Type SHD Three-Conductor Flat Portable Power Cable 2kV

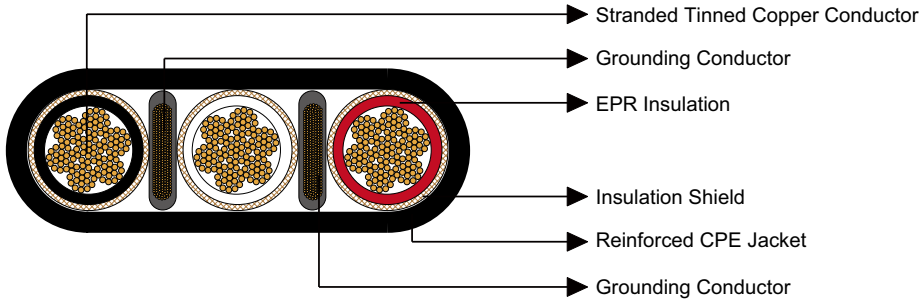
Applications

These flat parallel cables are designed for use on continuous miners requiring grounding conductors and metallic shielding over each conductor.

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.

Insulation:

Ethylene Propylene Rubber (EPR).

Insulation Shield:

Tinned copper/textile braid.

Grounding Conductor:

Tinned copper conductor covered with a conducting extrusion layer.

Jacket:

Reinforced extra-heavy-duty Chlorinated Polyethylene (CPE), black.

Options

- Other jacket materials such as 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: 6×OD

Maximum Conductor Operating Temperature: +90℃

Dimensions and Weight

Construction	No. of Strands	Grounding Conductor Size	Nominal Insulation Thickness		Nominal Jacket Thickness		Nominal Overall Diameter Height×Width		Nominal Weight		Ampacity
No. of cores×AWG/ kcmil	-	AWG/kcmil	inch	mm	inch	mm	inch	mm	lbs/kft	kg/km	A
3×2	259	6	0.07	1.8	0.125	3.2	0.94×2.45	23.9×62.2	2243	3338	159
3×1	259	5	0.08	2.0	0.140	3.6	1.04×2.64	26.4×67.1	2540	3780	184
3×1/0	259	4	0.08	2.0	0.140	3.6	1.08×2.82	27.4×71.6	2915	4338	211
3×2/0	329	3	0.08	2.0	0.155	3.9	1.18×2.99	30.0×76.0	3346	4980	243
3×3/0	413	2	0.08	2.0	0.155	3.9	1.25×3.29	31.8×83.6	3890	5789	279

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