



FRACKING POWER CABLES



AmerCable
Systems

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AMERCABLE SYSTEMS

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AMERCABLE IS COMMITTED TO HELPING YOUR FRACKING OPERATION BE SAFER AND MORE PRODUCTIVE

AmerCable provides outstanding engineering support, cable products and customer service to help keep your traditional or electric hydraulic fracturing operation running smoothly. **AmerCable Systems** is the industry leader in flexible, dynamic portable power connectivity solutions. Order your cables with factory installed couplers or terminations and you're ready to power up!



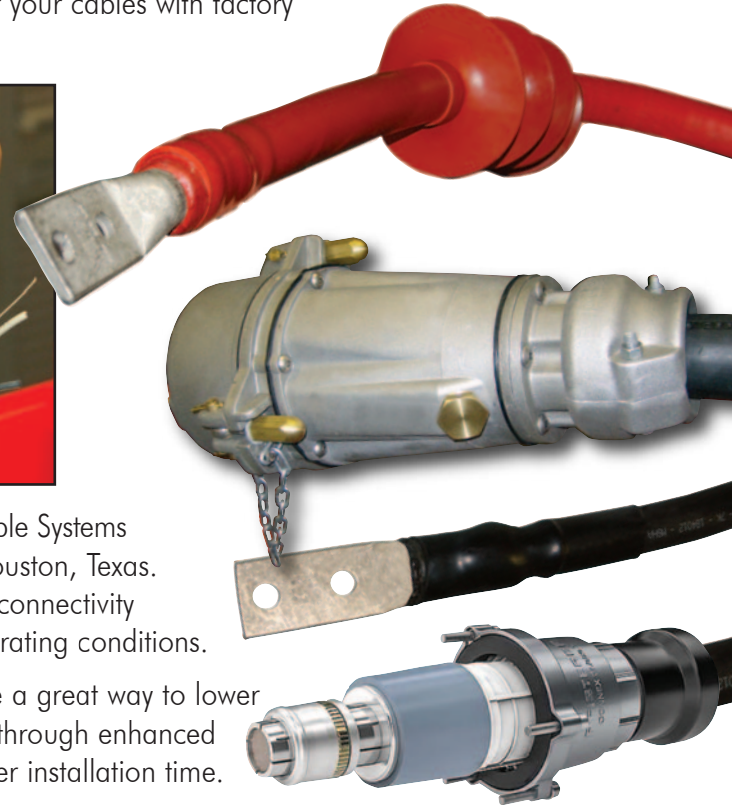
FACTORY INSTALLED CABLE ASSEMBLIES

Factory Installed Cable Assemblies from AmerCable Systems are produced at our manufacturing facility in Houston, Texas. Our highly experienced team produces reliable connectivity solutions that perform in your harshest operating conditions.

Factory prepared cable assemblies are a great way to lower your overall cable connectivity costs through enhanced reliability, reduced handling and faster installation time.



MEDIUM VOLTAGE
TJB
Cavotec
Pfisterer
LOW VOLTAGE
Amphenol





36-503

TYPE SHD-GC CPE JACKET • 2000 VOLTS



Conductors

Flexible tinned copper

Ground Check Conductor²

Flexible tinned copper
with yellow polypropylene insulation

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.
Black jacket is standard.
Other colors available.



APPLICATION

Heavy duty portable power cable for use in circuits not exceeding 2,000 volts. Designed for applications such as drills, conveyors, pumps and mobile equipment where grounding conductors, a ground check conductor and metallic shielding are required. Recommended maximum continuous conductor temperature is 90°C. Suitable for shallow water submersion.

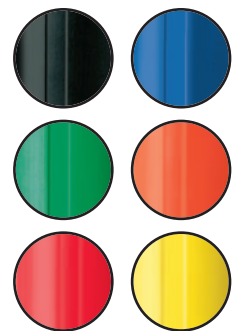
Tiger® Brand Cables meet or exceed ICEA Standards S-75-381/NEMA WC-58, ASTM B-172 and B-33.

RATINGS & APPROVALS

- 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
- CSA Rated TC-ER
- Suitable for direct burial
- RETIE

36-503-	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	70	10	49	155	1.29	1160	93
004	4	259	70	8	133	155	1.40	1490	122
002	2	259	70	6	133	170	1.59	2000	159
001	1	259	80	5	133	190	1.76	2450	184
010	1/0	266	80	4	259	190	1.86	2840	211
020	2/0	323	80	3	259	205	2.00	3400	243
030	3/0	418	80	2	259	205	2.13	3680	279
040	4/0	532	80	1	259	220	2.31	4860	321
250	250	627	95	1/0	266	220	2.51	5950	355
350	350	888	95	2/0	323	235	2.81	7400	435
500	500	1221	95	4/0	532	265	3.19	10100	536

CPE JACKET COLORS



Color/Stripe
Combinations
Also Available
For CPE
Jackets

¹ Jacket – CPE jacket. Black CPE is standard. Colored CPE available upon request.

² Ground Check Conductor – 10 AWG (minimum 49 strand 7x7) ground check conductor on 8 AWG through 2 AWG cable.

8 AWG (minimum 133 strand 7x19) ground check conductor on 1 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 – ± 5% of nominal outside diameter



36-502

TYPE SHD-GC TPU JACKET • 2000 VOLTS



**AmerCable
Systems**

Conductors

Flexible tinned copper

Ground Check Conductor²

Flexible tinned copper
with yellow polypropylene
insulation

Ground Wires

Flexible tinned copper

Insulation

90°C ethylene-propylene
rubber (EPR)

Separator Tape

Jacket¹

Thermoplastic Polyurethane
(TPU) Jacket.
Cable identification via
permanent marking.
Black jacket is standard.
Other colors available.



APPLICATION

Heavy duty portable power cable for use in circuits not exceeding 2,000 volts. Designed for applications such as drills, conveyors, pumps and mobile equipment where grounding conductors, a ground check conductor and metallic shielding are required. Recommended maximum continuous conductor temperature is 90°C. Suitable for shallow water submersion.

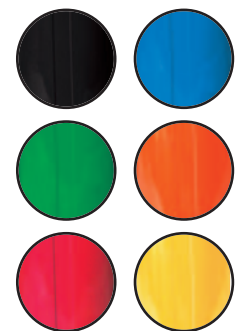
Tiger® Brand Cables meet or exceed ICEA Standards S-75-381/NEMA WC-58, ASTM B-172 and B-33.

RATINGS & APPROVALS

- 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

36-502-	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	70	10	49	155	1.29	1069	93
004	4	259	70	8	133	155	1.40	1295	122
002	2	259	70	6	133	170	1.59	1778	159
001	1	259	80	5	133	190	1.76	2163	184
010	1/0	266	80	4	259	190	1.86	2508	211
020	2/0	323	80	3	259	205	2.00	3001	243
030	3/0	418	80	2	259	205	2.13	3470	279
040	4/0	532	80	1	259	220	2.31	4192	321
250	250	627	95	1/0	266	220	2.51	5213	355
350	350	888	95	2/0	323	235	2.81	6824	435
500	500	1221	95	4/0	532	265	3.19	9014	536

TPU JACKET COLORS



¹ Jacket – Standard jacket is black.

² Ground Check Conductor – 10 AWG (minimum 49 strand 7x7) ground check conductor on 8 AWG through 2 AWG cable.

