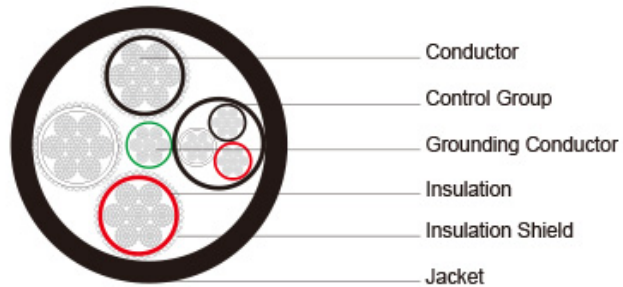


**Type SHD-PCG Three-Conductor Portable Power Cable 5kV**



**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.

**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: 6xOD  
Maximum Operating Temperature: +90°C

**Dimensions and Weight:**

Construction	No. of Strands	Grounding Conductor or Size	Control Conductor or Size	Nominal Insulation Thickness		Nominal Jacket Thickness		Nominal Overall Diameter		Nominal Weight		Ampacity
				inch	mm	inch	mm	inch	mm	lbs/ft	kg/m	
No. of cores x AWG/kc mil	-	AWG/kc mil	AWG/kc mil	inch	mm	inch	mm	inch	mm	lbs/ft	kg/m	A

3x2	259	4	8	0.1 1	2.8	0.20 5	5.2	2.0 3	51. 5	2769	4120	159
3x1	259	4	8	0.1 1	2.8	0.22 0	5.6	2.1 2	53. 8	2825	4205	184
3x1/0	266	3	8	0.1 1	2.8	0.22 0	5.6	2.2 7	57. 7	3571	5313	211
3x2/0	329	2	8	0.1 1	2.8	0.22 0	5.6	2.4 5	62. 2	3774	5615	243
3x3/0	418	1	8	0.1 1	2.8	0.23 5	6.0	2.5 8	65. 3	4752	7070	279
3x4/0	532	1/0	6	0.1 1	2.8	0.25 0	6.4	2.7 6	69. 9	6030	8971	321

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