

TYPE SHD-PCG 3/c 8kV

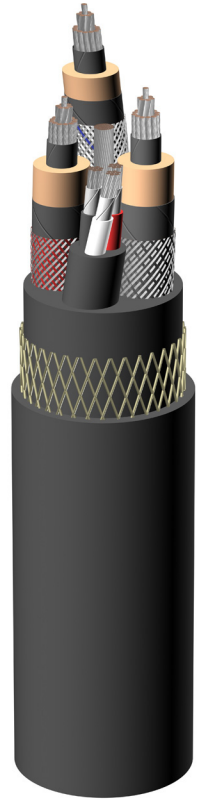
Three conductor Round portable power cable Mining grade

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

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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
SHDPCG8KV1/0-3 Mining	1/0 AWG	266 19x14	1	259 7x37	0.150	0.220	2.38	60.5	4000	5952
SHDPCG8KV2/0-3 Mining	2/0 AWG	342 19x18	1	259 7x37	0.150	0.235	2.46	62.5	4300	6398
SHDPCG8KV3/0-3 Mining	3/0 AWG	418 19x22	1	259 7x37	0.150	0.250	2.66	67.6	5200	7738
SHDPCG8KV4/0-3 Mining	4/0 AWG	532 19x28	1/0	266 19x14	0.150	0.250	2.79	70.9	6500	9672
SHDPCG8KV250-3 Mining	250 MCM	627 19x33	1/0	266 19x14	0.150	0.250	3.02	76.7	6612	9841
SHDPCG8KV350-3 Mining	350 MCM	888 37x24	2/0	342 19x18	0.150	0.280	3.34	84.8	8062	12000

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 - 1 AWG	0.1090	0.1370	0.107	0.11	7.65	211	2400
2/0 - 1 AWG	0.0868	0.1370	0.106	0.11	9.64	243	3000
3/0 - 1 AWG	0.0688	0.1370	0.101	0.12	12.16	279	3825
4/0 - 1/0 AWG	0.0546	0.1090	0.098	0.13	15.30	321	4815
250 - 1/0 AWG	0.0466	0.1090	0.094	0.16	18.16	355	5800
350 - 2/0 AWG	0.0333	0.0868	0.090	0.18	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:

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

