

36-503/36-515

# Tiger® Brand Type SHD-GC

## Mold-cured Jacket • 2000 Volts • 90°C

### Conductors

Flexible tinned copper

### Ground Check Conductor<sup>2</sup>

Flexible tinned copper with yellow polypropylene insulation

### Ground Wires

Flexible tinned copper

### Insulation

90°C ethylene-propylene rubber (EPR)

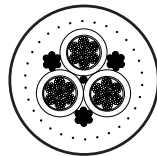
### Separator Tape

### Insulation

90°C ethylene-propylene rubber (EPR)

### Jacket<sup>1</sup>

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



Round-shaped cross-section

## Application

Tiger® Brand Cables are designed to provide safe, reliable performance on cable reeler and festoons operating worldwide at temperatures from -50°C to +50°C at speeds up to 600 feet/minute. These three conductor cables are designed for use with monspiral, level wind and random wind reelers on gantry cranes, container cranes, log handling cranes, stacker/reclaimers and other similar lifting equipment. They are suitable for outdoor use in ports, shipyards, lumber mills, steel mills and mines.

## Features

- Extra flexible, tinned, rope stranded conductors used for maximum flexibility and long life.
- Two bare grounds are used giving a total cross sectional area equal to at least 60% of the power conductor.
- Ground check is insulated with abrasion and kink resistant polypropylene to maximize performance and ensure maximum circuit integrity.
- An Extra Heavy Duty Jacket is applied in two layers. Made-to-order cables will have an aramid reinforcing twine between the layers and a pure integral fill jacket for maximum torsion resistance. AmerCable CPE rubber has excellent resistance to abrasion, weather and mechanical damage.

## Ratings & Specifications

- Mine Safety & Health Administration 184-MSHA.
- Pennsylvania Department of Environmental Protection P-184.
- ICEA S-75-381/NEMA WC-58  
Design standard for mining cables
- Natural Resources Canada Certification No. 910.  
Type SHD-GC, SHD-BGC up to 25kV
- Canadian Standards Association File 82346, FT1, FT5, -50°  
Type SHD-GC, SHD-BGC up to 25kV

### 36-503 • Type SHD-GC 3/C • 2000 Volts • 90°C

36-503-	Power Conductors		Ground Conductors		Nominal Outside Diameter in.	Approx. Weight lbs. per 1,000 ft.	Ampacity <sup>3</sup> 30°C Ambient Temp
	Size AWG	No. of Wires per Conductor	Size AWG	No. of Wires per Conductor			
006	6	133	10	49	1.29	1160	102
004	4	259	8	133	1.40	1490	134
002	2	259	6	133	1.59	2000	175
001	1	259	5	133	1.76	2450	202
010	1/0	266	4	259	1.86	2840	232
020	2/0	323	3	259	2.00	3400	267
030	3/0	418	2	259	2.13	3680	306
040	4/0	532	1	259	2.31	4860	353
250	250	627	1/0	266	2.51	5950	390
350	350	888	2/0	323	2.81	7400	478
500	500	1221	4/0	532	3.19	10100	589

### 36-515 • Type SHD-GC 3/C • 5000 Volts • 90°C

36-515-	Power Conductors		Ground Conductors		Nominal Outside Diameter in.	Approx. Weight lbs. per 1,000 ft.	Ampacity <sup>3</sup> 30°C Ambient Temp
	Size AWG	No. of Wires per Conductor	Size AWG	No. of Wires per Conductor			
006	6	133	10	49	1.56	1560	102
004	4	259	8	133	1.68	1920	134
002	2	259	6	133	1.87	2500	175
001	1	259	5	133	1.95	2860	202
010	1/0	266	4	259	2.08	3390	232
020	2/0	323	3	259	2.20	3830	267
030	3/0	418	2	259	2.36	4418	306
040	4/0	532	1	259	2.50	5300	353
250	250	627	1/0	266	2.69	6450	390
350	350	888	2/0	323	2.95	7880	478
500	500	1221	4/0	532	3.31	10440	589

<sup>1</sup> **Jacket** – Black CPE is standard. Colored CPE available upon request.

