



SHD-GC

2kV



CSA C22.2 No. 96-13

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
Separator	Polyester tape
Insulation	Ethylene-propylene rubber (EPR)
Insulation shield	Non-conducting bedding 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	Polyamide open braid applied overall
Outer jacket	Extra heavy duty, high torsion resistant, integral-filled, reinforced poly-chloroprene (CR) thermosetting jacket
Color of outer jacket	Black
Minimum bending radius	Six times overall diameter of the cable



Features

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

Approvals

CSA: 1523058 (LR 103932), FT 1, FT-5. MSHA: P-07-KA060012

Selection Data

Part Number	Cond. Size	Cond. Strand	Cond. Size		Nominal Insulation Thickness		Nominal Jacket Thickness		Outside Diameter		Approx. Weight		Max. Tensile Force
	AWG/ MCM	No. of wires	AWG	GC	Inches	mm	Inches	mm	Inches	mm	Lbs./ 1000ft.	kg/km	N
SHDGC2KV14-3CSA	14	49	14	14	0.070	1.78	0.125	3.18	0.91	23.0	489	727	94
SHDGC2KV12-3CSA	12	49	12	14	0.070	1.78	0.125	3.18	0.91	23.0	515	767	148
SHDGC2KV10-3CSA	10	49	12	12	0.070	1.78	0.125	3.18	0.97	24.6	594	884	238
SHDGC2KV8-3CSA	8	133	10	10	0.070	1.78	0.140	3.56	1.05	26.6	746	1110	380
SHDGC2KV6-3CSA	6	133	10	10	0.070	1.78	0.155	3.94	1.22	31.0	1011	1504	600
SHDGC2KV4-3CSA	4	259	9	10	0.070	1.78	0.155	3.94	1.34	34.1	1296	1928	950
SHDGC2KV2-3CSA	2	259	7	8	0.070	2.03	0.170	4.32	1.52	38.5	1804	2684	1500
SHDGC2KV1-3CSA	1	259	6	8	0.080	2.03	0.190	4.83	1.67	42.4	2151	3201	1900
SHDGC2KV1/0-3CSA	1/0	266	5	8	0.080	2.03	0.190	4.83	1.78	45.2	2595	3862	2400
SHDGC2KV2/0-3CSA	2/0	342	4	8	0.080	2.03	0.205	5.21	1.89	48.1	3019	4492	3000
SHDGC2KV3/0-3CSA	3/0	418	3	8	0.080	2.03	0.205	5.21	2.05	52.0	3600	5357	3800
SHDGC2KV4/0-3CSA	4/0	532	2	8	0.080	2.03	0.220	5.59	2.19	55.7	4312	6416	4800
SHDGC2KV250-3CSA	250	627	1	8	0.095	2.41	0.220	5.59	2.38	60.5	5002	7443	5800
SHDGC2KV350-3CSA	350	888	1/0	8	0.095	2.41	0.235	5.97	2.68	68.1	6598	9819	7900
SHDGC2KV500-3CSA	500	1221	3/0	8	0.095	2.41	0.265	6.73	3.05	77.5	8958	13330	11400

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 or MCM	Ω/1000Ft	Ω/1000Ft	Ω/1000Ft	mH/1000Ft	μF/1000Ft	kA	A
6 AWG	0,436	1,08	1,08	0,118	0,09	1,90	93
4 AWG	0,274	0,857	1,08	0,107	0,11	3,03	122
2 AWG	0,172	0,539	0,679	0,101	0,13	4,80	159
1 AWG	0,137	0,436	0,679	0,100	0,13	6,06	184

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AWG or MCM	$\Omega/1000\text{Ft}$	$\Omega/1000\text{Ft}$	$\Omega/1000\text{Ft}$	mH/1000Ft	$\mu\text{F}/1000\text{Ft}$	kA	A
1/0 AWG	0,109	0,346	0,679	0,097	0,14	7,65	211
2/0 AWG	0,0868	0,274	0,679	0,092	0,16	9,64	243
4/0 AWG	0,0546	0,172	0,679	0,088	0,19	15,30	321

(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

Standard print legend:

TF CABLE 2000V 3/C (SIZE) TYPE SHD-GC CSA LR 103932 FT1 FT5 (-40C) +90C P-07-KA060012-MSHA

Special factory option

Jacket:	Other colors available
Jacket:	TPU jacket available
MSHA:	P-07-KA120001 (TPU)