Mine Power Feeder Cables

Type MP-GC Three-Conductor
Mine Power Feeder Cable, PVC Jacket, 8kV

» Applications ..................................................................................................................................................

These cables are designed for connections between units of mine distribution systems, suitable for installed in duct, conduit or open air and for direct burial in wet and dry locations.

» Standards ..................................................................................................................................................

ICEA S-75-381/NEMA WC 58
ASTM B-8
CAN/CSA-C22.2 No.96

» Construction ..............................................................................................................................................

Conductors:
Stranded annealed bare copper conductor.

Conductor Shield:
Conducting layer.

Insulation:
Cross-Linked Polyethylene (XLPE).

Insulation Shield:
Conducting layer + copper tape.

Ground Check Conductor:
Copper conductor with a yellow polypropylene insulation.
Grounding Conductor:
Tinned copper conductor.

Jacket:
Polyvinyl Chloride (PVC), black.

Options
- Other jacket materials such as CSP/PCP/NBR/CPE/TPU are available upon request.

Mechanical and Thermal Properties
Minimum Bending Radius: $12 \times \text{OD}$
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></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>
<td>mm</td>
<td>inch</td>
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<tr>
<td>3×4</td>
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<td>7</td>
<td>8</td>
<td>8</td>
<td>0.115</td>
<td>2.9</td>
<td>0.11</td>
<td>2.8</td>
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<tr>
<td>3×2</td>
<td>7</td>
<td>6</td>
<td>8</td>
<td>8</td>
<td>0.115</td>
<td>2.9</td>
<td>0.11</td>
<td>2.8</td>
</tr>
<tr>
<td>3×1</td>
<td>19</td>
<td>5</td>
<td>8</td>
<td>8</td>
<td>0.115</td>
<td>2.9</td>
<td>0.11</td>
<td>2.8</td>
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<tr>
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<td>4</td>
<td>8</td>
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<td>0.115</td>
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<td>8</td>
<td>0.115</td>
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<td>0.14</td>
<td>3.6</td>
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<tr>
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<td>8</td>
<td>8</td>
<td>0.115</td>
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<td>0.14</td>
<td>3.6</td>
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</tbody>
</table>

Ampacity-Based on a conductor temperature of $90^\circ \text{C}$ and an ambient air temperature of $40^\circ \text{C}$, per ICEA S-75-381.