<sup>2</sup> **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.

<sup>3</sup> **Ampacity** – Based on continuous duty at 90°C conductor temperature.

**Tolerances** – +8%/- 5% of nominal outside diameter on 5000 Volt cables  
± 5% of nominal outside diameter on 2000 Volt cables

36-517/36-519

# Tiger® Brand Cable • Type SHD-GC

## 8-15kV • 90°C

### Conductors

Flexible tinned copper

### Ground Check Conductor<sup>2</sup>

Flexible tinned copper with yellow polypropylene insulation

### Strand Shield

Semi-conducting layer

### Ground Wires

Flexible tinned copper

### Assembly

Pure integral fill

### Jacket<sup>1</sup>

Two layer reinforced mold-cured chlorinated polyethylene (CPE)

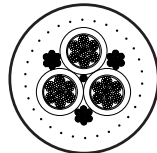
### Separator Tape

### Insulation Shielding

Tinned copper and color coded nylon braid

### Insulation

90°C ethylene-propylene rubber (EPR)



Round-shaped cross-section

## Ratings & Specifications

- Mine Safety & Health Administration 184-MSHA.
- Pennsylvania Department of Environmental Protection P-184.
- ICEA S-75-381/NEMA WC-58  
Design standard for mining cables
- Natural Resources Canada Certification No. 910.  
Type SHD-GC, SHD-BGC up to 25kV
- Canadian Standards Association File 82346, FT1, FT5, -50°  
Type SHD-GC, SHD-BGC up to 25kV

## Application

Tiger® Brand Cables are designed to provide safe, reliable performance on cable reels and festoons operating worldwide at temperatures from -50°C to +50°C at speeds up to 600 feet/minute. These three conductor cables are designed for use with monospiral, level wind and random wind reels on gantry cranes, stacker/reclaimers and other similar lifting equipment. They are suitable for outdoor use in ports, shipyards, lumber mills, steel mills and mines.

## Features

- Extra flexible, tinned, rope stranded conductors used for maximum flexibility and long life.
- Two bare grounds are used giving a total cross sectional area equal to at least 60% of the power conductor.
- Ground check is insulated with abrasion and kink resistant polypropylene to maximize performance and ensure maximum circuit integrity.
- An Extra Heavy Duty Jacket is applied in two layers. Make-to-order cables (MTO) will have an Aramid reinforcing twine between the layers and a pure integral fill jacket for maximum torsion resistance. AmerCable CPE rubber has excellent resistance to abrasion, weather and mechanical damage.



## 36-517 • Type SHD-GC 3/C • 8-15kV • 90°C

Power Conductors			Ground Conductors		Nominal Outside Diameter (in.)	Approx. Weight lbs. per 1,000 ft.	Ampacity <sup>3</sup> 30°C Ambient Temp
36-517-	Size AWG	Power Conductor Diameter (in.)	Size AWG/kcmil	Ground Conductor Diameter (in.)			
004	4	0.259	8	0.164	1.94	2180	134
002	2	0.321	6	0.204	2.12	2830	175
001	1	0.366	5	0.238	2.21	3350	202
010	1/0	0.413	4	0.259	2.32	3590	232
020	2/0	0.468	3	0.291	2.46	4190	267
030	3/0	0.518	2	0.321	2.62	5075	306
040	4/0	0.584	1	0.366	2.75	5660	353
250	250	0.634	1/0	0.413	2.89	6740	390
350	350	0.757	2/0	0.468	3.20	8460	478
500	500	0.888	4/0	0.584	3.56	10700	589

## 36-519 • Type SHD-GC 3/C • 8-15kV • 90°C

Power Conductors			Ground Conductors		Nominal Outside Diameter (in.)	Approx. Weight lbs. per 1,000 ft.	Ampacity <sup>3</sup> 30°C Ambient Temp
36-519-	Size AWG	Power Conductor Diameter (in.)	Size AWG/kcmil	Ground Conductor Diameter (in.)			
002	2	0.321	6	0.204	2.42	3500	180
001	1	0.366	5	0.238	2.52	4080	205
010	1/0	0.413	4	0.259	2.64	4610	236
020	2/0	0.468	3	0.291	2.73	4890	270
030	3/0	0.518	2	0.321	2.90	5589	311
040	4/0	0.584	1	0.366	3.05	6820	357

<sup>1</sup> **Jacket** – Black CPE is standard. Colored CPE available upon request.

