# Type SHD-GC Three-Conductor

# Round Portable Power Cable, TPU Jacket 8kV

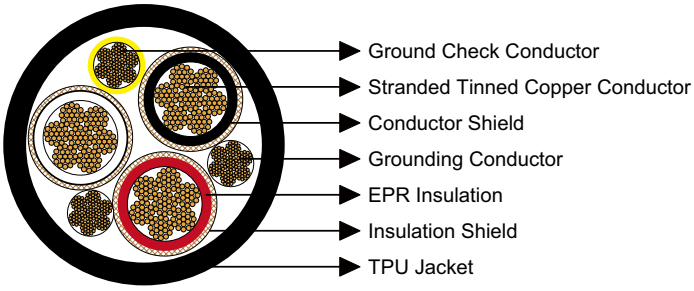
## » Applications

These heavy duty cables are designed for heavy mobile equipment such as drag lines, shovels, dredges, drills and for power feeders.

## » 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:**

Conducting tape + Tinned copper/textile braid.

**Ground Check Conductor:**

Tinned copper conductor with a yellow polypropylene insulation.

**Grounding Conductor:**

Tinned copper conductor.

**Jacket:**

Thermoplastic Polyurethane (TPU) Jacket, black.

## » Options

- Other jacket materials such as CPE/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: 8×OD

Maximum Conductor Operating Temperature: +90℃

## » Dimensions and Weight

| Construction | No. of Strands | Grounding Conductor Size | Ground Check Conductor Size | Nominal Insulation Thickness | | Nominal Jacket Thickness | | Nominal Overall Diameter | | Nominal Weight | | Ampacity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of cores×AWG/ kcmil | - | AWG/ kcmil | AWG/ kcmil | inch | mm | inch | mm | inch | mm | lbs/kft | kg/km | A |
| 3×4 | 259 | 8 | 8 | 0.150 | 3.8 | 0.205 | 5.2 | 1.94 | 49.3 | 2019 | 3004 | 122 |
| 3×2 | 259 | 6 | 8 | 0.150 | 3.8 | 0.220 | 5.6 | 2.12 | 53.8 | 2603 | 3873 | 159 |
| 3×1 | 259 | 5 | 8 | 0.150 | 3.8 | 0.220 | 5.6 | 2.21 | 56.1 | 2913 | 4334 | 184 |
| 3×1/0 | 266 | 4 | 8 | 0.150 | 3.8 | 0.220 | 5.6 | 2.32 | 58.9 | 3351 | 4986 | 211 |
| 3×2/0 | 323 | 3 | 8 | 0.150 | 3.8 | 0.235 | 6.0 | 2.46 | 62.5 | 3946 | 5871 | 243 |
| 3×3/0 | 418 | 2 | 8 | 0.150 | 3.8 | 0.250 | 6.4 | 2.62 | 66.5 | 4582 | 6817 | 279 |
| 3×4/0 | 532 | 1 | 8 | 0.150 | 3.8 | 0.250 | 6.4 | 2.75 | 69.8 | 5321 | 7917 | 321 |
| 3×250 | 627 | 1/0 | 6 | 0.150 | 3.8 | 0.250 | 6.4 | 2.89 | 73.4 | 6101 | 9077 | 355 |
| 3×350 | 888 | 2/0 | 6 | 0.150 | 3.8 | 0.280 | 7.1 | 3.21 | 81.3 | 7696 | 11450 | 435 |
| 3×500 | 1221 | 4/0 | 6 | 0.150 | 3.8 | 0.295 | 7.5 | 3.56 | 90.4 | 10199 | 15174 | 536 |

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