ROUND SUBMERSIBLE HYDROFLEX
SHIELDED 5000V
INSULATION: (EPR) ETHYLENE PROPYLENE RUBBER
OUTER JACKET: NEOPRENE
SIZES: 6 AWG – 500 MCM
90°C Wet/Dry, C(UL) MSHA

1.0 APPLICATIONS:
1.1 Shielded, Medium, Voltage, High ampacity, Flexible Submersible Pump Cable designed for use as heavy duty deep well fresh or salt water suitable for continuous submersion to 984’. Dual rated submersible and SHD-GC. Impact, abrasion, Ozone, Sun, Water, Heat, Oil, and Flame resistant.

2.0 FEATURES:
2.1 • Excellent Flexibility
• High ozone, sun, weather and flame resistant
• Rated and flexible at -40°C
• Excellent impact and abrasion resistant
• Oil and heat resistant
• Indent printed for easy identification

3.0 CONSTRUCTION:
3.1 Conductors:
Annealed flexible stranded tin coated copper in accordance with ASTM B 172 and ICEA S-75-381.
3.2 Conductor Shielding:
Semi-conducting layer over the conductor.
3.3 Insulation:
Ethylene-propylene rubber (EPR).
3.4 Insulation Shield:
Non conducting bedding tape + composite tinned copper/fiber braid. Covering minimum 60%.
3.5 Circuit Identification:
The nylon in the shielding braid is colored black, white, red in accordance with ICEA S-75-381.

4.0 Grounding Conductors:
Annealed tin coated copper as per Tab. 3-21 of ICEA S-75-381.

4.1 Ground Check:
Annealed tin coated copper as per Tab. 3-21 of ICEA S-75-381. Color of insulation: yellow.

4.2 Assembly:
Three power, ground check and two non-insulated grounding conductors cabled together. Single faced rubber filled binder tape applied overall. Integral filled jacket for higher torsion resistance.

4.3 Jacket:
A reinforced NEOPRENE, CPE, TPU optional jacket available. Type extra heavy duty in accordance with Par. 3.21 of ICEA S-75-3581.

4.4 Color of Jacket:
Black, other colors available upon request.

APPROVALS:
4.1 MSHA:
4.1.1 P-07-KA060012 (Neoprene)
4.1.2 P-7K-268101 (CPE)
4.1.3 P*07-KA030001 (TPU)
4.2 CSA
4.2.1 15230258 (LR 103932)
### 5.0 Dimensions

<table>
<thead>
<tr>
<th>Power Conductor Size</th>
<th>Power Conductor Stranding</th>
<th>Ground Check Conductor Size</th>
<th>Grounding Conductor Size</th>
<th>Power Conductor Stranding</th>
<th>Insulation Thickness</th>
<th>Jacket Thickness</th>
<th>Cable O.D.</th>
<th>Approximate Weight</th>
<th>Ampacity (1) 40°C Ambient Temp.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWG or MCM</td>
<td>AWG</td>
<td>No. of Standing</td>
<td>AWG</td>
<td>No. of Wires</td>
<td>inches</td>
<td>inches</td>
<td>inches</td>
<td>millimeters</td>
<td>lbs/1000 ft</td>
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<tr>
<td>6</td>
<td>133 7 x 19</td>
<td>8</td>
<td>10</td>
<td>49 7x7</td>
<td>0.110</td>
<td>0.185</td>
<td>1.56</td>
<td>39.6</td>
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<td>259 7 x 37</td>
<td>8</td>
<td>8</td>
<td>133 7x19</td>
<td>0.110</td>
<td>0.205</td>
<td>1.68</td>
<td>42.7</td>
<td>1769</td>
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<td>6</td>
<td>133 7x19</td>
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<td>0.205</td>
<td>1.87</td>
<td>47.5</td>
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<td>8</td>
<td>5</td>
<td>133 7x19</td>
<td>0.110</td>
<td>0.205</td>
<td>1.95</td>
<td>49.5</td>
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<tr>
<td>1/0</td>
<td>266 19 x 14</td>
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<td>0.220</td>
<td>2.08</td>
<td>52.8</td>
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<tr>
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<td>342 19 x 18</td>
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<td>3</td>
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<td>0.220</td>
<td>2.20</td>
<td>55.9</td>
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<td>1</td>
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<td>0.235</td>
<td>2.50</td>
<td>63.5</td>
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<td>250 MCM</td>
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<td>266 19x14</td>
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Ampacities (Amps per conductor) are based on 30°C ambient temperature in air. 90°C conductor temperature per the 2002NEC Table 400-5 (B)