



SHD-GC

2000 V

ICEA S-75-381/NEMA WC-58

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, white, 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

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

Part Number	Cond. Size	Cond. Strand	Cond. Size		Nominal Insulation Thickness		Nominal Jacket Thickness		Approx. O.D.		Approx. Weight		Maximum Tensile Force
	AWG/MCM	No.	GRD	GC	Inches	mm	Inches	mm	Inches	mm	Lbs./1kft.	kg/km	N
SHDGC2KV12-3	12	49	12	14	0.070	1.78	0.125	3.18	0.91	23.0	515	766	148
SHDGC2KV10-3	10	49	10	12	0.070	1.78	0.125	3.18	0.99	25.2	635	945	238
SHDGC2KV8-3	8	133	10	12	0.070	1.78	0.155	3.94	1.05	26.6	766	1140	380
SHDGC2KV6-3	6	133	10	10	0.070	1.78	0.155	3.94	1.24	31.6	1038	1545	600
SHDGC2KV4-3	4	259	8	10	0.070	1.78	0.155	3.94	1.35	34.3	1330	1979	950
SHDGC2KV2-3	2	259	6	8	0.070	2.03	0.170	4.32	1.53	38.9	1816	2702	1500
SHDGC2KV1-3	1	259	5	8	0.080	2.03	0.190	4.83	1.69	43.0	2226	3313	1900
SHDGC2KV1/0-3	1/0	266	4	8	0.080	2.03	0.190	4.83	1.79	45.4	2607	3880	2400
SHDGC2KV2/0-3	2/0	342	3	8	0.080	2.03	0.205	5.21	1.92	48.8	3123	4647	3000
SHDGC2KV3/0-3	3/0	418	2	8	0.080	2.03	0.205	5.21	2.05	52.0	3642	5420	3800
SHDGC2KV4/0-3	4/0	532	1	8	0.080	2.03	0.220	5.59	2.22	56.3	4428	6590	4800

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			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
SHDGC2KV250-3	250	627	1/0	8	0.095	2.41	0.220	5.59	2.41	61.1	5167	7689	5800
SHDGC2KV300-3	300	740	1/0	8	0.095	2.41	0.235	5.97	2.57	65.2	5879	8749	6825
SHDGC2KV350-3	350	888	2/0	8	0.095	2.41	0.235	5.97	2.69	68.3	6594	9813	7900
SHDGC2KV500-3	500	1221	4/0	8	0.095	2.41	0.265	6.73	3.05	77.5	9178	13657	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	$\Omega/1000\text{Ft}$	$\Omega/1000\text{Ft}$	$\Omega/1000\text{Ft}$	mH/1000Ft	$\mu\text{F}/1000\text{Ft}$	kA	A
6 AWG	0.436	1.08	1.08	0.118	0.09	1.90	93
4 AWG	0.274	0.679	1.08	0.107	0.11	3.03	122
2 AWG	0.172	0.436	0.679	0.101	0.13	4.80	159
1 AWG	0.137	0.346	0.679	0.100	0.13	6.06	184
1/0 AWG	0.109	0.274	0.679	0.097	0.14	7.65	211
2/0 AWG	0.0868	0.217	0.679	0.092	0.16	9.64	243
3/0 AWG	0.0688	0.172	0.679	0.091	0.17	12.15	279
4/0 AWG	0.0546	0.137	0.679	0.088	0.19	15.30	321
250 MCM	0.0466	0.109	0.679	0.084	0.21	18.16	355
300 MCM	0.0389	0.109	0.679	0.083	0.22	21.74	398
350 MCM	0.0333	0.0868	0.679	0.081	0.24	25.31	435
500 MCM	0.0233	0.0546	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 FT1 FT5 (-40°C) +90°C P-07-KA060012-2-MSHA

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