36-517

Type SHD-GC 3/C
Mold-cured CPE Jacket • 8000 Volts

Conductors
Flexible tinned copper

Ground Check Conductor[2]
Flexible tinned copper with yellow polypropylene insulation

Strand Shield
Semi-conducting layer

Ground Wires
Flexible tinned copper

Insulation
90°C ethylene-propylene rubber (EPR)

Insulation Shielding
Semi-conducting tape

Jacket[3]
Reinforced mold-cured thermosetting Chlorinated Polyethylene (CPE) Jacket. Cable identification via permanent marking.

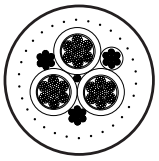
Insulation Shielding
Tinned copper and color coded nylon braid

Assembly
Taped core

See Page 34 for jacket color options.

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

See Page 34 for Tiger Stripe options



Round-shaped cross-section

Application

Heavy duty high voltage portable power cable for use in circuits not exceeding the rated voltage. These cables are used for heavy mobile equipment such as drag lines, shovels, dredges, drills and for power feeders. Recommended maximum continuous conductor temperature in 90°C.

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.

Photo courtesy Bucyrus

Ratings & Approvals

- Mine Safety & Health Administration 184-MSHA.
- Pennsylvania Department of Environmental Protection P-184.
- Insulated Cable Engineers Association S-75-381. Design standard for mining cables
- Natural Resources Canada Certification No. 910.
  Type SHD-GC, SHD-BGC up to 25kV
  Type W, G, G-GC, G-BGC up to 2kV
- Canadian Standards Association
  File 82346, FT1, FT5, -50°C
  CSA Phase Color ID available on MTO
  Type SHD-GC, SHD-BGC up to 25kV
  Type W, G, G-GC, G-BGC up to 2kV

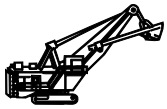
AmerCable INCORPORATED

36-517 • Type SHD-GC • CPE Jacket • 8000 Volts

36-517-	Power Conductors			Grounding Conductors		Jacket Thickness mils	Nominal Outside Dimensions in.	Approx. Weight lbs. per 1,000 ft.	Ampacity [1] 40°C Ambient Temp
	Size AWG	No. of Wires per Conductor	Insulation Thickness mils	Size AWG	No. of Wires per Conductor[2]				
004	4	259	150	8	133	205	1.94	2180	122
002	2	259	150	6	133	220	2.12	2830	159
001	1	259	150	5	133	220	2.21	3350	184
010	1/0	266	150	4	259	220	2.32	3590	211
020	2/0	323	150	3	259	235	2.46	4190	243
030	3/0	418	150	2	259	250	2.62	5075	279
040	4/0	532	150	1	259	250	2.75	5660	321
250	250	627	150	1/0	266	250	2.89	6740	355
350	350	888	150	2/0	323	280	3.20	8460	435
500	500	1221	150	4/0	532	295	3.56	10700	536

Primary Usage Recommendation


Dragline


Loading Shovel


Blast Hole Driller

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

[2] **Ground Check Conductor** – 8 AWG (minimum 133 strand 7x19) ground check conductor on 4 AWG through 4/0 AWG cable.
6 AWG (minimum 133 strand 7x19) ground check conductor on 250 kcmil and larger cable.

[3] **Jacket** – CPE jacket. Black CPE is standard. Colored CPE available upon request. See page 34 for color options.

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

Photo courtesy P&H

AWG/Metric Cross Reference

AWG/ kcmil Size	Area of AWG/kcmil in mm²	Nearest Standard Metric Cond. mm²
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

AmerCable ISO 9001