



SHD-GC 25000 V

CSA C22.2 No. 96-17

Round portable power cable. Mining grade

APPLICATIONS

- Use on AC off track equipment such as long wall miners loaders, drills, shovels, conveyors, pumps and mobile equipment requiring grounding conductors and a ground check conductor and metallic shielding overall
- Other industrial, mining applications

CONSTRUCTION

Conductors	Soft drawn flexible stranded tinned copper wires
Conductor shield	Semi-conducting layer over the conductor
Insulation	Ethylene-propylene rubber (EPR)
Insulation shield	Semi-conducting tape + composite tinned copper/polyamide braid, Covering minimum 60%
Circuit identification	The polyamide in the shielding braid is colored black, blue, red
Grounding	Soft drawn flexible stranded tinned copper wires
Ground check	Yellow PP insulated soft drawn flexible stranded tinned copper wires
Assembly	Three power, ground check and two non-insulated grounding conductors cabled together to form a round cable core
Separator	A single faced rubber filled binder tape applied over core
Outer jacket	Extra heavy duty, high torsion resistant, integral-filled, reinforced poly-chloroprene (CR) thermosetting jacket
Color of outer jacket	Black
Minimum bending radius	Eight times overall diameter of the cable
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SHD-GC

Features

Excellent flexibility	Excellent impact and abrasion resistant		
Highly ozone, sun, weather and flame resistant	Oil and heat resistant		
Rated and flexible at -40°C	Indent printed for easy identification		

Approvals

CSA:	1523058 (LR 103932)				
MSHA:	P-07-KA060012-2 (for sizes 1AWG-500MCM)				
Standard length cable packing	1000ft on drums. Other forms of packing and delivery are available on request				

Selection Data

Cond. Size	Cond. Strand	Cond. GRD	Size GC	Insulatio	on	Jacket		Approx.	. O.D.	Approx. We	ight	Maximum Tensile Force
AWG/	No.	AWG		Inches	mm	Inches	mm	Inches	mm	Lbs./1kft.	kg/km	N
1	259	6	8	0.295	7.49	0.265	6.73	2.82	71.7	4636	6899	1900
1/0	266	5	8	0.295	7.49	0.265	6.73	2.90	73.7	4990	7426	2400
2/0	342	4	8	0.295	7.49	0.280	7.11	3.05	77.4	5701	8484	3000
3/0	418	3	8	0.295	7.49	0.280	7.11	3.19	80.9	6297	9371	3800
4/0	532	2	8	0.295	7.49	0.295	7.49	3.35	85.1	7272	10822	4800
250	627	1	8	0.295	7.49	0.295	7.49	3.42	86.8	7949	11829	5800
350	888	1/0	8	0.295	7.49	0.295	7.49	3.66	93.0	9695	14427	7900
	AWG/ MCM 1 1/0 2/0 3/0 4/0 250	AWG/ MCM No. 1 259 1/0 266 2/0 342 3/0 418 4/0 532 250 627	AWG/ MCM No. AWG 1 259 6 1/0 266 5 2/0 342 4 3/0 418 3 4/0 532 2 250 627 1	Size Strand GRD GC AWG/MCM No. AWG 1 259 6 8 1/0 266 5 8 2/0 342 4 8 3/0 418 3 8 4/0 532 2 8 250 627 1 8	AWG/MCM No. AWG Inches 1 259 6 8 0.295 1/0 266 5 8 0.295 2/0 342 4 8 0.295 3/0 418 3 8 0.295 4/0 532 2 8 0.295 250 627 1 8 0.295	Size Strand GRD GC Insulation Thickness AWG/MCM No. AWG Inches mm 1 259 6 8 0.295 7.49 1/0 266 5 8 0.295 7.49 2/0 342 4 8 0.295 7.49 3/0 418 3 8 0.295 7.49 4/0 532 2 8 0.295 7.49 250 627 1 8 0.295 7.49	Size Strand GRD GC Insulation Thickness Jacket Thickness AWG/MCM No. AWG Inches mm Inches 1 259 6 8 0.295 7.49 0.265 1/0 266 5 8 0.295 7.49 0.265 2/0 342 4 8 0.295 7.49 0.280 3/0 418 3 8 0.295 7.49 0.280 4/0 532 2 8 0.295 7.49 0.295 250 627 1 8 0.295 7.49 0.295	Size Strand GRD GC Insulation Thickness Jacket Thickness AWG/MCM No. AWG Inches mm Inches mm 1 259 6 8 0.295 7.49 0.265 6.73 1/0 266 5 8 0.295 7.49 0.265 6.73 2/0 342 4 8 0.295 7.49 0.280 7.11 3/0 418 3 8 0.295 7.49 0.280 7.11 4/0 532 2 8 0.295 7.49 0.295 7.49 250 627 1 8 0.295 7.49 0.295 7.49	Size Strand GRD GC Insulation Thickness Jacket Thickness AWG/MCM No. AWG Inches mm Inches mm Inches 1 259 6 8 0.295 7.49 0.265 6.73 2.82 1/0 266 5 8 0.295 7.49 0.265 6.73 2.90 2/0 342 4 8 0.295 7.49 0.280 7.11 3.05 3/0 418 3 8 0.295 7.49 0.280 7.11 3.19 4/0 532 2 8 0.295 7.49 0.295 7.49 3.35 250 627 1 8 0.295 7.49 0.295 7.49 3.42	Size Strand GRD GC Insulation Thickness Jacket Thickness AWG/MCM No. AWG Inches mm Inches mm Inches mm 1 259 6 8 0.295 7.49 0.265 6.73 2.82 71.7 1/0 266 5 8 0.295 7.49 0.265 6.73 2.90 73.7 2/0 342 4 8 0.295 7.49 0.280 7.11 3.05 77.4 3/0 418 3 8 0.295 7.49 0.280 7.11 3.19 80.9 4/0 532 2 8 0.295 7.49 0.295 7.49 3.35 85.1 250 627 1 8 0.295 7.49 0.295 7.49 3.42 86.8	Size Strand GRD GC Insulation Thickness Jacket Thickness AWG/MCM No. AWG Inches mm Inches mm Inches mm Lbs./1kft. 1 259 6 8 0.295 7.49 0.265 6.73 2.82 71.7 4636 1/0 266 5 8 0.295 7.49 0.265 6.73 2.90 73.7 4990 2/0 342 4 8 0.295 7.49 0.280 7.11 3.05 77.4 5701 3/0 418 3 8 0.295 7.49 0.280 7.11 3.19 80.9 6297 4/0 532 2 8 0.295 7.49 0.295 7.49 3.35 85.1 7272 250 627 1 8 0.295 7.49 0.295 7.49 3.42 86.8 7949	Size Strand GRD GC Insulation Thickness Jacket Thickness AWG/MCM No. AWG Inches mm Inches mm Inches mm Lbs./1kft. kg/km 1 259 6 8 0.295 7.49 0.265 6.73 2.82 71.7 4636 6899 1/0 266 5 8 0.295 7.49 0.265 6.73 2.90 73.7 4990 7426 2/0 342 4 8 0.295 7.49 0.280 7.11 3.05 77.4 5701 8484 3/0 418 3 8 0.295 7.49 0.280 7.11 3.19 80.9 6297 9371 4/0 532 2 8 0.295 7.49 0.295 7.49 3.35 85.1 7272 10822 250 627 1 8 0.295 7.49 0.295 7.49 3.42