8 AWG (minimum 133 strand 7x19) ground check conductor on 1 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 – ± 5% of nominal outside diameter



36-515

TYPE SHD-GC CPE JACKET • 5000 VOLTS



**AmerCable
Systems**

Conductors

Flexible tinned copper

Ground Check Conductor²

Flexible tinned copper with
yellow polypropylene insulation

Strand Shield

Semi-conducting layer

Ground Wires

Flexible tinned copper

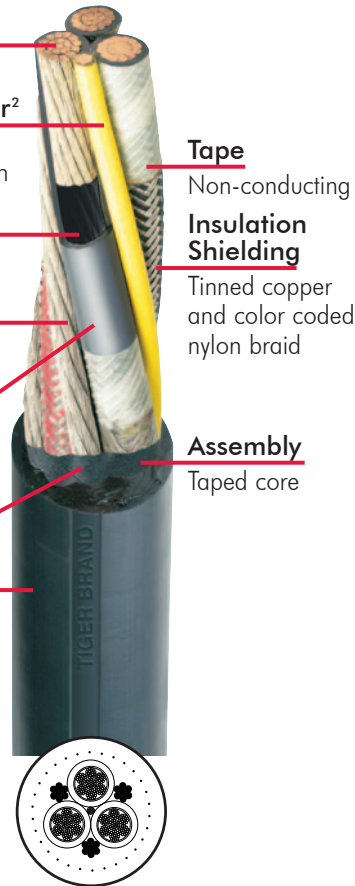
Insulation

90°C ethylene-propylene
rubber (EPR)

Separator Tape

Jacket¹

Reinforced mold-cured
thermosetting Chlorinated
Polyethylene (CPE) Jacket.
Cable identification
via permanent marking.
Black jacket is standard.
Other colors available.



APPLICATION

Heavy duty portable power cable for use in circuits not exceeding 5,000 volts. Designed for applications such as drills, conveyors, pumps and mobile equipment where grounding conductors, a ground check conductor and metallic shielding are required. Recommended maximum continuous conductor temperature is 90°C. Suitable for shallow water submersion.

Tiger® Brand Cables meet or exceed ICEA Standards S-75-381/NEMA WC-58, ASTM B-172 and B-33.

RATINGS & APPROVALS

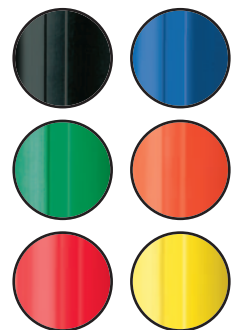
- Insulated Cable Engineers Association S-75-381/ NEMA WC-58. Design standard for mining cables.
- Canadian Standards Association C22.2 No. 96. File 82346, FT1, FT5, -50°C. CSA Phase Color ID available on Type SHD-GC, SHD-BGC up to 25kV. SHD-GC meets FT4 requirements
- CSA Rated TC-ER
- Suitable for direct burial
- RETIE

AVAILABLE IN 5kV

VFD

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

CPE JACKET COLORS



Color/Stripe
Combinations
Also Available
For CPE
Jackets

¹ Jacket – CPE jacket. Black CPE is standard. Colored CPE available upon request.

² Ground Check Conductor – 10 AWG (minimum 49 strand 7x7) ground check conductor on 8 AWG through 2 AWG cable.

8 AWG (minimum 133 strand 7x19) ground check conductor on 1 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



36-514

TYPE SHD-GC 3/C TPU JACKET • 5000 VOLTS



**AmerCable
Systems**

Conductors

Flexible tinned copper

Ground Check Conductor²

Flexible tinned copper with
yellow polypropylene insulation

Strand Shield

Semi-conducting layer

Ground Wires

Flexible tinned copper

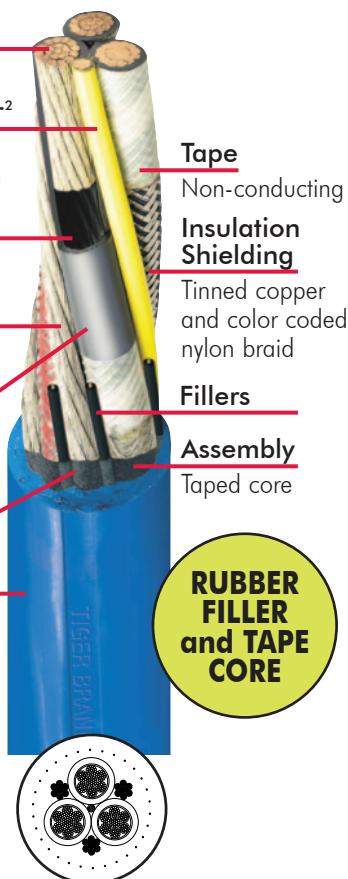
Insulation

90°C ethylene-propylene
rubber (EPR)

Separator Tape

Jacket¹

Thermoplastic Polyurethane
(TPU) Jacket.
Cable identification via
permanent marking.
Black jacket is standard.
Shown with optional
blue jacket.



**RUBBER
FILLER
and TAPE
CORE**

APPLICATION

Heavy duty portable power cable for use in circuits not exceeding 5,000 volts. Designed for applications such as drills, conveyors, pumps and mobile equipment where grounding conductors, a ground check conductor and metallic shielding are required. Recommended maximum continuous conductor temperature is 90°C. Suitable for shallow water submersion.

Tiger® Brand Cables meet or exceed ICEA Standards S-75-381/NEMA WC-58, ASTM B-172 and B-33.

RATINGS & APPROVALS

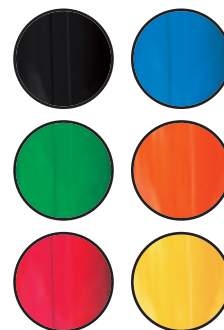
- Insulated Cable Engineers Association S-75-381/NEMA WC-58. Design standard for mining cables.
- Canadian Standards Association C22.2 No. 96. File 82346, FT1, FT5, -50°C. CSA Phase Color ID available on Type SHD-GC, SHD-BGC up to 25kV. SHD-GC meets FT4 requirements

AVAILABLE IN 5kV

VFD

36-514	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	1342	93
004	4	259	110	8	133	185	1.68	1629	122
002	2	259	110	6	133	205	1.87	2228	159
001	1	259	110	5	133	205	1.95	2447	184
010	1/0	266	110	4	259	220	2.08	2760	211
020	2/0	323	110	3	259	220	2.20	3238	243
030	3/0	418	110	2	259	235	2.36	3792	279
040	4/0	532	110	1	259	235	2.50	4548	321
250	250	627	120	1/0	266	250	2.69	5427	355
350	350	888	120	2/0	323	265	2.95	7070	435
500	500	1221	120	4/0	532	280	3.31	9407	536

TPU JACKET COLORS



¹ Jacket – Standard jacket is black.

² Ground Check Conductor – 10 AWG (minimum 49 strand 7x7) ground check conductor on 8 AWG through 2 AWG cable.

