

36-431

# Tiger® Brand Cable • Type W 2000 Volts • 3 Conductor • 90°C

## Conductors

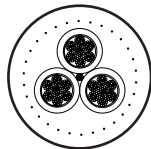
Extra flexible tinned rope stranded copper conductors

## 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

## Application

Tiger® Brand Cables are designed to provide safe, reliable performance on cable reeler 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.
- 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.

## 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 W, G, G-GC, G-BGC up to 2kV
- Canadian Standards Association File 82346,  
FT1, FT5, -50°  
Type W, G, G-GC, G-BGC up to 2kV
- NEC 1999  
Listed and labeled per article 400





## 36-431 • Type W • 2000 Volts • 3 Conductor

Power Conductors			Nominal Outside Diameter in.	Approx. Weight lbs. per 1,000 ft.	Ampacity <sup>2</sup> 90°C Conductor 30°C Ambient Temp
36-431-	Size AWG	Insulation Thickness mils			
008	8	60	0.91	550	64
006	6	60	1.01	730	86
004	4	60	1.17	1020	114
002	2	60	1.34	1430	151
001	1	80	1.51	1800	177
010	1/0	80	1.65	2140	204
020	2/0	80	1.75	2580	236
030	3/0	80	1.89	3800	273
040	4/0	80	2.04	2922	315

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

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

<sup>2</sup> **Ampacity** – Based on continuous duty at 90°C conductor temperature.

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

36-432

# Tiger® Brand Cable • Type W 2000 Volts • 4 Conductor • 90°C

## Conductors

Extra flexible tinned rope stranded copper conductors

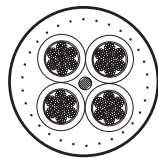


## Insulation

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

## 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 four 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.
- 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.

## 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 W, G, G-GC, G-BGC up to 2kV
- Canadian Standards Association File 82346,  
FT1, FT5, -50°  
Type W, G, G-GC, G-BGC up to 2kV
- NEC 1999  
Listed and labeled per article 400



## 36-432 • Type W • 2000 Volts • 4 Conductor

Power Conductors			Nominal Outside Diameter in.	Approx. Weight lbs. per 1,000 ft.	Ampacity <sup>2</sup> 90°C Conductor 30°C Ambient Temp
36-432-	Size AWG	Insulation Thickness mils			
008	8	60	0.99	670	59
006	6	60	1.10	890	79
004	4	60	1.27	1250	102
002	2	60	1.48	1800	134
001	1	80	1.68	2270	157
010	1/0	80	1.79	2680	181
020	2/0	80	1.93	3200	211
030	3/0	80	2.07	3627	243
040	4/0	80	2.26	4650	280

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

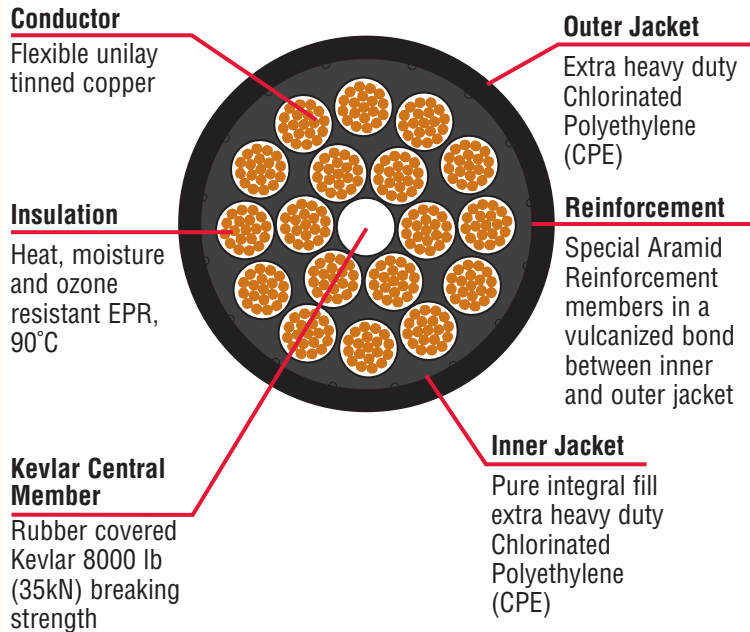
**Tolerances** – ± 0.030" 8-1 AWG  
 ± 0.040" 1/0 - 2/0 AWG  
 ± 0.050" 4/0 AWG

<sup>2</sup> **Ampacity** – Based on continuous duty at 90°C conductor temperature.

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

# CraneMAX Spreader Cable

## 600 Volts • High Strength • High Speed



### Features

- Extra flexible unilay tinned copper conductors for maximum flexibility and long life.
- Individual conductors are insulated with a very flexible, tough thermoset Ethylene-Propylene Rubber (EPDM).
- The Inner Jacket is Extra Heavy Duty CPE, applied in a pure integral fill to lock in the conductors to prevent twisting and corkscrewing.
- A specially designed reinforcing braid of Aramid fibers is placed in a vulcanized bond between the inner and outer jacket. This unique design reduces the tensile load in the conductors and allows for extended unsupported lengths.
- The unique combination of design features (very flexible conductors, pure integral fill, special Aramid fiber reinforcing braid encapsulated in an extra heavy duty weather resistant thermoset jacket) gives CraneMAX Spreader Cables a high degree of resistance to torsion and extremely high tensile strength and shock load.
- CraneMAX Spreader Cables are available in either 18 or 36 conductor versions, covering a wide range of spreader operations. Other designs are available on special order.

### Application

AmerCable's CraneMAX Spreader cables are designed to deliver safe trouble free performance on vertical cable reels at temperatures from -40° to +50°C at speeds up to 800 ft/min and unsupported vertical heights up to 200 ft. These multi-conductor cables are especially designed for use with monospiral reels on container cranes, log handling cranes, gantry cranes, stacker/reclaimers and other similar lifting equipment. They are suitable for outdoor use in ports, shipyards, lumber mills, steel mills and mines.

### Ratings & Specifications

- ASTM B-172: Standard Specification for Flexible Stranding
- ASTM B-33: Standard Specification for Tinned Soft or Annealed Copper Wire
- Materials per ICEA S-75-381/NEMA WC-58

### 36-599 • 600V • High Strength • High Speed

Part No. 36-599-	Conductor Size AWG/mm <sup>2</sup>	Number of Conductors	Nominal Outside Diameter in.	Approx. Cable Wt. lbs./1000 ft.	Maximum Tensile Load lbs.	Max. Shock Load lbs.	Max. Unsupported Height ft.
114	14/2.5	18	0.95	649	1400	3900	975
214	14/2.5	24	1.05	717	1620	4550	950
314	14/2.5	36	1.22	1160	1800	5050	900
414	14/2.5	44	1.32	1585	2090	5800	775
112	12/4	18	1.04	868	1485	4000	975
212	12/4	24	1.19	1091	1700	4750	975
312	12/4	36	1.36	1590	1875	5200	900
412	12/4	44	1.46	1861	2100	8000	775

Cable will withstand maximum shock load but some reduction in service life may occur.

