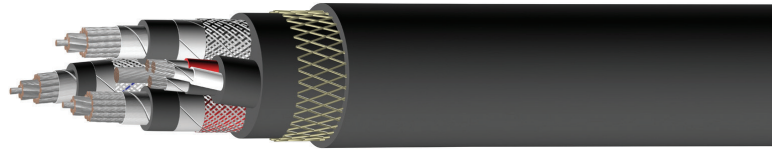


# SHD-PCG 2000V

## 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>Separator:</b>	Polyester tape 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
	AWG or MCM	No. of Stranding	AWG	No. of Stranding	inches	inches	inches	mm	lbs/1000 ft	kgs/km
SHDPCG2KV1/0-3	1/0 AWG	266 19x14	2	259 7x37	0.080	0.205	2.01	52.1	3264	4859
SHDPCG2KV2/0-3	2/0 AWG	342 19x18	2	259 7x37	0.080	0.220	2.15	54.6	3815	5678
SHDPCG2KV3/0-3	3/0 AWG	418 19x22	1	259 7x37	0.080	0.220	2.32	58.9	3933	5854
SHDPCG2KV4/0-3	4/0 AWG	532 19x28	1/0	266 19x14	0.080	0.250	2.54	64.5	5225	8224
SHDPCG2KV250-3	250 MCM	627 19x33	1/0	266 19x14	0.095	0.250	2.65	67.3	5644	8400
SHDPCG2KV300-3	300 MCM	740 37x20	1/0	266 19x14	0.095	0.250	2.70	68.6	6420	9555
SHDPCG2KV350-3	350 MCM	888 37x24	2/0	342 19x18	0.095	0.265	2.85	72.4	7089	10550

### 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	0.2270	0.096	0.16	7.65	211	2400
2/0 - 2 AWG	0.0868	0.1720	0.090	0.17	9.64	243	3000
3/0 - 1 AWG	0.0688	0.1370	0.087	0.20	12.16	279	3825
4/0 - 1/0 AWG	0.0546	0.1090	0.085	0.21	15.30	321	4815
250 - 1/0 AWG	0.0466	0.1090	0.081	0.21	18.60	355	5800
300 - 1/0 AWG	0.0389	0.1090	0.083	0.22	21.74	395	6825
350 - 2/0 AWG	0.0333	0.0868	0.084	0.24	25.31	435	7900

(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 2000V (SIZE) TYPE SHD-PCG P-7K-254029-4-MSHA



TELE-FONIKA CABLE AMERICAS

555 Remington Blvd, Bolingbrook, IL 60440 | tel: 630-406-9000 fax: 630-406-6574  
e-mail: sales@tfcable.com | http://www.tfcable.com

07/12 v3.7