



## Caledonian

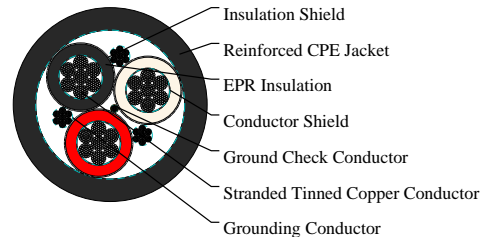
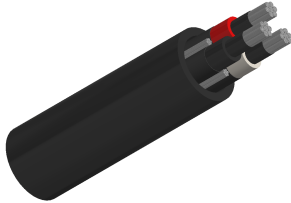
Mining Cables (ICEA & CSA Standard)

[www.caledonian-cables.com](http://www.caledonian-cables.com)

[marketing@caledonian-cables.com](mailto:marketing@caledonian-cables.com)

### Portable Power Cables

Type SHD-CGC Three-Conductor Round Portable Power Cable 5kV 3C3/0AWG



### APPLICATIONS

These heavy duty cables are designed for applications such as longwall shearers, 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

### CABLE CONSTRUCTION

Conductors: Stranded annealed tinned copper conductor.

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 are available upon request.

Two-layer jacket with reinforcing fibre between the two layers can be offered as an option.

### COLOUR CODE

Conductor Identification According to ICEA S-75-381:

3 Cores: Black+White+Red

### PHYSICAL AND THERMAL PROPERTIES

Minimum Bending Radius: 6×OD

Maximum Conductor Operating Temperature: +90°C

### DIMENSION AND PARAMETERS



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| No. of<br>Cores | AWG<br>Size | No. of<br>Strands | Nominal<br>Insulation<br>Thickness | Nominal<br>Insulation<br>Thickness | Ground<br>Wire | Ground<br>Check<br>Conductor | Nominal<br>Jacket<br>Thickness | Nominal<br>Jacket<br>Thickness | Approx.<br>Overall<br>Diameter | Approx.<br>Overall<br>Diameter | Approx.<br>Weight | Ampacity |
|-----------------|-------------|-------------------|------------------------------------|------------------------------------|----------------|------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------|----------|
|                 |             |                   | in                                 | mm                                 | AWG            | AWG                          | in                             | mm                             | in                             | mm                             | kg/km             | amps     |
| 3               | 3/0         | 418               | 0.11                               | 2.8                                | 4              | 16                           | 0.235                          | 6                              | 2.36                           | 59.9                           | 6145              | 279      |