



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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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

Part Number	Cond. Size	Cond. Strand	Cond. Size		Nominal Insulation Thickness		Nominal Jacket Thickness		Approx. O.D.		Approx. Weight		Maximum Tensile Force
			GRD	GC	Inches	mm	Inches	mm	Inches	mm	Lbs./1kft.	kg/km	
	AWG/MCM	No.	AWG		Inches	mm	Inches	mm	Inches	mm	Lbs./1kft.	kg/km	N
SHDGC25KV1-3CSA	1	259	6	8	0.295	7.49	0.265	6.73	2.82	71.7	4636	6899	1900
SHDGC25KV1/0-3CSA	1/0	266	5	8	0.295	7.49	0.265	6.73	2.90	73.7	4990	7426	2400
SHDGC25KV2/0-3CSA	2/0	342	4	8	0.295	7.49	0.280	7.11	3.05	77.4	5701	8484	3000
SHDGC25KV3/0-3CSA	3/0	418	3	8	0.295	7.49	0.280	7.11	3.19	80.9	6297	9371	3800
SHDGC25KV4/0-3CSA	4/0	532	2	8	0.295	7.49	0.295	7.49	3.35	85.1	7272	10822	4800
SHDGC25KV250-3CSA	250	627	1	8	0.295	7.49	0.295	7.49	3.42	86.8	7949	11829	5800
SHDGC25KV350-3CSA	350	888	1/0	8	0.295	7.49	0.295	7.49	3.66	93.0	9695	14427	7900

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Electrical parameters

Power-Grounding Conductor Size	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
AWG/MCM	Ω/1000Ft	Ω/1000Ft	Ω/1000Ft	mH/1000Ft	μF/1000Ft	kA	A
1 AWG	0.137	0.436	0.679	0.137	0.06	6.06	191
1/0 AWG	0.109	0.346	0.679	0.132	0.06	7.65	218
2/0 AWG	0.0868	0.274	0.679	0.125	0.07	9.64	249
3/0 AWG	0.0688	0.217	0.679	0.124	0.07	12.15	286
4/0 AWG	0.0546	0.172	0.679	0.118	0.08	15.30	326
250 MCM	0.0466	0.137	0.679	0.115	0.08	18.10	360
350 MCM	0.0333	0.109	0.679	0.107	0.10	25.31	439

(1) Ampacity – 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

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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