8 AWG (minimum 133 strand 7x19) ground check conductor on 1 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



36-517

TYPE SHD-GC CPE JACKET • 8000 VOLTS



**AmerCable
Systems**

Conductors

Flexible tinned copper

Ground Check Conductor²

Flexible tinned copper with
yellow polypropylene insulation

Strand Shield

Semi-conducting layer

Ground Wires

Flexible tinned copper

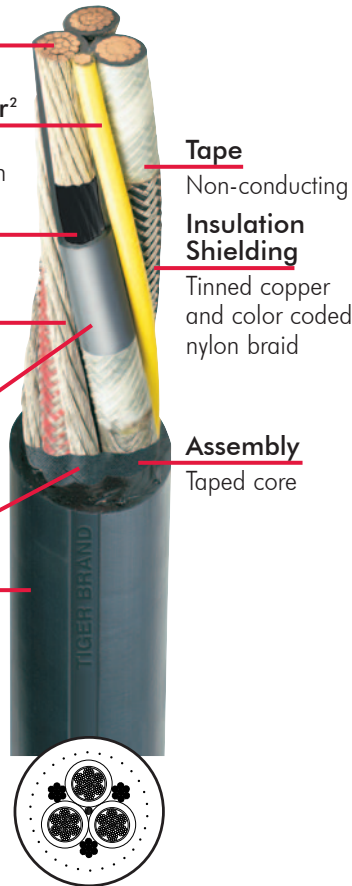
Insulation

90°C ethylene-propylene
rubber (EPR)

Separator Tape

Jacket¹

Reinforced mold-cured
thermosetting Chlorinated
Polyethylene (CPE) Jacket.
Cable identification
via permanent marking.
Black jacket is standard.
Other colors available.



APPLICATION

Heavy duty portable power cable for use in circuits not exceeding 8,000 volts. Designed for applications such as powerfeeders and heavy mobile equipment where grounding conductors, a ground check conductor and metallic shielding are required. Recommended maximum continuous conductor temperature is 90°C. Suitable for shallow water submersion.

Tiger® Brand Cables meet or exceed ICEA Standards S-75-381/NEMA WC-58, ASTM B-172 and B-33.

RATINGS & APPROVALS

- 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
- CSA Rated TC-ER
- Suitable for direct burial

AVAILABLE IN 8kV

VFD

36-517-	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 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

¹ Jacket – CPE jacket. Black CPE is standard. Colored CPE available upon request.

² Ground Check Conductor – 10 AWG (minimum 49 strand 7x7) ground check conductor on 8 AWG through 2 AWG cable.

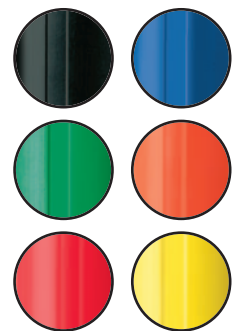
8 AWG (minimum 133 strand 7x19) ground check conductor on 1 AWG through 4/0 AWG cable.

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

CPE JACKET COLORS



Color/Stripe
Combinations
Also Available
For CPE
Jackets



36-518

TYPE SHD-GC 3/C TPU JACKET • 8000 VOLTS



**AmerCable
Systems**

Conductors

Flexible tinned copper

Ground Check Conductor²

Flexible tinned copper with
yellow polypropylene insulation

Strand Shield

Semi-conducting layer

Insulation

90°C ethylene-propylene
rubber (EPR)

Ground Wires

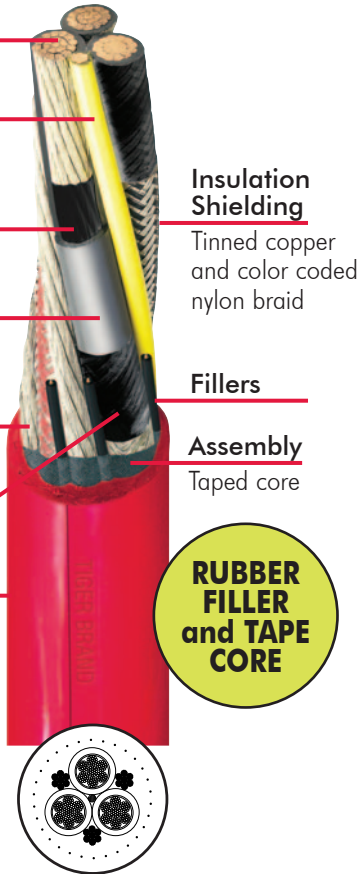
Flexible tinned copper

Insulation Shielding

Semi-conducting tape

Jacket¹

Thermoplastic Polyurethane
(TPU) Jacket.
Cable identification via
permanent marking.
Black jacket is standard.
Shown with optional
red jacket.



Insulation Shielding

Tinned copper
and color coded
nylon braid

Fillers

Assembly
Taped core

**RUBBER
FILLER
and TAPE
CORE**

APPLICATION

Heavy duty portable power cable for use in circuits not exceeding 8,000 volts. Designed for applications such as powerfeeders and heavy mobile equipment where grounding conductors, a ground check conductor and metallic shielding are required. Recommended maximum continuous conductor temperature is 90°C. Suitable for shallow water submersion.

Tiger® Brand Cables meet or exceed ICEA Standards S-75-381/NEMA WC-58, ASTM B-172 and B-33.

RATINGS & APPROVALS

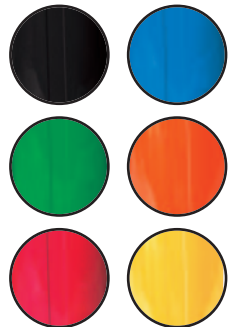
- Insulated Cable Engineers Association S-75-381/ NEMA WC-58. Design standard for mining cables.
- Canadian Standards Association C22.2 No. 96. File 82346, FT1, FT5, -50°C. CSA Phase Color ID available on Type SHD-GC, SHD-BGC up to 25kV. SHD-GC meets FT4 requirements

AVAILABLE IN 8kV

VFD

36-518-	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 ²				
004	4	259	150	8	133	205	1.94	2019	122
002	2	259	150	6	133	220	2.12	2603	159
001	1	259	150	5	133	220	2.21	2913	184
010	1/0	266	150	4	259	220	2.32	3351	211
020	2/0	323	150	3	259	235	2.46	3946	243
030	3/0	418	150	2	259	250	2.62	4582	279
040	4/0	532	150	1	259	250	2.75	5321	321
250	250	627	150	1/0	266	250	2.89	6101	355
350	350	888	150	2/0	323	280	3.20	7696	435
500	500	1221	150	4/0	532	295	3.56	10199	536

TPU JACKET COLORS



¹ Jacket – Standard jacket is black.

² Ground Check Conductor – 10 AWG (minimum 49 strand 7x7) ground check conductor on 8 AWG through 2 AWG cable.

8 AWG (minimum 133 strand 7x19) ground check conductor on 1 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



36-519

TYPE SHD-GC CPE JACKET • 15000 VOLTS



**AmerCable
Systems**

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

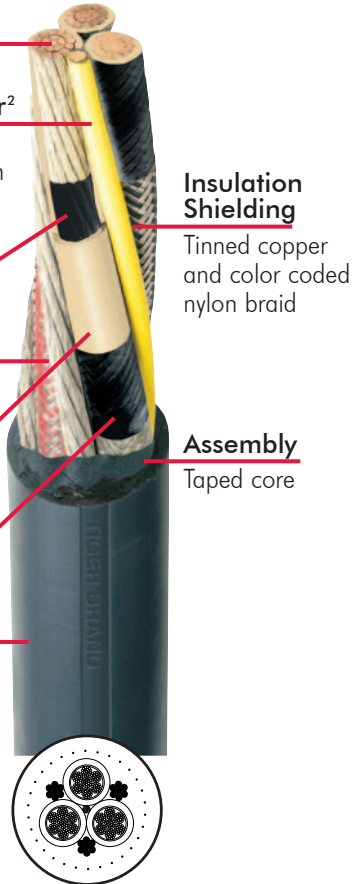
90°C ethylene-propylene
rubber (EPR)

Insulation Shielding

Semi-conducting tape

Jacket¹

Reinforced mold-cured
thermosetting Chlorinated
Polyethylene (CPE) Jacket.
Cable identification
via permanent marking.
Black jacket is standard.
Other colors available.



