Type SHD-CGC Three-Conductor Round Portable Power Cable 5kV

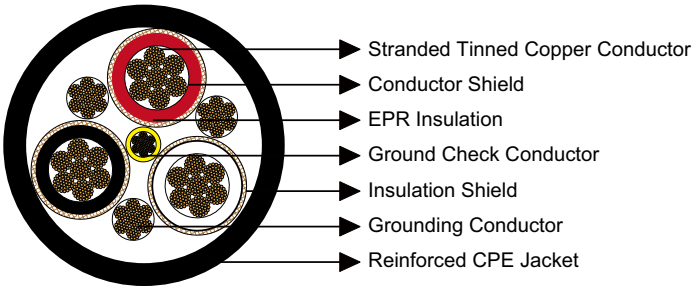
» Applications

These heavy duty cables are designed for applications such as longwall shearers, continuous miners, loaders, drills, conveyors, pumps, and other mobile equipment requiring grounding conductors, where a ground check conductor, and metallic shielding 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.

Conductor Shield:

Conducting layer.

Insulation:

Ethylene Propylene Rubber (EPR).

Insulation Shield:

Tinned copper/textile braid.

Ground Check Conductor:

Tinned copper with a yellow insulation, located in the center of the cable.

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
3×2/0	323	5	16	0.11	2.8	0.220	5.6	2.20	55.9	3716	5529	243
3×3/0	418	4	16	0.11	2.8	0.235	6.0	2.36	59.9	4130	6145	279
3×4/0	532	3	16	0.11	2.8	0.235	6.0	2.50	63.5	5190	7722	321
3×350	888	1	16	0.12	3.0	0.265	6.7	2.95	74.9	7571	11264	435

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