Type SHD-GC Three-Conductor

Round Portable Power Cable, CPE Jacket 8kV

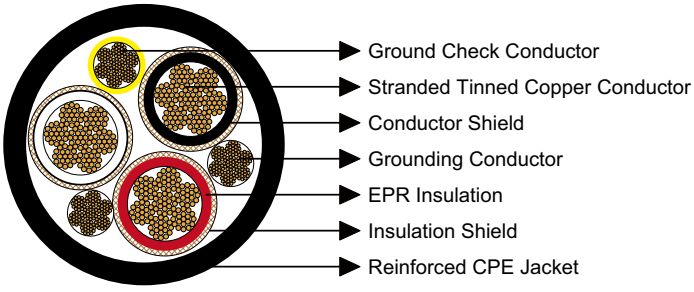
» Applications

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:

Conducting tape + 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: 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	2308	3594	122
3×2	259	6	8	0.150	3.8	0.220	5.6	2.12	53.8	2920	4554	159
3×1	329	5	8	0.150	3.8	0.220	5.6	2.21	56.1	3292	5104	184
3×1/0	259	4	8	0.150	3.8	0.220	5.6	2.32	58.9	3675	5700	211
3×2/0	329	3	8	0.150	3.8	0.235	6.0	2.46	62.5	4304	6593	243
3×3/0	413	2	8	0.150	3.8	0.250	6.4	2.62	66.5	5200	7738	279
3×4/0	532	1	8	0.150	3.8	0.250	6.4	2.75	69.8	5840	8713	321
3×250	608	1/0	6	0.150	3.8	0.250	6.4	2.89	73.4	6774	9948	355
3×300	741	1/0	6	0.150	3.8	0.265	6.7	3.04	77.2	7423	11384	398
3×350	888	2/0	6	0.150	3.8	0.280	7.1	3.21	81.3	8543	12739	435
3×500	1221	4/0	6	0.150	3.8	0.295	7.5	3.56	90.4	11260	16757	536

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