

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

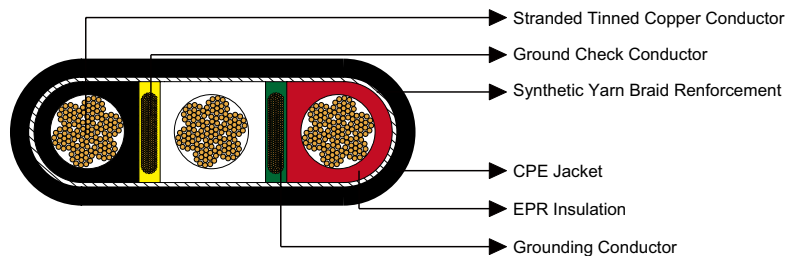
### Applications

These flat parallel cables are designed for use on AC mining equipment, such as A.C. shuttle cars, drills, cutting and loading machines.

### 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).

#### Ground Check Conductor:

Tinned copper conductor with a yellow insulation.

#### Grounding Conductor:

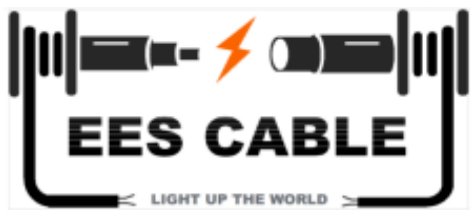
Tinned copper conductor with an optional green outer covering.

#### Reinforcement:

Synthetic yarn.

#### Jacket:

Heavy-duty/extra-heavy-duty Chlorinated Polyethylene (CPE), black. (Cables having a nominal outside diameter of more than 2.0 inches require extra-heavy-duty jackets.)



## 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

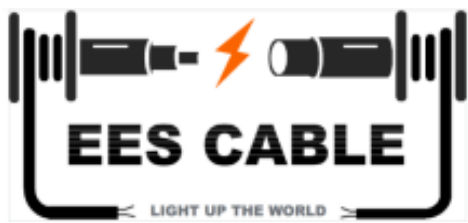
Minimum Bending Radius: 6×OD

Maximum Conductor Operating Temperature: +90°C

## Dimensions and Weight

| Construction           | No. of Strands | Grounding Conductor Size | Ground Check Conductor Size | Nominal Insulation Thickness |     | Nominal Jacket Thickness |     | Nominal Overall Diameter Height×Width |           | Nominal Weight |       | Ampacity |
|------------------------|----------------|--------------------------|-----------------------------|------------------------------|-----|--------------------------|-----|---------------------------------------|-----------|----------------|-------|----------|
|                        |                |                          |                             | inch                         | mm  | inch                     | mm  | inch                                  | mm        | lbs/kft        | kg/km |          |
| No. of cores×AWG/kcmil | -              | AWG/kcmil                | AWG/kcmil                   |                              |     |                          |     |                                       |           |                |       | A        |
| 3×6                    | 133            | 8                        | 8                           | 0.06                         | 1.5 | 0.095                    | 2.4 | 0.66×1.67                             | 16.8×42.4 | 900            | 1340  | 79       |
| 3×4                    | 259            | 7                        | 8                           | 0.06                         | 1.5 | 0.095                    | 2.4 | 0.72×1.87                             | 18.3×47.5 | 1175           | 1750  | 104      |
| 3×3                    | 259            | 6                        | 6                           | 0.06                         | 1.5 | 0.110                    | 2.8 | 0.78×2.08                             | 19.8×52.8 | 1395           | 2080  | 120      |
| 3×2                    | 259            | 5                        | 6                           | 0.06                         | 1.5 | 0.110                    | 2.8 | 0.85×2.23                             | 21.6×56.6 | 1625           | 2415  | 138      |
| 3×1                    | 259            | 4                        | 6                           | 0.08                         | 2.0 | 0.125                    | 3.2 | 0.96×2.50                             | 24.4×63.5 | 2090           | 3110  | 161      |
| 3×1/0                  | 259            | 3                        | 5                           | 0.08                         | 2.0 | 0.140                    | 3.6 | 1.01×2.67                             | 25.6×67.8 | 2470           | 3675  | 186      |
| 3×2/0                  | 329            | 2                        | 5                           | 0.08                         | 2.0 | 0.140                    | 3.6 | 1.09×2.86                             | 27.7×68.1 | 2940           | 4375  | 215      |
| 3×3/0                  | 413            | 1                        | 5                           | 0.08                         | 2.0 | 0.155                    | 3.9 | 1.18×3.12                             | 30.0×79.2 | 3515           | 5230  | 249      |
| 3×4/0                  | 532            | 1/0                      | 5                           | 0.08                         | 2.0 | 0.155                    | 3.9 | 1.24×3.30                             | 31.5×83.8 | 4245           | 6315  | 287      |