APPLICATION

Heavy duty portable power cable for use in circuits not exceeding 15,000 volts. Designed for applications such as powerfeeders and heavy mobile equipment where grounding conductors, a ground check conductor and metallic shielding are required. Recommended maximum continuous conductor temperature is 90°C. Suitable for shallow water submersion.

Tiger® Brand Cables meet or exceed ICEA Standards S-75-381/NEMA WC-58, ASTM B-172 and B-33.

RATINGS & APPROVALS

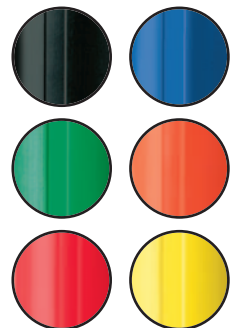
- Insulated Cable Engineers Association S-75-381/ NEMA WC-58. Design standard for mining cables.
- Canadian Standards Association C22.2 No. 96. File 82346, FT1, FT5, -50°C. CSA Phase Color ID available on Type SHD-GC, SHD-BGC up to 25kV. SHD-GC meets FT4 requirements
- CSA Rated TC-ER
- Suitable for direct burial

AVAILABLE IN 15kV

VFD

36-519-	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				
002	2	259	210	6	133	235	2.41	3500	164
001	1	259	210	5	133	235	2.52	4080	187
010	1/0	266	210	4	259	250	2.64	4610	215
020	2/0	323	210	3	259	250	2.73	4890	246
030	3/0	418	210	2	259	265	2.90	5589	283
040	4/0	532	210	1	259	265	3.05	6820	325
250	250	627	210	1/0	266	265	3.15	6960	359
350	350	888	210	2/0	323	280	3.40	9128	437
500	500	1221	210	4/0	532	280	3.68	11020	534

CPE JACKET COLORS



Color/Stripe
Combinations
Also Available
For CPE
Jackets

¹ Jacket – CPE jacket. Black CPE is standard. Colored CPE available upon request.

² Ground Check Conductor – 10 AWG (minimum 49 strand 7x7) ground check conductor on 8 AWG through 2 AWG cable.

8 AWG (minimum 133 strand 7x19) ground check conductor on 1 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



36-521

TYPE SHD-GC 3/C TPU JACKET • 15000 VOLTS



**AmerCable
Systems**

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

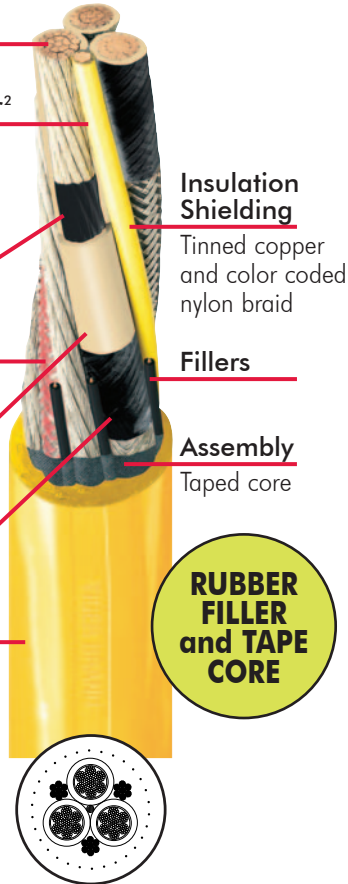
90°C ethylene-propylene
rubber (EPR)

Insulation Shielding

Semi-conducting tape

Jacket¹

Thermoplastic Polyurethane
(TPU) Jacket.
Cable identification via
permanent marking.
Black jacket is standard.
Shown with optional
yellow jacket.



APPLICATION

Heavy duty portable power cable for use in circuits not exceeding 15,000 volts. Designed for applications such as powerfeeders and heavy mobile equipment where grounding conductors, a ground check conductor and metallic shielding are required. Recommended maximum continuous conductor temperature is 90°C. Suitable for shallow water submersion.

Tiger® Brand Cables meet or exceed ICEA Standards S-75-381/NEMA WC-58, ASTM B-172 and B-33.

RATINGS & APPROVALS

- 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

AVAILABLE IN 15kV

VFD

TPU JACKET COLORS



36-521 -	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				
002	2	259	210	6	133	235	2.41	3145	164
001	1	259	210	5	133	235	2.52	3567	187
010	1/0	266	210	4	259	250	2.64	3976	215
020	2/0	323	210	3	259	255	2.73	4526	246
030	3/0	418	210	2	259	265	2.90	5231	283
040	4/0	532	210	1	259	265	3.05	6033	325
250	250	627	210	1/0	266	265	3.15	6602	359
350	350	888	210	2/0	323	280	3.40	8306	437
500	500	1221	210	4/0	532	280	3.68	10497	534

¹ Jacket – Standard jacket is black.

² Ground Check Conductor – 10 AWG (minimum 49 strand 7x7) ground check conductor on 8 AWG through 2 AWG cable.

8 AWG (minimum 133 strand 7x19) ground check conductor on 1 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



36-525

TYPE SHD-GC CPE JACKET • 25000 VOLTS



**AmerCable
Systems**

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 Shielding

Semi-conducting rubber
and semi-conductive tape

Jacket¹

Reinforced mold-cured
thermosetting Chlorinated
Polyethylene (CPE) Jacket.
Cable identification
via permanent marking.
Black jacket is standard.
Other colors available.



Insulation Shielding

Tinned copper
and color coded
nylon braid

Insulation

90°C ethylene-
propylene
rubber (EPR)

Assembly

Taped core

APPLICATION

Heavy duty portable power cable for use in circuits not exceeding 25,000 volts. Designed for applications such as powerfeeders and heavy mobile equipment where grounding conductors, a ground check conductor and metallic shielding are required. Recommended maximum continuous conductor temperature is 90°C. Suitable for shallow water submersion.

Tiger® Brand Cables meet or exceed ICEA Standards S-75-381/NEMA WC-58, ASTM B-172 and B-33.

RATINGS & APPROVALS

- 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
- CSA Rated TC-ER
- Suitable for direct burial

36-525-	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				
001	1	259	260	5	133	265	2.95	5320	191
010	1/0	266	260	4	259	265	3.05	5840	218
020	2/0	323	260	3	259	280	3.20	6550	249
030	3/0	418	260	2	259	280	3.33	6670	286
040	4/0	532	260	1	259	295	3.50	8350	327
250	250	627	260	1/0	266	295	3.54	8085	360
350	350	888	260	2/0	323	295	3.85	10040	439

¹ Jacket – CPE jacket. Black CPE is standard. Colored CPE available upon request.

² Ground Check Conductor – 10 AWG (minimum 49 strand 7x7) ground check conductor on 8 AWG through 2 AWG cable.

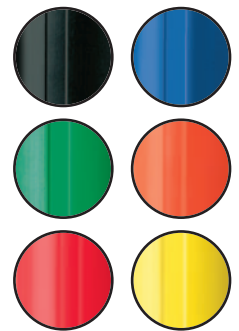
8 AWG (minimum 133 strand 7x19) ground check conductor on 1 AWG through 4/0 AWG cable.

