



Type SHD-PCG Three-Conductor

Round Portable Power Cable 2kV

» Applications

These heavy duty cables are designed for use on longwall shearers, where three shielded power conductors, three unshielded control conductors, and a grounding conductor are required.

» Standards

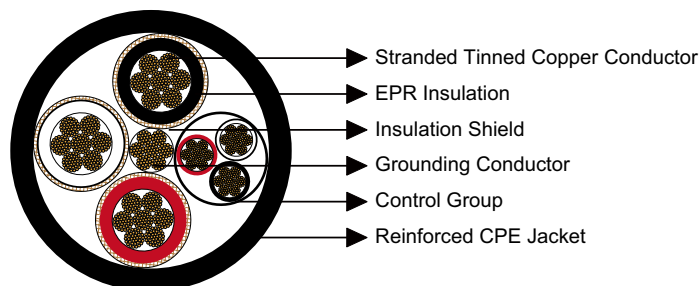
ICEA S-75-381/NEMA WC 58

ASTM B 172

ASTM B 33

CAN/CSA-C22.2 No.96

» Construction



Conductors:

Stranded annealed tinned copper conductor.

Insulation:

Ethylene Propylene Rubber (EPR).

Insulation Shield:

Tinned copper/textile braid.

Control Group (3 Conductor):

Tinned copper conductor, EPR insulation and thermosetting jacket. Colour of insulation: Black, white and red.



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Grounding Conductor:

Tinned copper conductor, located in the center of the cable.

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	Control 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
3×1/0	259	3	8	0.08	2.0	0.205	5.2	2.05	52.1	3092	4602	211
3×2/0	329	2	8	0.08	2.0	0.220	5.6	2.25	57.1	3698	5503	243
3×3/0	413	1	8	0.08	2.0	0.220	5.6	2.32	58.9	4295	6392	279
3×4/0	532	1/0	8	0.08	2.0	0.250	6.3	2.62	66.5	5115	7612	321

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