

# NEW

# 8000V SHD-GC

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



### SPECIFICATIONS & STANDARDS

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

### CONSTRUCTION:

- Conductors:** Flexible strand tin copper, ASTM B 172 and ICEA S-75-381, table 3-24
- Insulation:** Ethylene-propylene rubber (EPR), ICEA S-75-381 table 3-21
- Insulation shield:** Non conducting bedding tape + composite tinned copper/fiber braid covering minimum 60%
- Grounding cond:** Tin coated copper, ICEA S-75-381 table 3-24
- Ground check:** Tin coated copper, ICEA S-75-381 table 3-24; Color of insulation: yellow
- Assembly:** Three power conductor, ground check and two non-insulated grounding conductors cabled together; Nylon open braid applied overall; Integral filled jacket for high torsion resistance
- Separator:** Polyester tape over conductor
- Jacket:** Yellow extra heavy duty reinforced Neoprene®, ICEA S-75-381, table 3-3, 3-22, sec 3.21
- Color Code:** Shielding braid is colored black, white, red, ICEA S-75-381

FEATURES	APPLICATION
<ul style="list-style-type: none"> <li>- Excellent flexibility</li> <li>- Highly ozone, sun, weather, water and flame resistant</li> <li>- Rated and flexible at -40°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>- Use on AC off track equipment such as longwall miners loaders, drills, conveyors, pumps and mobile equipment requiring grounding conductors and a ground check conductor and metallic shielding overall</li> <li>- Maximum continuous conductor temperature is 90°C</li> </ul>

### APPROVALS:

- CSA:** 1523058 (LR 103932) - FT1; FT5; -40°C + 90°C
- MSHA:** P-07-KA060012

Part Number	Power Conductor Size	Power Conductor Stranding	Ground Check Conductor Size	Grounding Conductor		Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal O.D.		Approx. Weight	
				Size	Stranding			inches	mm	lbs/1000 ft	kg/km
SHDGC8KV4/0-3	4/0 AWG	532 19x28	8	1	259 7x37	0.150	0.250	2.75	69.9	5590	8319

### ELECTRICAL AND MECHANICAL PARAMETERS

Power-Grounding Conductor Size	Power Conductor Resistance at 20°C	Grounding Conductor Resistance at 20°C	Ground Check 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 or MCM	Ω/1000Ft	Ω/1000Ft	Ω/1000Ft	mH/1000Ft	μF/1000Ft	kA	A	N
4/0 AWG – 1 AWG	0.0546	0.137	0.679	0.101	0.13	15.30	321	4800

(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 (VOLTAGE) (SIZE) TYPE SHD-GC CSA 1523058  
FT1 FT5 (-40C) +90C P-07-KA060012-MSHA

### SPECIAL FACTORY OPTIONS:

- Jacket:** CPE Red, yellow, green, orange, blue
- MSHA:** P-7K-268101 (CPE)
- Jacket:** TPU Red, yellow, green, orange, blue
- MSHA:** P-07-KA030001 (TPU)