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

CPE JACKET COLORS



**Color/Stripe
Combinations
Also Available
For CPE
Jackets**



36-526

TYPE SHD-GC 3/C TPU JACKET • 25000 VOLTS



**AmerCable
Systems**

Conductors

Flexible tinned copper

Ground Check Conductor²

Flexible tinned copper with yellow polypropylene insulation

Strand Shield

Semi-conducting layer

Insulation

90°C ethylene-propylene rubber (EPR)

Ground Wires

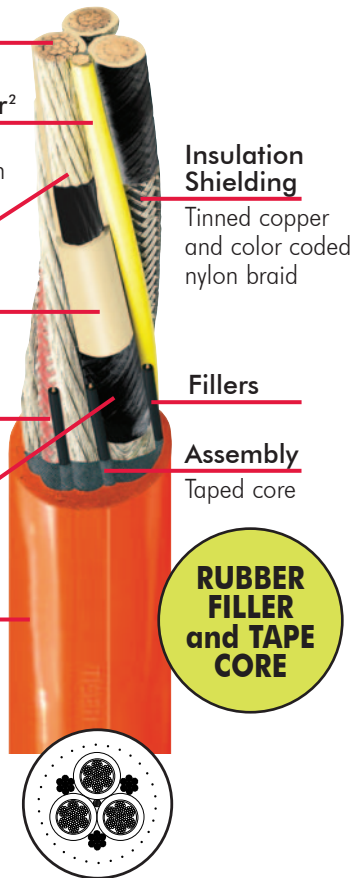
Flexible tinned copper

Insulation Shielding

Semi-conducting rubber and semi-conductive tape

Jacket¹

Thermoplastic Polyurethane (TPU) Jacket.
Cable identification via permanent marking.
Black jacket is standard.
Shown with optional orange jacket.



APPLICATION

Heavy duty portable power cable for use in circuits not exceeding 15,000 volts. Designed for applications such as powerfeeders and heavy mobile equipment where grounding conductors, a ground check conductor and metallic shielding are required. Recommended maximum continuous conductor temperature is 90°C. Suitable for shallow water submersion.

Tiger® Brand Cables meet or exceed ICEA Standards S-75-381/NEMA WC-58, ASTM B-172 and B-33.

RATINGS & APPROVALS

- 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

36-526-	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				
001	1	259	260	5	133	265	2.95	4410	191
010	1/0	266	260	4	259	265	3.05	4866	218
020	2/0	323	260	3	259	280	3.20	5560	249
030	3/0	418	260	2	259	280	3.33	6192	286
040	4/0	532	260	1	259	295	3.50	7110	327
250	250	627	260	1/0	266	295	3.54	7692	360
350	350	888	260	2/0	323	295	3.85	9608	439

¹ Jacket – Standard jacket is black.

² Ground Check Conductor – 10 AWG (minimum 49 strand 7x7) ground check conductor on 8 AWG through 2 AWG cable.

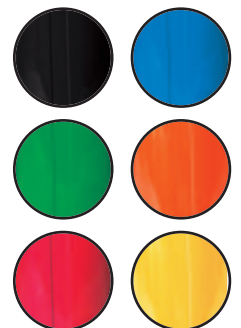
8 AWG (minimum 133 strand 7x19) ground check conductor on 1 AWG through 4/0 AWG cable.

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

TPU JACKET COLORS



37-102VFD

VFD POWER CABLE EXTRA FLEXIBLE • TYPE TC-ER

2000 VOLTS • 110°C • GEXOL® INSULATED



Power Conductors (x3)

Soft annealed flexible stranded tinned copper per IEEE 1580 Table 11.

Insulation (2kV)

Gexol® cross-linked flame retardant polyolefin, meeting the requirements for Type P of IEEE 1580 and Type X110 of UL 1309/CSA 245. Color: Gray with printed phase I.D. (Black-White-Red)

Jacket

A black, arctic grade, flame retardant, oil, abrasion, chemical and sunlight resistant thermosetting compound meeting UL 1309/CSA 245 and IEEE 1580.

Armor (Optional)

Tinned copper basket weave wire armor per IEEE 1580 and UL 1309/CSA 245.

Ground Conductors (x3)

Soft annealed flexible stranded tinned copper per IEEE 1580 Table 11. Gexol® insulated and sized per UL 1277. Color: Green

Shield

Overall tinned copper braid plus aluminum/polyester tape providing 100% coverage.

Sheath (Optional)

A black, arctic grade, flame retardant, oil, abrasion, chemical and sunlight resistant thermosetting compound meeting UL 1309/CSA 245 and IEEE 1580.

Note: For armored versions the braid is placed between the inner jacket and outer sheath where it serves as both the EMI shield and armor.

RATINGS & APPROVALS

- 110°C Temperature Rating
- Flame resistance: IEEE 1202/FT-4
- Sunlight resistant
- UL Listed as Type TC-ER (E123629)
- UL Listed as Marine Shipboard Cable: (E111461)
- United States Coast Guard: November 2, 1987 / 9304
- CSA listed as Marine Shipboard Cable (82346)

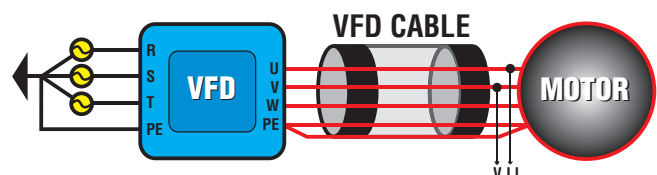
APPLICATION

A flexible, braid and foil shielded, 2kV power cable specifically engineered for use in variable frequency AC motor drive (VFD) applications.



FEATURES

- Specially engineered cable design produces a longer cable life in VFD applications.
- Overall braid plus foil shield is engineered with 100% coverage and a surface transfer impedance <50 milliohms at 10MHz to contain EMI.
- Symmetrical insulated ground conductors reduce induced voltage imbalances and carry common mode noise back to the drive.
- High strand count conductors and braid shield design is much more flexible, easier to install and more resistant to vibration than Type MC cable.
- Gexol's lower dielectric constant (standard XLPEs, EPRs and other Type P insulation materials have higher dielectric constants) reduces reflected wave peak voltage magnitudes. This allows for longer output cable distances and minimizes the effect of high frequency noise induced into the plant ground system.
- 2kV insulation thickness is used to resist the potential 2-3x reflected voltages experienced in 600V VFD applications.
- Dual certified IEEE 1580 Type P and UL 1309/CSA 245 Type X110.
- Highest ampacity ratings: ABS 100°C, DNV 95°C, LRS 95°C, Transport Canada 95°C.
- Severe cold durability: exceeds CSA cold bend/cold impact (-40°C/-35°C).
- Flame retardant: IEC 332-3 Category A and IEEE 1202.
- Optional braid armor of bronze, aluminum or tinned copper.



