Type SHD-GC Three-Conductor

Round Portable Power Cable, CPE Jacket 5kV

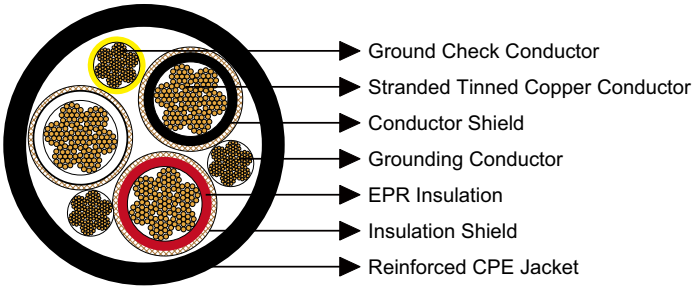
» Applications

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.

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℃

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