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



## Type G-GC Three-Conductor Round 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

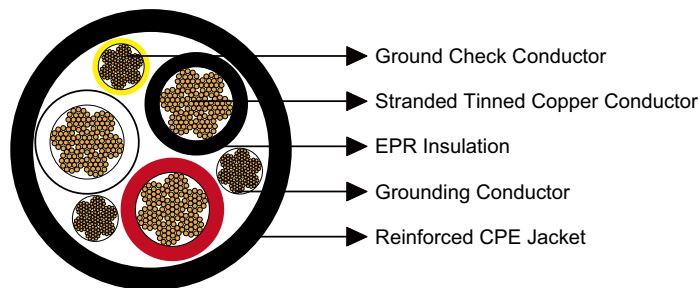
ICEA S-75-381/NEMA WC 58

ASTM B 172

ASTM B 33

CAN/CSA-C22.2 No.96

### Construction



#### **Conductors:**

Stranded annealed tinned copper conductor.

#### **Insulation:**

Ethylene Propylene Rubber (EPR).

#### **Ground Check Conductor:**

Tinned copper conductor with a yellow polypropylene insulation.

#### **Grounding Conductor:**

Tinned copper conductor with an optional green outer covering.



### Jacket:

Reinforced heavy-duty/extra-heavy-duty Chlorinated Polyethylene (CPE), black. (Cables having a nominal outside diameter of more than 2.0 inches require extra-heavy-duty jackets.)

### 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 Conductor Operating Temperature: +90°C

### 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 |
|------------------------|----------------|--------------------------|-----------------------------|------------------------------|-----|--------------------------|-----|--------------------------|------|----------------|-------|----------|
|                        |                |                          |                             | inch                         | mm  | inch                     | mm  | inch                     | mm   | lbs/kft        | kg/km |          |
| No. of cores×AWG/kcmil | -              | AWG/kcmil                | AWG/kcmil                   |                              |     |                          |     |                          |      |                |       | A        |
| 3×8                    | 133            | 10                       | 10                          | 0.06                         | 1.5 | 0.125                    | 3.2 | 0.97                     | 24.6 | 600            | 893   | 59       |
| 3×6                    | 133            | 10                       | 10                          | 0.06                         | 1.5 | 0.140                    | 3.6 | 1.05                     | 26.7 | 735            | 1094  | 79       |
| 3×4                    | 259            | 8                        | 10                          | 0.06                         | 1.5 | 0.155                    | 3.9 | 1.19                     | 30.2 | 1065           | 1585  | 104      |
| 3×3                    | 259            | 8                        | 10                          | 0.06                         | 1.5 | 0.155                    | 3.9 | 1.25                     | 31.8 | 1245           | 1853  | 120      |
| 3×2                    | 259            | 7                        | 10                          | 0.06                         | 1.5 | 0.155                    | 3.9 | 1.34                     | 34.0 | 1480           | 2202  | 138      |
| 3×1                    | 259            | 6                        | 8                           | 0.08                         | 2.0 | 0.170                    | 4.3 | 1.51                     | 38.4 | 1885           | 2805  | 161      |
| 3×1/0                  | 266            | 5                        | 8                           | 0.08                         | 2.0 | 0.170                    | 4.3 | 1.65                     | 41.9 | 2290           | 3408  | 186      |
| 3×2/0                  | 329            | 4                        | 8                           | 0.08                         | 2.0 | 0.190                    | 4.8 | 1.75                     | 44.5 | 2710           | 4033  | 215      |
| 3×3/0                  | 418            | 2                        | 8                           | 0.08                         | 2.0 | 0.190                    | 4.8 | 1.89                     | 48.0 | 3270           | 4866  | 249      |
| 3×4/0                  | 532            | 2                        | 8                           | 0.08                         | 2.0 | 0.205                    | 5.2 | 2.04                     | 51.8 | 3975           | 5915  | 287      |
| 3×250                  | 627            | 2                        | 6                           | 0.095                        | 2.4 | 0.220                    | 5.6 | 2.39                     | 60.7 | 4950           | 7366  | 320      |
| 3×350                  | 888            | 1/0                      | 6                           | 0.095                        | 2.4 | 0.235                    | 6.0 | 2.68                     | 68.1 | 6625           | 9859  | 394      |
| 3×500                  | 1221           | 2/0                      | 6                           | 0.095                        | 2.4 | 0.250                    | 6.4 | 3.03                     | 77.0 | 8890           | 13230 | 487      |

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