



Caledonian

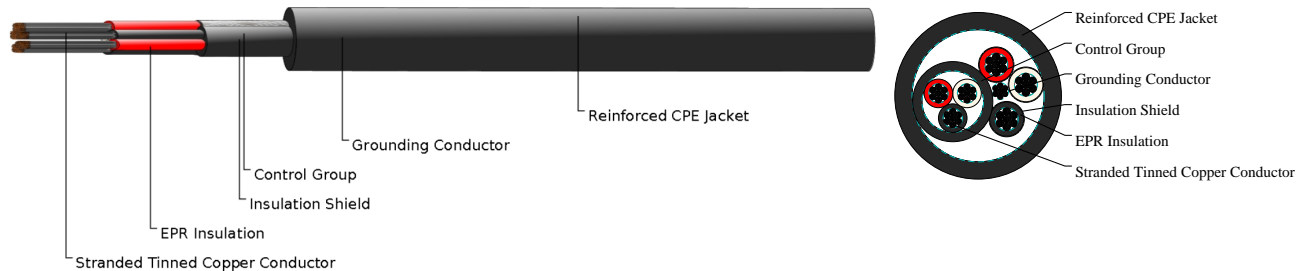
Mining Cables (ICEA & CSA Standard)

www.caledonian-cables.com

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Portable Power Cables

Type SHD-PCG Three-Conductor Round Portable Power Cable 5kV 3C1AWG



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

CABLE 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.

COLOUR CODE

Conductor Identification According to ICEA S-75-381:

3 Cores: Black+White+Red

PHYSICAL AND THERMAL PROPERTIES

Minimum Bending Radius: 6×OD

Maximum Conductor Operating Temperature: +90°C

DIMENSION AND PARAMETERS



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No. of Cores	AWG Size	No. of Strands	Control Cable Size	Nominal Insulation Thickness	Nominal Insulation Thickness	Ground Wire	Nominal Jacket Thickness	Nominal Jacket Thickness	Approx. Overall Diameter	Approx. Overall Diameter	Approx. Weight	Ampacity
			AWG	in	mm	AWG	in	mm	in	mm	kg/km	amps
3	1	259	8	0.11	2.8	4	0.22	5.6	2.12	53.8	4205	184