Type SHD-GC Three-Conductor

Round Portable Power Cable, CPE Jacket 25kV

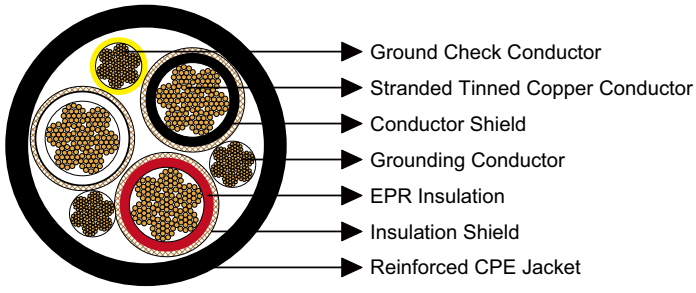
Applications

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
3×1	259	5	8	0.260	6.6	0.265	6.7	2.95	74.9	5290	7872	191
3×1/0	259	4	8	0.260	6.6	0.265	6.7	3.05	77.5	5800	8631	218
3×2/0	329	3	8	0.260	6.6	0.280	7.1	3.20	81.3	6515	9695	249
3×3/0	413	2	8	0.260	6.6	0.280	7.1	3.33	84.6	7215	10737	286
3×4/0	532	1	8	0.260	6.6	0.295	7.5	3.50	88.9	8250	12277	327

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 25kV

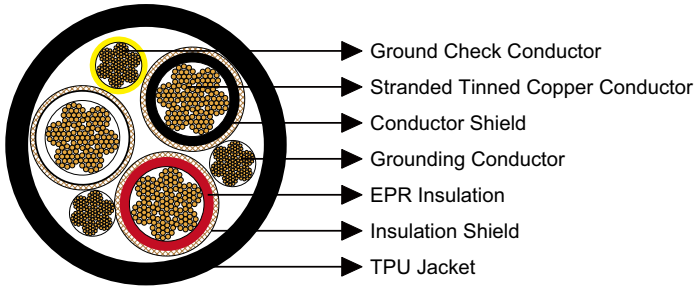
Applications

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
3×1	259	5	8	0.260	6.6	0.265	6.7	2.95	74.9	4410	6561	191
3×1/0	266	4	8	0.260	6.6	0.265	6.7	3.05	77.5	4866	7240	218
3×2/0	323	3	8	0.260	6.6	0.280	7.1	3.20	81.3	5560	8272	249
3×3/0	418	2	8	0.260	6.6	0.280	7.1	3.33	84.6	6192	9213	286
3×4/0	532	1	8	0.260	6.6	0.295	7.5	3.50	88.9	7110	10578	327

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