



36-515

Type SHD-GC 3/C Mold-cured CPE Jacket • 5000 Volts

Conductors

Flexible tinned copper

Ground Check Conductor²

Flexible tinned copper with yellow polypropylene insulation

Strand Shield

Semi-conducting layer

Ground Wires

Flexible tinned copper

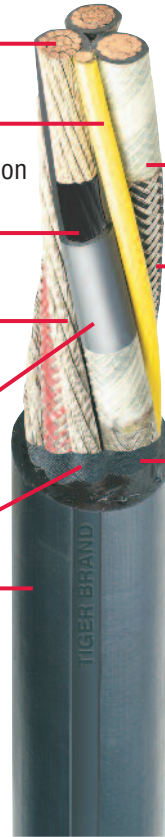
Insulation

90°C ethylene-propylene rubber (EPR)

Separator Tape

Jacket¹

Reinforced mold-cured thermosetting Chlorinated Polyethylene (CPE) Jacket. Cable identification via permanent marking.



Tape

Non-conducting

Insulation Shielding

Tinned copper and color coded nylon braid

Assembly

Taped core

Application

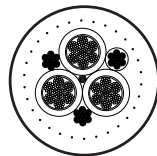
Heavy duty portable power cable for use in circuits not exceeding 5,000 volts. Designed for applications such as shovels, dredges and drills. Recommended maximum continuous conductor temperature in 90°C. Suitable for shallow water submersion.

Cable carries “P-184-MSHA” marking indicating acceptance as flame resistant by the Pennsylvania Department of Environmental Protection and the Mine Safety and Health Administration.

Tiger® Brand Mining Cable meets or exceeds ICEA Standards S-75-381/NEMA WC-58, ASTM B-172 and B-33.

See Page 34 for jacket color options.

Also available with **Extra-Tough** Thermoplastic Polyurethane (TPU) jacket for extremely abrasive environments! See page 8.



Round-shaped cross-section

See Page 32-33 for Tiger Stripe options



Photo courtesy P&H

Ratings & Approvals

- Mine Safety & Health Administration 184-MSHA.
- Pennsylvania Department of Environmental Protection P-184.
- Insulated Cable Engineers Association S-75-381/NEMA WC-58. Design standard for mining cables.
- Canadian Standards Association C22.2 No. 96 File 82346, FT1, FT5, -50°C
CSA Phase Color ID available on Type SHD-GC, SHD-BGC up to 25kV
SHD-GC meets FT4 requirements

Tiger® Brand is a registered trademark of AmerCable Incorporated, a Nexans Company.

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36-515-	Power Conductors			Grounding Conductors		Jacket Thickness mils	Nominal Outside Dimensions in.	Approx. Weight lbs. per 1,000 ft.	Ampacity* 40°C Ambient Temp
	Size AWG	No. of Wires per Conductor	Insulation Thickness mils	Size AWG	No. of Wires per Conductor				
006	6	133	110	10	49	185	1.56	1560	93
004	4	259	110	8	133	185	1.68	1920	122
002	2	259	110	6	133	205	1.87	2500	159
001	1	259	110	5	133	205	1.95	2860	184
010	1/0	266	110	4	259	220	2.08	3390	211
020	2/0	323	110	3	259	220	2.20	3830	243
030	3/0	418	110	2	259	235	2.36	4418	279
040	4/0	532	110	1	259	235	2.50	5300	321
250	250	627	120	1/0	266	250	2.69	6450	355
350	350	888	120	2/0	323	265	2.95	7880	435
500	500	1221	120	4/0	532	280	3.31	10440	536

Primary Usage Recommendation



1 Jacket – CPE jacket. Black CPE is standard.
Colored CPE available upon request.
See page 34 for color options.

2 Ground Check Conductor – 8 AWG (minimum 133 strand 7x19) ground check conductor on 6 AWG through 4/0 AWG cable.

6 AWG (minimum 133 strand 7x19) ground check conductor on 250 kcmil and larger cable.

* **Ampacity** – Based on continuous duty at 90°C conductor temperature.

Tolerances – +8%/-5% of nominal outside diameter

AWG/Metric Cross Reference

AWG/kcmil Size	Area of AWG/kcmil in mm ²	Nearest Standard Metric Cond. mm ²
22	0.35	0.50
20	0.52	0.50
18	0.82	1.00
16	1.31	1.50
14	2.08	2.50
12	3.31	4
10	5.26	6
8	8.37	10
6	13.30	16
4	21.15	25
2	33.62	35
1	42.41	50
1/0	53.49	50
2/0	67.43	70
3/0	85.01	95
4/0	107.2	120
250	126.7	120
300	152.0	150
350	177.3	185
400	202.7	240
500	253.4	240
600	304.0	300
750	380.0	400
800	405.4	400
1000	506.7	500