<sup>2</sup> **Ground Check Conductor** –

8 AWG ground check conductor on 6 AWG through 4/0 AWG cable.

6 AWG ground check on 250 kcmil and larger cable.

<sup>3</sup> **Ampacity** – Based on continuous duty at 90°C conductor temperature.

**Tolerances** – +8%/±5% of nominal outside diameter

36-442

# Tiger® Brand Cable • Type G-GC

## 2000 Volts • 90°C

### Conductors

Extra flexible tinned rope stranded copper conductors

### Ground Check Conductor<sup>2</sup>

Flexible tinned copper with yellow polypropylene insulation

### Ground Wires

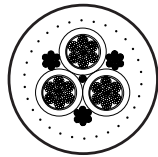
Extra flexible tinned rope stranded copper conductors with no covering

### Insulation

EPDM (EPR) suitable for continuous operation at 90°C. Ozone Resistant

### Jacket<sup>1</sup>

Two layer reinforced mold-cured chlorinated polyethylene (CPE)



Round-shaped cross-section

## Ratings & Specifications

- Mine Safety & Health Administration 184-MSHA.
- Pennsylvania Department of Environmental Protection P-184.
- ICEA S-75-381/NEMA WC-58  
Design standard for mining cables
- Natural Resources Canada Certification No. 910.  
Type SHD-GC, SHD-BGC up to 25kV
- Canadian Standards Association File 82346, FT1, FT5, -50°  
Type SHD-GC, SHD-BGC up to 25kV

## Application

Tiger® Brand Cables are designed to provide safe, reliable performance on cable reelers and festoon systems operating worldwide at temperatures from -50°C to +50°C at speeds up to 750 feet/minute. These three conductor cables are designed for use with monospiral, level wind, random wind reelers and festoon tracks on gantry cranes, container cranes, log handling cranes, stacker/reclaimers and other similar lifting equipment. They are suitable for outdoor use in ports, shipyards, lumber mills, steel mills and mines.

## Features

- Extra flexible, tinned, rope stranded conductors used for maximum flexibility and long life.
- Two bare grounds are used giving a total cross sectional area equal to at least 60% of the power conductor.
- Ground Check is insulated with abrasion and kink resistant polypropylene to maximize performance and ensure maximum circuit integrity.
- An Extra Heavy Duty Jacket is applied for maximum abrasion, mechanical and weather protection. The pure integral fill inner jacket gives resistance to torsion and longitudinal movement of the components under the jacket.



## 36-442 • Type G-GC • 2000 Volts • 90°C

36-442-	Power Conductors	Ground Conductors	Nominal Outside Diameter in.	Approx. Weight lbs. per 1,000 ft.	Ampacity <sup>3</sup> 30°C Ambient Temp
	Size AWG/kcmil	Size AWG			
008INT	8	10	0.97	600	64
006INT	6	10	1.05	750	86
004INT	4	8	1.19	1070	114
002INT	2	7	1.34	1480	151
001INT	1	6	1.51	1890	177
010INT	1/0	5	1.65	2340	204
020INT	2/0	4	1.75	2750	236
030INT	3/0	2	1.89	3777	273
040INT	4/0	2	2.04	3980	315
250INT	250	2	2.39	5000	352
350INT	350	1/0	2.68	6750	433
500INT	500	2/0	3.03	8900	535

<sup>1</sup> **Jacket** – Black CPE is standard. Colored CPE jackets available upon request.

