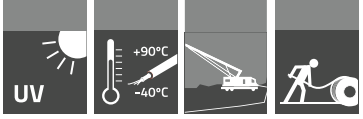

SHD-GC

2000 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
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, black, 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

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 14AWG-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. Size		Nominal Insulation Thickness		Nominal Jacket Thickness		Approx. O.D.		Approx. Weight		Maximum Tensile Force
		GRD	GC									
AWG/ MCM	**No.**	**AWG**		**Inches**	**mm**	**Inches**	**mm**	**Inches**	**mm**	**Lbs./1kft.**	**kg/km**	**N**
14	49	14	16	0.070	1.78	0.125	3.18	0.91	23.0	487	725	94
12	49	12	14	0.070	1.78	0.125	3.18	0.91	23.0	515	766	148
10	49	12	12	0.070	1.78	0.125	3.18	0.97	24.6	593	882	238
8	133	10	10	0.070	1.78	0.140	3.56	1.05	26.6	745	1109	380
6	133	10	10	0.070	1.78	0.155	3.94	1.22	31.0	1011	1504	600
4	259	9	10	0.070	1.78	0.155	3.94	1.34	34.1	1297	1930	950
2	259	7	8	0.070	2.03	0.170	4.32	1.52	38.5	1803	2683	1500
1	259	6	8	0.080	2.03	0.190	4.83	1.67	42.4	2151	3201	1900
1/0	266	5	8	0.080	2.03	0.190	4.83	1.78	45.2	2542	3782	2400
2/0	342	4	8	0.080	2.03	0.205	5.21	1.89	48.1	3020	4494	3000

SHD-GC

Cond. Size	Cond. Strand	Cond. Size		Nominal Insulation Thickness		Nominal Jacket Thickness		Approx. O.D.		Approx. Weight		Maximum Tensile Force
		GRD	GC									
AWG/ MCM	**No.**	**AWG**		**Inches**	**mm**	**Inches**	**mm**	**Inches**	**mm**	**Lbs./1kft.**	**kg/km**	**N**
3/0	418	3	8	0.080	2.03	0.205	5.21	2.05	52.0	3568	5309	3800
4/0	532	2	8	0.080	2.03	0.220	5.59	2.19	55.7	4300	6399	4800
250	627	1	8	0.095	2.41	0.220	5.59	2.38	60.5	5002	7443	5800
350	888	1/0	8	0.095	2.41	0.235	5.97	2.68	68.1	6598	9819	7900
500	1221	3/0	8	0.095	2.41	0.265	6.73	3.05	77.5	8885	13222	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
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
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
3/0 AWG	0.0688	0.217	0.679	0.091	0.17	12.15	279
4/0 AWG	0.0546	0.172	0.679	0.088	0.19	15.30	321
250 MCM	0.0466	0.137	0.679	0.084	0.21	18.16	355
350 MCM	0.0333	0.109	0.679	0.081	0.24	25.31	435
500 MCM	0.0233	0.0688	0.679	0.078	0.28	36.18	536

(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

SHD-GC

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 FT1 FT5 (-40°C) +90°C P-07-KA060012-2-MSHA

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