0.080                        | 2.03 | 1.85         | 47.0 | 2885           | 4293   | 249                             |
| W4/0-3      | 4/0 AWG              | 532 19x28                 | 0.080                        | 2.03 | 1.99         | 50.6 | 3479           | 5177   | 287                             |
| W250-3      | 250 MCM              | 627 19x33                 | 0.095                        | 2.41 | 2.39         | 60.7 | 4368           | 6500   | 320                             |
| W350-3      | 350 MCM              | 888 37x24                 | 0.095                        | 2.41 | 2.66         | 67.5 | 5895           | 8772   | 394                             |
| W500-3      | 500 MCM              | 1221 37x33                | 0.095                        | 2.41 | 2.98         | 75.8 | 7820           | 11638  | 487                             |

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

### STANDARD PRINT LEGEND:

TF CABLE (SIZE) TYPE W PORTABLE POWER CABLE 2000V 90C SUN RES OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT5 (-40°C) P-7K-268101-MSHA

### SPECIAL FACTORY OPTIONS:

|                |                                                        |
|----------------|--------------------------------------------------------|
| <b>Jacket:</b> | Other colors available                                 |
| <b>MSHA:</b>   | P-7K-268077 (Neoprene)                                 |
| <b>CSA:</b>    | 1523058 (LR 103932) – FT1; FT5; 90C; (-40C) (Neoprene) |