37-102VFD

VFD POWER CABLE EXTRA FLEXIBLE • TYPE TC-ER

2000 VOLTS • 110°C • GEXOL® INSULATED

		Unarmored			Armored & Sheathed (TS)			Grounding Conductor* Size (AWG)	NEC Ampacities		
Size AWG/kcmil	mm ²	Part No. 37-102	Nominal Diameter Inches*	Weight Lbs./1000 Ft.	Part No. 37-102	Nominal Diameter Inches*	Weight Lbs./1000 Ft.		In Free Air	In Cable Tray	In Conduit
4	21	-312VFD	1.100	925	-312TSVFD	1.262	1138	12	114	95	89
2	34	-314VFD	1.235	1421	-314TSVFD	1.392	1512	10	152	130	119
1	43	-315VFD	1.340	1517	-315TSVFD	1.509	1851	10	177	150	137
1/0	54	-316VFD	1.450	1803	-316TSVFD	1.615	2136	10	205	170	163
2/0	70	-317VFD	1.580	2120	-317TSVFD	1.792	2660	10	237	195	186
3/0	86	-318VFD	1.750	2827	-318TSVFD	1.959	3269	8	274	225	214
4/0	109	-319VFD	1.900	3416	-319TSVFD	2.101	3864	8	316	260	253
262	132	-320VFD	2.050	4210	-320TSVFD	2.258	4661	6	362	297	286
313	159	-321VFD	2.130	5105	-321TSVFD	2.353	5325	6	404	328	324
373	189	-322VFD	2.275	5521	-322TSVFD	2.483	6674	6	449	364	357
444	227	-323VFD	2.425	6440	-323TSVFD	2.634	6994	6	497	402	396
535	273	-324VFD	2.643	7547	-324TSVFD	2.931	8477	6	556	446	441
646	326	-326VFD	2.920	8916	-326TSVFD	3.178	9888	4	617	496	489
777	394	-327VFD	3.102	10909	-327TSVFD	3.510	11803	4	688	546	537

- Cable diameters are subject to a +/- 5% manufacturing tolerance
- Ampacity In Free Air: Based on 90°C conductor temperature and 30°C ambient temperature per 2008 NEC Table B.310.3
- Ampacity In Cable Tray: Based on 90°C conductor temperature and 30°C ambient temperature per 2008 NEC Table 310.16
- Ampacity In Conduit: Based on 90°C conductor temperature and 30°C ambient temperature per 2008 NEC Table B.310.1
- IEEE ampacities are based on IEEE Std. 45 with a 45°C ambient and arranged in a single bank per hanger. For those instances where cable must be double banked, the ampacities should be multiplied by 0.8.

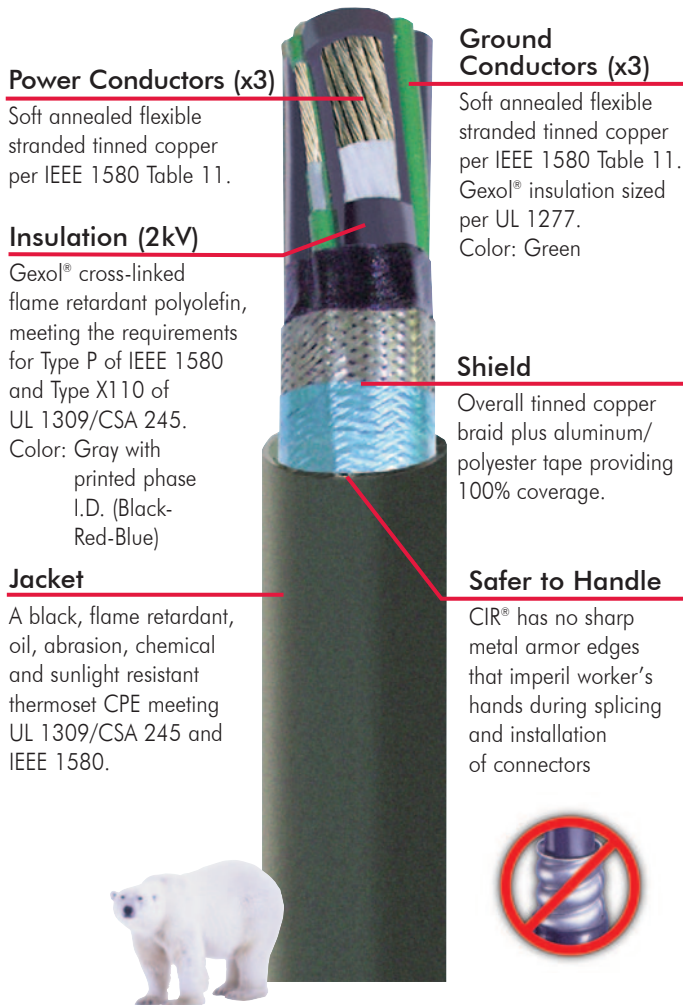
*3 Grounding Conductors – Green Insulated



37-102CIRVFD

CRUSH & IMPACT RESISTANT (CIR®) VFD POWER CABLE • TYPE TC-ER-HL*

2000 VOLTS • 90°C • GEXOL® INSULATED



Power Conductors (x3)

Soft annealed flexible stranded tinned copper per IEEE 1580 Table 11.

Insulation (2kV)

Gexol® cross-linked flame retardant polyolefin, meeting the requirements for Type P of IEEE 1580 and Type X110 of UL 1309/CSA 245. Color: Gray with printed phase I.D. (Black-Red-Blue)

Jacket

A black, flame retardant, oil, abrasion, chemical and sunlight resistant thermoset CPE meeting UL 1309/CSA 245 and IEEE 1580.

Ground Conductors (x3)

Soft annealed flexible stranded tinned copper per IEEE 1580 Table 11. Gexol® insulation sized per UL 1277. Color: Green

Shield

Overall tinned copper braid plus aluminum/polyester tape providing 100% coverage.

Safer to Handle

CIR® has no sharp metal armor edges that imperil worker's hands during splicing and installation of connectors

APPLICATION

A flexible, braid and foil shielded, 2kV power cable specifically engineered for use in variable frequency AC motor drive (VFD) applications.



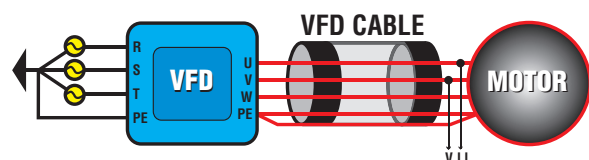
FEATURES

- Specially engineered cable design produces a longer cable life in VFD applications in severe cold environments.
- Exceeds CSA cold bend/cold impact (-40°C/-35°F)
- Brittlepoint as per ASTM D 7646-07 exceeds -65°C for Jacket and -75°C for insulation
- Overall braid and foil shield provides 100% coverage containing VFD EMI emissions.
- Symmetrical insulated ground conductors reduce induced voltage imbalances and carry common mode noise back to the drive.
- High strand count conductors and braid shield design is much more flexible, easier to install and more resistant to vibration than Type MC cable.
- Gexol's lower dielectric constant (standard XLPEs, EPRs and other Type P insulation materials have higher dielectric constants) reduces reflected wave peak voltage magnitudes. This allows for longer output cable distances and minimizes the effect of high frequency noise induced into the plant ground system.
- 2kV insulation thickness resists the repetitive 2x voltage spikes from 600V VFDs and reduces drive over current trip problems due to cable charging current.
- Passes the same stringent crush and impact testing required by UL 2225 for Type MC-HL
- Gas & vapor tight – impervious to water and air
- Smaller bend radius (up to 40% smaller) than Type MC
- Reduced tray fill compared to Type MC
- Considerably more flexible than Type MC
- Reduced installation time and cost
- Glands cost up to 50% less