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Electrical parameters

Power Conductor Resistance at 25°C	Grounding Conductor Resistance at 25°C	Ground- check Conductor Resistance at 25°C	Inductance per unit length	Operating Capacitance per unit length	Permissible short-circuit Current (1s) (2)	Ampacity(1) 40°C Ambient Temp
Ω/1000Ft	Ω/1000Ft	Ω/1000Ft	mH/1000Ft	μF/1000Ft	kA	Α
0.137	0.436	0.679	0.137	0.06	6.06	191
0.109	0.346	0.679	0.132	0.06	7.65	218
0.0868	0.274	0.679	0.125	0.07	9.64	249
0.0688	0.217	0.679	0.124	0.07	12.15	286
0.0546	0.172	0.679	0.118	0.08	15.30	326
0.0466	0.137	0.679	0.115	0.08	18.10	360
0.0333	0.109	0.679	0.107	0.10	25.31	439
	Conductor Resistance at 25°C 9/1000Ft 0.137 0.109 0.0868 0.0688 0.0546 0.0466	Conductor Resistance at 25°C 0.137 0.436 0.346 0.0868 0.274 0.0688 0.217 0.0546 0.172 0.0466 0.137	Conductor Resistance at 25°C Conductor Resistance at 25°C Conductor Resistance at 25°C Q/1000Ft Q/1000Ft Q/1000Ft 0.137 0.436 0.679 0.109 0.346 0.679 0.0868 0.274 0.679 0.0546 0.172 0.679 0.0466 0.137 0.679	Conductor Resistance at 25°C Conductor Resistance at 25°C check Conductor Resistance at 25°C per unit length Q/1000Ft Q/1000Ft MH/1000Ft 0.137 0.436 0.679 0.137 0.109 0.346 0.679 0.132 0.0868 0.274 0.679 0.125 0.0688 0.217 0.679 0.124 0.0546 0.172 0.679 0.118 0.0466 0.137 0.679 0.115	Conductor Resistance at at 25°C Conductor Resistance at 25°C Conductor Resistance at 25°C Conductor Resistance at 25°C Description of the per unit length Capacitance per unit length 0.137 0.436 0.679 0.137 0.06 0.109 0.346 0.679 0.132 0.06 0.0868 0.274 0.679 0.125 0.07 0.0546 0.172 0.679 0.118 0.08 0.0466 0.137 0.679 0.115 0.08	Conductor Resistance at 25°C Conductor Resistance at 25°C check Conductor Resistance at 25°C per unit length Capacitance per unit length short-circuit Current (1s) (2) Q/1000Ft Q/1000Ft MH/1000Ft PF/1000Ft KA 0.137 0.436 0.679 0.137 0.06 6.06 0.109 0.346 0.679 0.132 0.06 7.65 0.0868 0.274 0.679 0.125 0.07 9.64 0.0546 0.172 0.679 0.118 0.08 15.30 0.0466 0.137 0.679 0.115 0.08 18.10

⁽¹⁾ Ampacity – Based on continuous duty at 90°C conductor temperature

Special Factory Options:

Jacket:	Other colors available					
Jacket:	TPU jacket available					

Standard Print Legend

TF CABLE (VOLTAGE) 3/C (SIZE) TYPE SHD-GC CSA LR 103932 100% FT1 FT5 (-40°C) +90°C P-07-KA060012-2-MSHA

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⁽²⁾ Short-circuit current (1s) – Based on conductor temperature from 90°C up to 250°C