



SHD-GC

15000 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
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, 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	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



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 2AWG-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
		No.	GRD	GC	Inches	mm	Inches	mm	Inches	mm	Lbs./1kft.	kg/km	N
SHDGC15KV2-3	2	259	6	8	0.210	5.33	0.235	5.97	2.31	58.8	3262	4854	1500
SHDGC15KV1-3	1	259	5	8	0.210	5.33	0.235	5.97	2.42	61.4	3638	5414	1900
SHDGC15KV1/0-3	1/0	266	4	8	0.210	5.33	0.250	6.35	2.52	63.9	4109	6114	2400
SHDGC15KV2/0-3	2/0	342	3	8	0.210	5.33	0.250	6.35	2.62	66.5	4623	6880	3000
SHDGC15KV3/0-3	3/0	418	2	8	0.210	5.33	0.265	6.73	2.78	70.6	5325	7924	3800
SHDGC15KV4/0-3	4/0	532	1	8	0.210	5.33	0.265	6.73	2.92	74.2	6141	9138	4800
SHDGC15KV250-3	250	627	1/0	8	0.210	5.33	0.265	6.73	3.07	78.1	6912	10285	5800
SHDGC15KV350-3	350	888	2/0	8	0.210	5.33	0.280	7.11	3.29	83.5	8473	12609	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	$\Omega/1000\text{Ft}$	$\Omega/1000\text{Ft}$	$\Omega/1000\text{Ft}$	mH/1000Ft	$\mu\text{F}/1000\text{Ft}$	kA	A
2 AWG	0.172	0.436	0.679	0.131	0.07	4.80	164
1 AWG	0.137	0.346	0.679	0.126	0.07	6.06	187
1/0 AWG	0.109	0.274	0.679	0.122	0.08	7.65	215
2/0 AWG	0.0868	0.217	0.679	0.115	0.09	9.64	246
3/0 AWG	0.0688	0.172	0.679	0.114	0.09	12.15	283
4/0 AWG	0.0546	0.137	0.679	0.109	0.10	15.30	325
250 MCM	0.0466	0.109	0.679	0.101	0.12	18.16	359
350 MCM	0.0333	0.0868	0.679	0.096	0.13	25.31	438

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

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