



SHD-GC

2kV



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
Separator	Polyester tape
Insulation	Ethylene-propylene rubber (EPR)
Insulation shield	None-conducting bedding tape + composite tinned copper/polyamide braid. Covering minimum 60%.
Circuit identification	The polyamide in the shielding braid is coloured black, blue, red
Grounding	Soft drawn flexible stranded tinned copper wires
Ground check	Sizes 14AWG and smaller: Yellow TPE-E insulated soft drawn flexible stranded tinned copper wires Sizes 12AWG and larger: 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
Colour 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), MSHA: P-07-KA060012-2 (for sizes 14AWG-500MCM)

Selection Data

Part Number	Cond. Size	Cond. Strand	Cond. Size		Nominal Insulation Thickness		Nominal Jacket Thickness		Outside Diameter		Approx. Weight		Max. Tensile Force	Ampacity(1)
	AWG/MCM	No. of wires	AWG	GC	Inches	mm	Inches	mm	Inches	mm	Lbs./1000ft.	kg/km	N	A
SHDGC2KV14-3CSA	14	49	14	14	0.070	1.78	0.125	3.18	0.91	23.0	487	725	94	N/A*
SHDGC2KV12-3CSA	12	49	12	14	0.070	1.78	0.125	3.18	0.91	23.0	515	766	148	32
SHDGC2KV10-3CSA	10	49	12	12	0.070	1.78	0.125	3.18	0.97	24.6	593	882	238	45
SHDGC2KV8-3CSA	8	133	10	10	0.070	1.78	0.140	3.56	1.05	26.6	745	1109	380	59
SHDGC2KV6-3CSA	6	133	10	10	0.070	1.78	0.155	3.94	1.22	31.0	1011	1504	600	93
SHDGC2KV4-3CSA	4	259	9	10	0.070	1.78	0.155	3.94	1.34	34.1	1297	1930	950	122
SHDGC2KV2-3CSA	2	259	7	8	0.070	2.03	0.170	4.32	1.52	38.5	1803	2683	1500	159
SHDGC2KV1-3CSA	1	259	6	8	0.080	2.03	0.190	4.83	1.67	42.4	2151	3201	1900	184
SHDGC2KV1/0-3CSA	1/0	266	5	8	0.080	2.03	0.190	4.83	1.78	45.2	2542	3782	2400	211
SHDGC2KV2/0-3CSA	2/0	342	4	8	0.080	2.03	0.205	5.21	1.89	48.1	3020	4494	3000	243
SHDGC2KV3/0-3CSA	3/0	418	3	8	0.080	2.03	0.205	5.21	2.05	52.0	3568	5309	3800	279
SHDGC2KV4/0-3CSA	4/0	532	2	8	0.080	2.03	0.220	5.59	2.19	55.7	4300	6399	4800	321
SHDGC2KV250-3CSA	250	627	1	8	0.095	2.41	0.220	5.59	2.38	60.5	5002	7443	5800	355
SHDGC2KV300-3CSA	300	740	1/0	8	0.095	2.41	0.235	5.97	2.57	65.2	5879	8749	6825	398
SHDGC2KV350-3CSA	350	888	1/0	8	0.095	2.41	0.235	5.97	2.68	68.1	6598	9819	7900	435
SHDGC2KV500-3CSA	500	1221	3/0	8	0.095	2.41	0.265	6.73	3.05	77.5	8885	13222	11400	536

* ampacity for 14AWG is not defined by the CSA standard M421.

(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

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)
AWG or MCM	$\Omega/1000\text{Ft}$	$\Omega/1000\text{Ft}$	$\Omega/1000\text{Ft}$	mH/1000Ft	$\mu\text{F}/1000\text{Ft}$	kA
6 AWG	0,436	1,08	1,08	0,118	0,09	1,90
4 AWG	0,274	0,857	1,08	0,107	0,11	3,03
2 AWG	0,172	0,539	0,679	0,101	0,13	4,80
1 AWG	0,137	0,436	0,679	0,100	0,13	6,06
1/0 AWG	0.109	0.346	0.679	0.097	0.14	7.65
2/0 AWG	0.0868	0.274	0.679	0.092	0.16	9.64
3/0 AWG	0.0688	0.217	0.679	0.091	0.17	12.15
4/0 AWG	0.0546	0.172	0.679	0.088	0.19	15.30
250 MCM	0.0466	0.137	0.679	0.084	0.21	18.16
300 MCM	0.0389	0.109	0.679	0.083	0.22	21.74
350 MCM	0.0333	0.109	0.679	0.081	0.24	25.31
500 MCM	0.0233	0.0688	0.679	0.078	0.28	36.18

Standard print legend:

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

Special factory option

Jacket:	Other colors available
Jacket:	TPU jacket available