Type SHD-CGC Three-Conductor
Round Portable Power Cable 5kV

» Applications

These heavy duty cables are designed for applications such as longwall shearsers, continuous miners, loaders, drills, conveyors, pumps, and other mobile equipment requiring grounding conductors, where a ground check conductor, and metallic shielding are required.

» Standards

ICEA S-75-381/NEMA WC 58
ASTM B 172
ASTM B 33
CAN/CSA C22.2 No. 96

» Construction

Conductors:
Stranded annealed tinned copper conductor.

Conductor Shield:
Conducting layer.

Insulation:
Ethylene Propylene Rubber (EPR).

Insulation Shield:
Tinned copper/textile braid.
**Ground Check Conductor:**
Tinned copper with a yellow insulation, located in the center of the cable.

**Grounding Conductor:**
Tinned copper conductor.

**Jacket:**
Reinforced extra-heavy-duty Chlorinated Polyethylene (CPE), black.

» **Options**
- Other jacket materials such as CSP/PCP/NBR/PVC/TPU are available upon request.
- Two-layer jacket with reinforcing fibre between the two layers can be offered as an option.

» **Mechanical and Thermal Properties**
Minimum Bending Radius: $6 \times \text{OD}$
Maximum Conductor Operating Temperature: $+90^\circ \text{C}$

» **Dimensions and Weight**

<table>
<thead>
<tr>
<th>Construction</th>
<th>No. of Strands</th>
<th>Grounding Conductor Size</th>
<th>Ground Check Conductor Size</th>
<th>Nominal Insulation Thickness</th>
<th>Nominal Jacket Thickness</th>
<th>Nominal Overall Diameter</th>
<th>Nominal Weight</th>
<th>Ampacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of cores×AWG/kcmil</td>
<td>-</td>
<td>AWG/kcmil</td>
<td>AWG/kcmil</td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
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<tr>
<td>3×2/0</td>
<td>323</td>
<td>5</td>
<td>16</td>
<td>0.11</td>
<td>2.8</td>
<td>0.220</td>
<td>5.6</td>
<td>2.20</td>
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<td>4</td>
<td>16</td>
<td>0.11</td>
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<td>0.235</td>
<td>6.0</td>
<td>2.36</td>
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<td>6.7</td>
<td>2.95</td>
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</tbody>
</table>

Ampacity-Based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381.