XINLAN®

# Type G-GC Three-Conductor Portable Power Cable 2kV

**Applications**

These cables are suitable for use with mobile mining equipment such as continuous miners, drills, cutters, loading machines, AC shuttle cars and pumps. Type G-GC is for applications where grounding conductors and a ground check conductor are required.

**Standards**

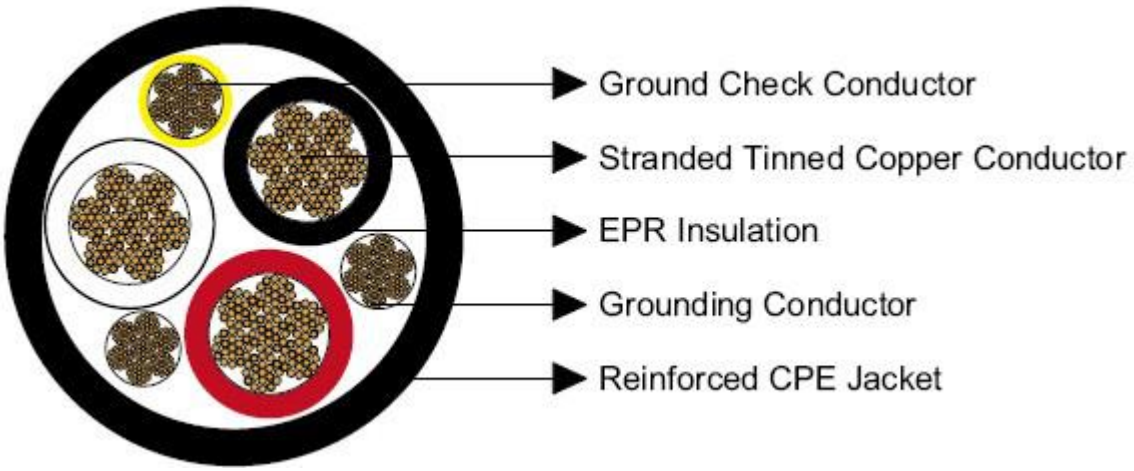
ICEA S-75-381/NEMA WC 58

ASTM B 172

ASTM B 33

CAN/CSA-C22.2 No.96

**Construction**




**Conductors:** Stranded annealed tinned copper conductor.

**Insulation:**EPR.

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

**Grounding Conductor:**Tinned copper conductor.

**Sheath:** Reinforced extra-heavy-duty Chlorinated Polyethylene(CPE), black. Other sheath materials can be offered as an option.

**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.

**Mechanical and Thermal Properties**

Minimum Bending Radius: 6×OD

Maximum Operating Temperature: +90℃

**Dimensions and Weight:**

| Construction | No. of Strands | Grounding Conductor Size | Ground Check Conductor Size | Nominal Insulation Thickness | Nominal Overall Diameter | Nominal Weight | Ampacity |
|---|---|---|---|---|---|---|---|



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| No. of cores×AWG/kcmil | - | AWG/kcmil | AWG/kcmil | inch | mm | inch | mm | lbs/kft | kg/km | A |
|---|---|---|---|---|---|---|---|---|---|---|
| 3×8 | 133 | 10 | 10 | 0.06 | 1.5 | 0.97 | 24.6 | 600 | 893 | 59 |
| 3×6 | 133 | 10 | 10 | 0.06 | 1.5 | 1.05 | 26.7 | 735 | 1094 | 79 |
| 3×4 | 259 | 8 | 10 | 0.06 | 1.5 | 1.19 | 30.2 | 1065 | 1585 | 104 |
| 3×3 | 259 | 8 | 10 | 0.06 | 1.5 | 1.25 | 31.8 | 1245 | 1853 | 120 |
| 3×2 | 259 | 7 | 10 | 0.06 | 1.5 | 1.34 | 34.0 | 1480 | 2202 | 138 |
| 3×1 | 259 | 6 | 8 | 0.08 | 2.0 | 1.51 | 38.4 | 1885 | 2805 | 161 |
| 3×1/0 | 266 | 5 | 8 | 0.08 | 2.0 | 1.65 | 41.9 | 2290 | 3408 | 186 |
| 3×2/0 | 329 | 4 | 8 | 0.08 | 2.0 | 1.75 | 44.5 | 2710 | 4033 | 215 |
| 3×3/0 | 418 | 2 | 8 | 0.08 | 2.0 | 1.89 | 48.0 | 3270 | 4866 | 249 |
| 3×4/0 | 532 | 2 | 8 | 0.08 | 2.0 | 2.04 | 51.8 | 3975 | 5915 | 287 |
| 3×250 | 627 | 2 | 6 | 0.095 | 2.4 | 2.39 | 60.7 | 4950 | 7366 | 320 |
| 3×350 | 888 | 1/0 | 6 | 0.095 | 2.4 | 2.68 | 68.1 | 6625 | 9859 | 394 |
| 3×500 | 1221 | 2/0 | 6 | 0.095 | 2.4 | 3.03 | 77.0 | 8890 | 13230 | 487 |

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



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