<sup>3</sup> **Ampacity** – Based on continuous duty at 90°C conductor temperature.

<sup>2</sup> **Ground Check Conductor** – 10 AWG ground check conductor on 8 AWG through 2 AWG cable.

8 AWG ground check conductor on 1 AWG through 4/0 AWG cable.

6 AWG ground check conductor on 250 kcmil and larger cable.

**Tolerances** – ± 0.030" 8-1 AWG  
 ± 0.040" 1/0 - 2/0 AWG  
 ± 0.050" 4/0 AWG  
 ± 0.060" 250 - 500 kcmil



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36-430

# Tiger® Brand Cable • Type W Magnet Crane • 2 Conductor • 90°C

## Conductors

Bunched strands of tinned annealed copper per ASTM B33. Stranding other than those listed in the table are available upon special order

## Insulation

ASTM D-2802. Insulation material color coded through AWG size #2. Larger sizes are coded with fabric tape wraps. One black, one white.



## Separator

A suitable separator provides for easy stripping of insulation

## Fillers

Fibrous filler provides great impact resistance and flexibility. Rubber fillers are available upon special order.

## Jacket

Flame retardant, oil and sunlight resistant Chlorinated Polyethylene (CPE). Reinforced, two layer jacket construction is used on AWG size 4/0 and larger cables. Black is standard. Consult factory for colored jackets

## Ratings & Specifications

- UL Listed as Type W
- UL Listed as Type TC
- ASTM B-33: Standard specification for tinned soft or annealed copper wire for electrical purposes
- ASTM D2802: Standard specification for ozone-resistant ethylene-alkene polymer insulation for wire and cable
- ICEA S-95-658/ NEMA WC-70: Nonshielded Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- MSHA P-184
- Flame Resistance: FT4

## Application

Tiger® Brand 600-2000 Volt two conductor cables are recommended for installations where long flex life, great flexibility, and wearability are desired. Applications include heavy duty or temporary power supply service, AC or DC, to motor or generators, portable and stationary heavy duty equipment, cranes, conveyors and other mobile equipment. They are especially recommended to supply power for magnet crane applications. They may be installed in air, in ducts, immersed in water or directly buried in the earth. However, they are not UL Type USE. For cables requiring reduced flame propagation, refer to the factory.

## Features

- Suitable for continuous operating temperatures of 90°C
- Suitable for use in festoons, suspended loops and power tracks
- Suitable for use on Payout and Retractable reels (P&R)
- Heavy Duty jacket offers excellent protection against abrasion, impact, heat, oil, flame, ozone, alkali and acids.
- Extremely flexible stranding used for increased flexibility and ease of installation
- Dual Rated 600V and 2kV

## 36-430 • Type W • Magnet Crane • 2 Conductor

Part No. 37-430-	Size AWG/ kcmil	Minimum Wires per Conductor	Nominal Insulation Thickness in.	Nominal Jacket Thickness in.	Nominal Outside Diameter in.	Approx. Weight lbs. per 1,000 ft.	Ampacity* 90°C Conductor 30°C Ambient Temp
008	8	133	0.060	0.109	0.830	369	74
006	6	133	0.060	0.109	0.960	518	99
004	4	133	0.060	0.109	1.080	715	130
002	2	259	0.060	0.141	1.280	1045	174
010	1/0	266	0.080	0.156	1.560	1464	234
020	2/0	342	0.080	0.156	1.660	1788	271
040	4/0	532	0.080	0.172	1.973	2530	361
250	250	627	0.095	0.165	2.100	2664	402
350	350	888	0.095	0.176	2.360	3854	495
500	500	1221	0.095	0.214	2.700	5191	613

\* Ampacity is calculated with a 90°C conductor temperature and 30°C ambient air, per 1999 NEC, Table 400-5(B)

Cable diameters and weights are subject to +/- 5% manufacturing tolerance. Sizes 8 awg through 1/0 are labeled "MAGNET CRANE CABLE"

**A full line of UL Listed Type G cables with grounding conductors is available. Consult factory.**



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