



Caledonian Mining Cables

Portable Power Cables

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: 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
No. of cores×AWG/kcmil	-	AWG/kcmil	AWG/kcmil	inch	mm	inch	mm	inch	mm	lbs/kft	kg/km	A
3×6	133	10	10	0.07	1.8	0.155	3.9	1.29	32.8	1069	1590	93
3×4	259	8	10	0.07	1.8	0.155	3.9	1.40	35.6	1295	1927	122
3×2	259	6	10	0.07	1.8	0.170	4.3	1.59	40.4	1778	2645	159
3×1	259	5	8	0.08	2.0	0.190	4.8	1.76	44.7	2163	3218	184
3×1/0	266	4	8	0.08	2.0	0.190	4.8	1.86	47.2	2508	3731	211
3×2/0	323	3	8	0.08	2.0	0.205	5.2	2.00	50.8	3001	4465	243
3×3/0	418	2	8	0.08	2.0	0.205	5.2	2.13	54.1	3470	5163	279
3×4/0	532	1	8	0.08	2.0	0.220	5.6	2.31	58.7	4192	6237	321
3×250	627	1/0	6	0.095	2.4	0.220	5.6	2.51	63.8	5213	7756	355
3×350	888	2/0	6	0.095	2.4	0.235	6.0	2.81	71.4	6824	10153	435
3×500	1221	4/0	6	0.095	2.4	0.265	6.7	3.19	81.0	9014	13411	536

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



Type SHD-GC Three-Conductor

Round Portable Power Cable, CPE Jacket 5kV

» Applications

These heavy duty cables are designed for applications such as longwall shearers, continuous miners and mobile equipment such as shovels, dredges and drills.

» Standards

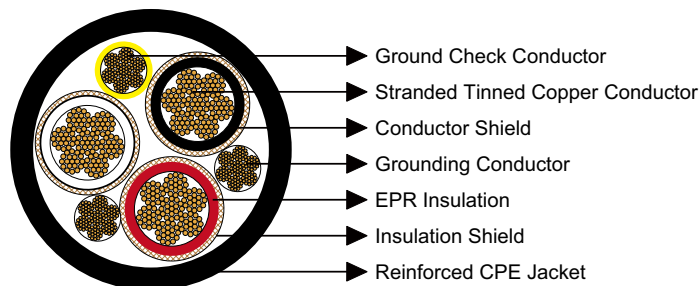
ICEA S-75-381/NEMA WC 58

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:

Tinned copper/textile braid.



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Ground Check Conductor:

Tinned copper with a yellow polypropylene insulation.

Grounding Conductor:

Tinned copper conductor.

Jacket:

Reinforced extra-heavy-duty Chlorinated Polyethylene (CPE), black.

» Options

- Other jacket materials such as CSP/PCP/NBR/PVC/TPU 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
No. of cores×AWG/kcmil	-	AWG/kcmil	AWG/kcmil	inch	mm	inch	mm	inch	mm	lbs/kft	kg/km	A
3×6	133	10	8	0.110	2.8	0.185	4.7	1.56	39.6	1560	2322	93
3×4	259	8	8	0.110	2.8	0.185	4.7	1.68	42.7	1895	2820	122
3×2	259	6	8	0.110	2.8	0.205	5.2	1.87	47.5	2445	3639	159
3×1	259	5	8	0.110	2.8	0.205	5.2	1.95	49.5	2800	4167	184
3×1/0	266	4	8	0.110	2.8	0.220	5.6	2.08	52.8	3230	4807	211
3×2/0	329	3	8	0.110	2.8	0.220	5.6	2.20	55.9	3800	5655	243
3×3/0	418	2	8	0.110	2.8	0.235	6.0	2.36	59.9	4475	6660	279
3×4/0	532	1	8	0.110	2.8	0.235	6.0	2.50	63.5	5265	7835	321
3×250	627	1/0	6	0.120	3.0	0.250	6.4	2.69	68.3	6105	9085	355
3×300	741	1/0	6	0.120	3.0	0.250	6.4	2.81	71.4	6875	10231	398
3×350	888	2/0	6	0.120	3.0	0.265	6.7	2.95	74.9	7795	11600	435
3×500	1221	4/0	6	0.120	3.0	0.280	7.1	3.31	84.1	10415	15499	536

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