CIR® RATINGS & APPROVALS

- 90°C temperature rating
- UL Listed as Marine Shipboard Cable (E111461)
- UL Listed as Type TC-ER
- UL Listed as TC-ER-HL (cables up to 1" in diameter)
- American Bureau of Shipping (ABS) (99-BT5905-X)
- Flame Retardant – IEEE 1202
- Suitable for use in Class I, Div 2 and Zone 2 environments
- Suitable for Class 1, Div 1 and Zone 1 environments (cables up to 1" in diameter)

*Cables up to 1" in diameter



37-102CIRVFD

CRUSH & IMPACT RESISTANT (CIR®) VFD POWER CABLE • TYPE TC-ER-HL*

2000 VOLTS • 90°C • GEXOL® INSULATED



TC-ER-HL

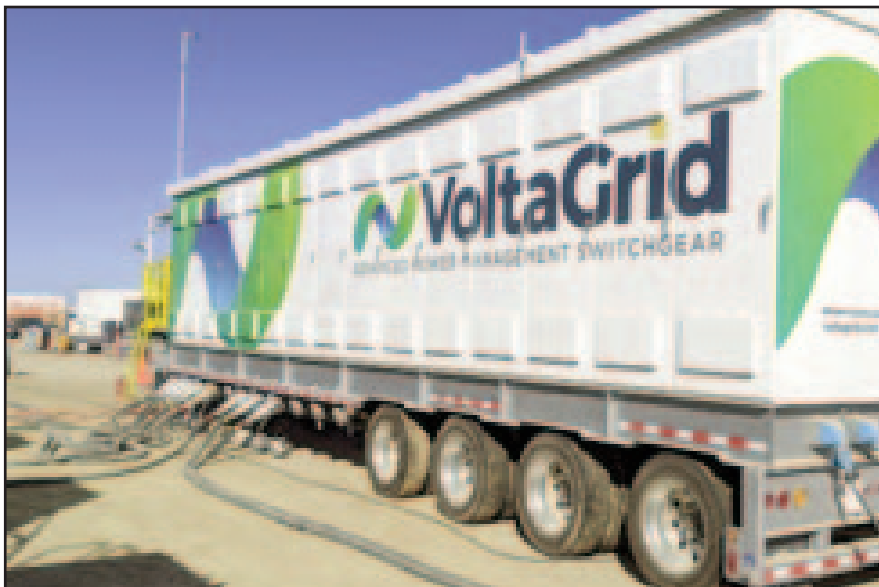
Size AWG/ kcmil	Part No. 37-102	Nominal Diameter Inches*	Weight Per 1000 Ft.	DC Resist. @ 25°C (Ohms/1k ft)	AC Resist. @ 90°C, 60 Hz (Ohms/1k ft)	Inductive Reactance (Ohms/1k ft)	Voltage Drop @ 90°C (Volts/Amp/1k ft)	Green Insulated Grounding Size (AWG)	IEEE Ampacity 90°C	NEC Ampacity 90°C	IEEE Ampacity 75°C	NEC Ampacity 75°C
14	-508CIRVFDA	0.742	283	2.907	3.635	0.040	5.073	18	24	15	20	15
12	-516CIRVFDA	0.815	378	1.826	2.283	0.038	3.199	18	29	20	24	20
10	-308CIRVFDA	0.871	473	1.153	1.441	0.036	2.032	14	38	30	32	30
8	-309CIRVFDA	0.893	553	0.708	0.885	0.037	1.263	14	48	55	41	50
6	-310CIRVFDA	1.093	797	0.445	0.556	0.033	0.804	12	65	75	54	65
4	-312CIRVFDA	1.225	929	0.300	0.376	0.031	0.552	12	83	95	70	85
2	-314CIRVFDA	1.341	1276	0.184	0.230	0.029	0.348	10	111	130	93	115
1	-315CIRVFDA	1.447	1576	0.147	0.184	0.029	0.285	10	131	145	110	130
1/0	-316CIRVFDA	1.566	2144	0.117	0.147	0.029	0.234	10	150	170	126	150
2/0	-317CIRVFDA	1.733	2144	0.093	0.117	0.028	0.192	10	173	195	145	175
4/0	-319CIRVFDA	1.874	3131	0.058	0.075	0.027	0.132	8	232	260	194	230
262	-320CIRVFDA	2.031	3875	0.048	0.063	0.027	0.115	6	273	297	228	262
313	-321CIRVFDA	2.130	4709	0.040	0.053	0.026	0.100	6	298	328	249	292
373	-322CIRVFDA	2.257	5209	0.034	0.045	0.025	0.088	6	332	364	277	322
444	-323CIRVFDA	2.400	6310	0.028	0.039	0.025	0.080	6	382	402	319	355
535	-324CIRVFDA	2.705	7193	0.024	0.033	0.026	0.072	6	407	446	340	394
646	-326CIRVFDA	2.898	9217	0.020	0.028	0.026	0.065	4	474	496	396	438
777	-327CIRVFDA	3.102	10340	0.016	0.025	0.025	0.060	4	516	546	431	483

*Cable diameters are subject to a +/- 5% manufacturing tolerance

Ampacities are based on Table 310.15 (B) (16) of the National Electrical Code (NEC) for conductors rated 90°C, in a multi-conductor cable, at an ambient temperature of 30°C. The 75°C column is provided for additional information. The ampacities shown apply to open runs of cable, installation in any approved raceway. Derating for more than three current carrying conductors within the cable is in accordance with NEC Table 310.15 (B) (3) (a). The ampacities shown also apply to cables installed in cable tray in accordance with NEC Section 392.80.

STRANDING PROFILE

Size AWG/kcmil	Size (mm ²)	Number of Strands	Uninsulated Conductor Diameter (inch)
14	2.08	19	0.074
12	3.29	19	0.093
10	5.23	37	0.113
8	8.30	133	0.159
6	13.21	133	0.201
4	21.17	259	0.255
2	35	259	0.321
1	42.52	259	0.361
1/0	50	266	0.413
2/0	66.12	323	0.455
4/0	95	532	0.584
262	120	646	0.654
313	150	777	0.720
373	185	925	0.785
444	240	1110	0.860
535	272.68	1332	0.941
646	300	1591	1.029
777	400	1924	1.132



TYPE SH MOBILE SUBSTATION POWER CABLE SINGLE-CONDUCTOR 5000 - 35000 VOLTS • 90°C

CONDUCTOR

Flexible tin-coated soft annealed bunch stranded copper meeting ASTM B-33

CONDUCTOR SHIELD

Combination semi-conducting tape and/or extruded semiconductive thermosetting material

INSULATION SHIELD

Tin-coated copper braid applied over a semiconductive tape (5-15kV). Extruded semi-conductive thermosetting material (25-35kV)

INSULATION

Heat, moisture and ozone resisting 90°C Ethylene-Propylene rubber (EPR) meeting ICEA S-75-381/NEMA WC58

JACKET

CPE meeting ICEA S-75-381/NEMA WC58.

Consult factory for availability of other jacket materials.

IDENTIFICATION

Cable shall be surface printed showing manufacturer, size, voltage rating, type and temperature rating

APPLICATION

These single-conductor portable power cables are extremely flexible and specifically designed for use on mobile substation equipment.

FEATURES

- Extremely flexible stranding for ease of bending
- The conductor shield is bonded to the insulation – providing easy, clean stripping
- Jacket is heat, oil, flame and chemical resistant
- Continuous conductor temperature 90°C
- Jackets available in voltage colors, yellow (5 & 8kV), orange (15kV), red (25 & 35kV). Consult factory for availability of other colors.

