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

Applications
These heavy duty cables are designed for use on longwall shearsers, where three shielded power conductors, three unshielded control conductors, and a grounding conductor 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.

Insulation:
Ethylene Propylene Rubber (EPR).

Insulation Shield:
Tinned copper/textile braid.

Control Group (3 Conductors):
Tinned copper conductor, EPR insulation and thermosetting jacket. Colour of insulation: Black, white and red.
Grounding Conductor:
Tinned copper conductor, located in the center of the cable.

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×OD
Maximum Conductor Operating Temperature: +90°C

Dimensions and Weight

<table>
<thead>
<tr>
<th>Construction</th>
<th>No. of Strands</th>
<th>Grounding Conductor Size</th>
<th>Control 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></td>
<td>No. of cores×AWG/kcmil</td>
<td>AWG/kcmil</td>
<td>AWG/kcmil</td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
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<td>259</td>
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<td>8</td>
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<td>2.8</td>
<td>0.205</td>
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<td>2.03</td>
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<td>0.220</td>
<td>5.6</td>
<td>2.12</td>
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</table>

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