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

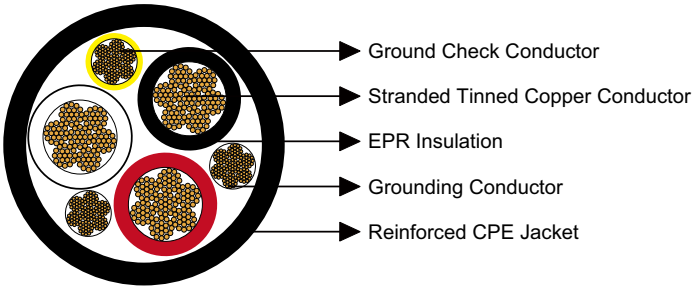
» Applications

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℃

» 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
3×8	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℃ and an ambient air temperature of 40℃, per ICEA S-75-381.