

Anaconda® Brand Type SHD-GC Power, Shielded Round Portable w/ Ground-Check, EPR/CPE 5000 Volts, 90°C, Three Conductor



Product Construction

Conductor:

- 6 AWG thru 500 kcmil coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Extruded Strand Shield (ESS):

- Extruded thermosetting semi-conducting stress control layer over conductor

Insulation:

- Ethylene Propylene Rubber (EPR) insulation colored for contrasting with black conducting layer

Insulation Shield:

- A flexible coated copper/textile braid shield is applied over a non-conducting overlapped tape

Ground-Check Conductor:

- Annealed copper, rope-lay-stranded per ASTM B172, insulated with high-strength yellow polypropylene

Grounding Conductors:

- Coated copper, rope-lay-stranded per ASTM B172
- Two conductors in contact with the flexible copper braid shield

Jacket:

- Reinforced, two-layer, extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:

- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE SHD-GC 5000 VOLTS P-7K-102-046 MSHA

Options:

- Colored jackets are available
- TPU (Thermoplastic Polyurethane) jacket
- Anamaxx® jacket

Applications:

- Designed for use as a trailing cable on AC mining equipment:
 - Where service conditions are severe and maximum safety is mandatory (such as power shovels and draglines in open-pit mines, quarries, gantry cranes and slag reclaiming)
 - For high-voltage distribution in underground mines where frequent relocation is necessary

Features:

- Simultaneous extrusion and vulcanization of both strand shield and insulation form a virtually perfect electrode, eliminating unequal electrical stresses

Features (cont'd):

- Excellent heat, moisture, steam, oil, corona, chemical and radiation resistance
- Flexible for easy handling
- High dielectric strength
- Electrical stability under stress
- Low dielectric loss
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range
- Two-layer jacket is reinforced to provide maximum protection from mechanical damage—the cause of most portable cable failures

Compliances:

- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection

Packaging:

- Material cut to length and shipped on non-returnable reels

6 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED ROUND PORTABLE W/ GROUND-CHECK, TYPE SHD-GC - 5000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	
16241.210600	3	6	133	0.110	2.8	10	8	0.185	4.7	1.56	39.6	540	804	1560	2322	93
16204.858221	3	4	259	0.110	2.8	8	8	0.185	4.7	1.68	42.7	720	1072	1895	2820	122
16202.317964	3	2	259	0.110	2.8	6	8	0.205	5.2	1.87	47.9	1030	1533	2445	3639	159
16201.396409	3	1	259	0.110	2.8	5	8	0.205	5.2	1.95	49.5	1248	1857	2800	4167	184
16241.615100	3	1/0	259	0.110	2.8	4	8	0.220	5.6	2.08	52.8	1533	2281	3230	4807	211
16252.271926	3	2/0	329	0.110	2.8	3	8	0.220	5.6	2.20	55.9	1854	2760	3800	5655	243
16241.215300	3	3/0	413	0.110	2.8	2	8	0.235	6.0	2.36	59.9	2322	3456	4475	6660	279
16254.730315	3	4/0	532	0.110	2.8	1	8	0.235	6.0	2.50	63.5	2936	4369	5265	7835	321
16241.216000	3	250	608	0.120	3.0	1/0	6	0.250	6.4	2.69	68.3	3340	4970	6105	9085	355
16241.216300	3	300	741	0.120	3.0	1/0	6	0.250	6.4	2.81	71.4	3962	5897	6875	10231	398
16262.687414	3	350	851	0.120	3.0	2/0	6	0.265	6.7	2.95	74.9	4522	6730	7795	11600	435
16265.570479	3	500	1221	0.120	3.0	4/0	6	0.280	7.1	3.31	84.1	6515	9696	10415	15499	536

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.

Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weight may vary.

These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.