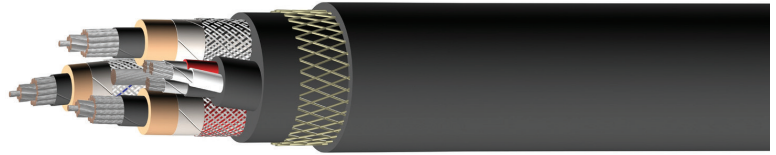


# SHD-PCG 5000V

## Portable Power Cable Extra Heavy Duty EPR / NEO 90°C MSHA Mining Grade



### SPECIFICATIONS & STANDARDS

ICEA S-75-381/NEMA WC-58, ASTM B 172, ASTM B 33

### CONSTRUCTION:

<b>Conductors:</b>	Flexible strand tinned copper conductor ASTM B 172 and ICEA S-75-381
<b>Conductors shield:</b>	Semi-conducting layer between conductor and insulation
<b>Insulation:</b>	Ethylene-propylene rubber (EPR)
<b>Insulation shield:</b>	Non-conducting synthetic bedding tape + composite tinned copper/fiber braid covering minimum 60%
<b>Circuit identification:</b>	The nylon in the shielding braid is colored black, white, and red in accordance with ICEA S-75-381
<b>Grounding conductor:</b>	Annealed tin coated copper, located in the center of the cable
<b>Pilot Group 3 Conductors:</b>	Annealed tin coated copper, EPR insulation and thermosetting jacket overall; Color of insulation: black, white and red; Size 8 AWG and 6 AWG for power conductor size 4/0 AWG
<b>Assembly:</b>	Three power and group of three pilot conductors cabled together on non-insulated tinned grounding conductor; Nylon open braid applied overall; Integral filled jacket for higher torsion resistance
<b>Jacket:</b>	Reinforced extra heavy duty Neoprene®
<b>Color of jacket:</b>	Black

FEATURES	APPLICATION
<ul style="list-style-type: none"> <li>- Excellent flexibility</li> <li>- Highly ozone, sun, weather and flame resistant</li> <li>- Rated and flexible at -40°C to +90°C</li> <li>- Excellent impact and abrasion resistant</li> <li>- Oil and heat resistant</li> <li>- Indent printed for easy identification</li> </ul>	<ul style="list-style-type: none"> <li>- Designed for use on long wall shearers, drills, conveyors, pumps, and mobile equipment requiring grounding conductor, three insulated pilot cores and individual metallic shield over insulation of power cores</li> </ul>

Standard length cable packing: 1000 ft reels; Other forms of packaging available

### APPROVALS:

**MSHA:** P-7K-254029-4 (Neoprene)

### SPECIAL FACTORY OPTIONS:

**Jacket:** Optional Neoprene® jacket available  
Other colors available; red, yellow, green, orange, blue

Part Number	Power Conductor Size	Power Conductor Stranding	Grounding Conductor		Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal O.D.		Approx. Weight	
			Size	Stranding			inches	mm	lbs./1000 ft.	kgs/km
SHDPCG5KV1/0-3	1/0 AWG	266 19x14	2	259 7x37	0.110	0.220	2.27	57.7	3800	5654
SHDPCG5KV2/0-3	2/0 AWG	342 19x18	2	259 7x37	0.110	0.220	2.43	61.7	4100	6100
SHDPCG5KV3/0-3	3/0 AWG	418 19x22	1	259 7x37	0.110	0.235	2.57	65.3	5000	7440
SHDPCG5KV4/0-3	4/0 AWG	532 19x28	1/0	266 19x14	0.110	0.250	2.75	69.9	6000	8928

### ELECTRICAL AND MECHANICAL PARAMETERS

Power-Grounding Conductor Size	Power Conductor Resistance at 20°C	Grounding Conductor Resistance at 20°C	Inductance per unit length	Operating Capacitance per unit length	Permissible Short-Circuit Current <sup>(2)</sup> (1s)	Ampacity <sup>(1)</sup> 40°C Ambient Temp.	Maximum Permissible Tensile Force
AWG	Ω/1000Ft	Ω/1000Ft	mH/1000Ft	μF/1000Ft	kA	A	N
1/0 - 2 AWG	0.1090	0.227	0.097	0.13	7.65	211	2400
2/0 - 2 AWG	0.0868	0.172	0.096	0.13	9.64	243	3000
3/0 - 1 AWG	0.0688	0.137	0.092	0.15	12.16	279	3825
4/0 - 1/0 AWG	0.0546	0.109	0.090	0.16	15.30	321	4815

(1) Ampacity –Free air measured; Based on continuous duty at 90°C conductor temperature (2) Short-circuit current (1s) – Based on conductor temperature from 90°C up to 250°C

### STANDARD PRINT LEGEND:

TF CABLE 5000V (SIZE) TYPE SHD-PCG P-7K-254029-4-MSHA



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