

TYPE SHD-PCG 3/c 5kV

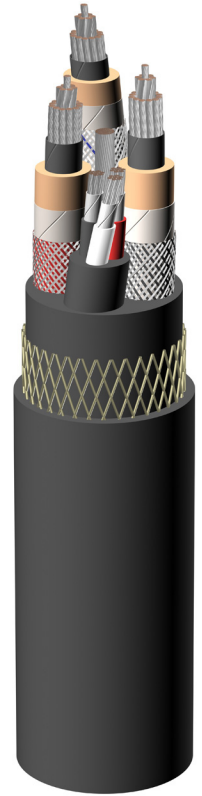
Three conductor Round portable power cable Mining grade

SPECIFICATIONS & STANDARDS

ICEA S-75-381/NEMA WC58
ASTM B 172, ASTM B 33

CONSTRUCTION:

Conductors:	Annealed flexible stranded tin coated copper in accordance with ASTM B 172 and ICEA S-75-381
Conductors shield:	Semi-conducting layer over conductor
Insulation:	Ethylene-propylene rubber (EPR)
Insulation shield:	Synthetic bedding tape + composite tinned copper/fiber braid covering minimum 60%
Circuit identification:	The nylon in the shielding braid is colored black, white, and red in accordance with ICEA S-75-381
Grounding conductor:	Annealed tin coated copper, located in the center of the cable
Pilot Group 3 Conductors:	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
Assembly:	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
Jacket:	Reinforced extra heavy duty Neoprene®
Color of jacket:	Black; Other colors available



FEATURES	APPLICATION
<ul style="list-style-type: none">- Excellent flexibility- Highly ozone, sun, weather and flame resistant- Rated and flexible at -40°C to +90°C- Excellent impact and abrasion resistant- Oil and heat resistant- Indent printed for easy identification	<ul style="list-style-type: none">- 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

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

APPROVALS:

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

Neoprene is a registered trademark of DuPont



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12/08 v2.4

TYPE SHD-PCG 3/c 5kV

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 Mining	1/0 AWG	266 19x14	2	259 7x37	0.110	0.220	2.27	57.7	3800	5654
SHDPCG5KV2/0-3 Mining	2/0 AWG	342 19x18	2	259 7x37	0.110	0.220	2.43	61.7	4100	6100
SHDPCG5KV3/0-3 Mining	3/0 AWG	418 19x22	1	259 7x37	0.110	0.235	2.57	65.3	5000	7440
SHDPCG5KV4/0-3 Mining	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 ⁽²⁾ (1s)	Ampacity ⁽¹⁾ 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:

TELE-FONIKA 5000V (SIZE) TYPE SHD-PCG P-7K-254029-4-MSHA

