



Type SHD Three-Conductor Flat Portable Power Cable 2kV

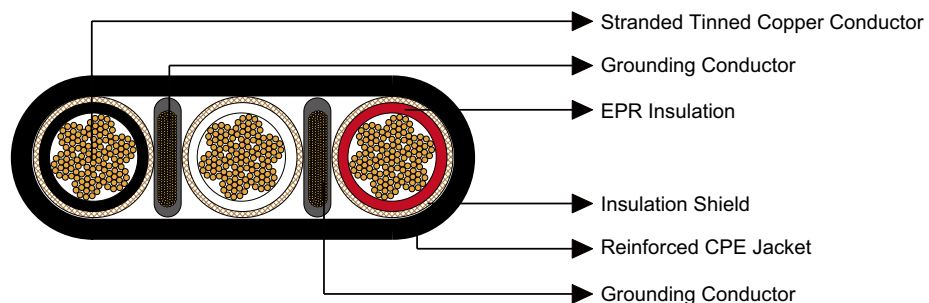
» Applications

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.



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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°C

» Dimensions and Weight

| Construction | No. of Strands | Grounding Conductor Size | Nominal Insulation Thickness | | Nominal Jacket Thickness | | Nominal Overall Diameter Height×Width | | Nominal Weight | | Ampacity |
|--------------|----------------|--------------------------|------------------------------|-----|--------------------------|-----|---------------------------------------|-----------|----------------|-------|----------|
| | | | inch | mm | inch | mm | inch | mm | lbs/kft | kg/km | |
| 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°C and an ambient air temperature of 40°C, per ICEA S-75-381.