Type SHD-GC Three-Conductor

Round Portable Power Cable, CPE Jacket 15kV

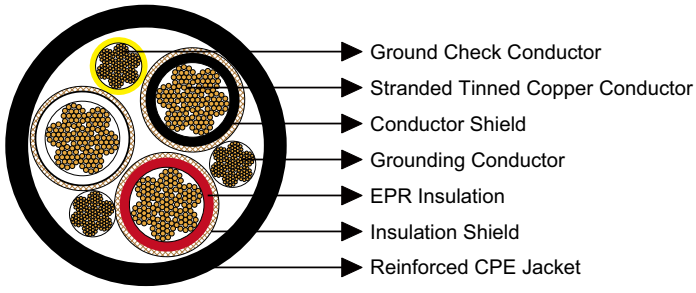
Applications

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
3×2	259	6	8	0.210	5.3	0.235	6.0	2.41	61.2	3572	5529	164
3×1	259	5	8	0.210	5.3	0.235	6.0	2.52	64.0	4060	6042	187
3×1/0	259	4	8	0.210	5.3	0.250	6.4	2.64	67.0	4495	6927	215
3×2/0	329	3	8	0.210	5.3	0.250	6.4	2.73	69.3	5010	7783	246
3×3/0	413	2	8	0.210	5.3	0.265	6.7	2.90	73.7	5995	8922	283
3×4/0	532	1	8	0.210	5.3	0.265	6.7	3.05	77.5	6860	10209	325

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

Type SHD-GC Three-Conductor

Round Portable Power Cable, TPU Jacket 15kV

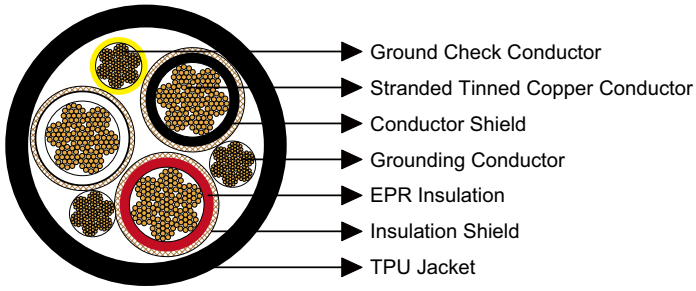
Applications

These heavy duty cables are designed for heavy mobile equipment such as drag lines, shovels, dredges, drills and for power feeders.

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 conductor with a yellow polypropylene insulation.

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: 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
3×2	259	6	8	0.210	5.3	0.235	6.0	2.41	61.2	3145	4679	164
3×1	259	5	8	0.210	5.3	0.235	6.0	2.52	64.0	3567	5307	187
3×1/0	266	4	8	0.210	5.3	0.250	6.4	2.64	67.0	3976	5916	215
3×2/0	323	3	8	0.210	5.3	0.250	6.4	2.73	69.3	4526	6734	246
3×3/0	418	2	8	0.210	5.3	0.265	6.7	2.90	73.7	5231	7783	283
3×4/0	532	1	8	0.210	5.3	0.265	6.7	3.05	77.5	6033	8976	325

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