RATINGS & APPROVALS

- ASTM B-33: Standard Specification for Tinned Soft or Annealed Copper Wire for Electrical Purposes
- ICEA S-75-381/NEMA WC-58: Portable and Power Feeder Cables for Use in Mines and Similar Applications
- UL 1072 Medium Voltage Cable MV-105 (pending)



5KV SINGLE-CONDUCTOR PORTABLE POWER CABLE – TYPE SH

Part No. 37-550-	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
002	2	259	.110	.125	0.975	674	190
004	1/0	266	.110	.140	1.058	825	260
005	2/0	323	.110	.140	1.170	1039	300
007	4/0	532	.110	.155	1.300	1393	400
008	250	627	.120	.155	1.330	1477	445
022	350	888	.120	.170	1.484	1926	550
010	500	1221	.120	.190	1.700	2662	695



15KV SINGLE-CONDUCTOR PORTABLE POWER CABLE – TYPE SH

Part No. 37-550-	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
016	2	259	.210	.155	1.203	881	195
017	1/0	266	.210	.155	1.320	1147	260
018	2/0	323	.210	.155	1.350	1226	300
020	4/0	532	.210	.170	1.497	1594	400
021	250	627	.210	.170	1.547	1758	445
009	350	888	.210	.190	1.765	2364	550
024	500	1221	.210	.190	1.900	2937	685

**Order Your
Type SH Cables
Connectorized!**

*Factory installed
assemblies from
AmerCable Systems
help lower your overall
connectivity costs.*

- Coupler
- Lugs
- Elbows
- Stress Cones

25KV SINGLE-CONDUCTOR PORTABLE POWER CABLE – TYPE SH

Part No. 37-550-	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
030	1/0	266	.295	.170	1.500	1350	260
031	2/0	323	.295	.170	1.555	1507	300
033	4/0	532	.295	.190	1.713	1909	395
034	250	627	.295	.190	1.763	2085	440
035	350	888	.295	.190	1.886	2517	545
037	500	1221	.295	.205	2.048	3168	680



35KV SINGLE-CONDUCTOR PORTABLE POWER CABLE – TYPE SH

Part No. 37-550-	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
050	1/0	266	.380	.170	1.175	1632	260
051	2/0	342	.380	.205	1.840	1898	300
053	4/0	532	.380	.205	1.915	2235	395
054	250	627	.380	.205	1.975	2509	440
055	350	888	.380	.205	2.100	2901	545
057	500	1221	.380	.205	2.280	3396	680

- Cable diameters and weights are subject to +/- 5% manufacturing tolerance
- Ampacity is calculated with a 90°C conductor temperature and 40°C ambient air, per 2008 NEC, Table 310.69

MEDIUM VOLTAGE SHIELDED POWER CABLE SINGLE-CONDUCTOR 5000 - 15000 VOLTS • 90°C

CONDUCTOR

Soft annealed flexible stranded tinned copper per IEEE 1580 Table 11

INSULATION SHIELD

Tin-coated copper braid applied over a semiconductive tape (5-15kV). Extruded semi-conductive thermosetting material (25-35kV)

METALLIC SHIELD

Composite shield consisting of 0.0126" tinned copper braided with nylon providing 60% copper shielded coverage meeting UL 1309, IEEE Std. 1580 and UL 1072.



INSULATION

Extruded thermosetting 90°C Ethylene Propylene Rubber (EPR), meeting UL 1309 (Type E), IEEE 1580 (Type E) and UL 1072.

CONDUCTOR SHIELD

A combination of semi-conducting tape and extruded thermosetting semi-conducting material meeting UL 1309, IEEE 1580 and UL1072.

JACKET

A black, arctic grade, flame retardant, oil, abrasion, chemical and sunlight resistant thermosetting compound meeting UL 1309, IEEE 1580 and UL 1072.

APPLICATION

Designed for longer service life in applications involving repeated flexing and high vibration environments.

FEATURES

- Flexible stranded conductors and braided shields make this cable very suitable for applications involving repeated flexing and high vibration.
- Small minimum bending radius (6xOD) for easy installation and handling.
- Optional uninsulated grounding conductors sized per UL 1072.

RATINGS & APPROVALS

- 90°C temperature rating
- Voltage Rating – 5kV to 15kV (25kV available on request)
- Passes IEC 332-3 Category A and IEEE 1202 flame tests

5KV • 100/133% INSULATION LEVEL SINGLE CONDUCTOR TYPE MV

							AMPACITY				
Size AWG/ kcmil	mm ²	Part No. 37-105	Nominal Diameter (inches)	Weight (Lbs./ 1000 ft.)	Inductive Reactance (ohms/ 1000 ft.)	Voltage Drop (Volts/amp/ 1000 ft.)	In Free Air (amps)	Triangular Configuration (amps)	Single Banked in Tray (amps)	DC Resistance at 25°C (ohms/1000 ft.)	AC Resistance at 90°C, 60 Hz (ohms/1000 ft.)
8	7.6	-101	0.587	205	0.054	1.282	80	69	68	0.694	0.885
6	12.5	-102	0.641	260	0.050	0.822	107	92	91	0.436	0.556
4	21	-103	0.723	349	0.044	0.566	141	121	120	0.286	0.376
2	34	-104	0.790	456	0.041	0.361	186	159	158	0.175	0.230
1	43	-105	0.824	522	0.040	0.296	214	184	182	0.140	0.184
1/0	54	-106	0.915	645	0.039	0.245	247	212	210	0.111	0.147
2/0	70	-107	0.991	797	0.038	0.202	285	244	242	0.089	0.117
3/0	86	-108	1.020	884	0.037	0.278	328	281	279	0.070	0.094
4/0	109	-109	1.087	1053	0.035	0.141	381	325	324	0.056	0.075
262	132	-110	1.167	1266	0.034	0.122	435	371	370	0.046	0.063
313	159	-111	1.210	1293	0.033	0.108	486	413	413	0.038	0.053
373	189	-112	1.310	1683	0.032	0.095	544	460	462	0.032	0.045
444	227	-113	1.369	1935	0.032	0.086	606	510	515	0.027	0.039
535	273	-114	1.436	2223	0.031	0.077	682	570	580	0.022	0.033
646	326	-115	1.535	2598	0.030	0.070	767	635	652	0.019	0.028
777	394	-116	1.632	3066	0.030	0.065	865	709	735	0.015	0.025

8KV • 100% INSULATION LEVEL SINGLE CONDUCTOR TYPE MV

							AMPACITY			DC Resistance at 25°C (ohms/1000 ft.)	AC Resistance at 90°C, 60 Hz (ohms/1000 ft.)
Size AWG/ kcmil	mm ²	Part No. 37-105	Nominal Diameter (inches)	Weight (Lbs./ 1000 ft.)	Inductive Reactance (ohms/ 1000 ft.)	Voltage Drop (Volts/amp/ 1000 ft.)	In Free Air (amps)	Triangular Configuration (amps)	Single Banked in Tray (amps)		
6	12.5	-118	0.687	287	0.052	0.824	107	92	91	0.436	0.556
4	21	-119	0.771	392	0.046	0.567	141	121	120	0.286	0.376
2	34	-120	0.874	517	0.043	0.362	186	159	158	0.175	0.230
1	43	-121	0.919	594	0.042	0.298	214	184	182	0.140	0.184
1/0	54	-122	0.975	693	0.041	0.246	247	212	210	0.111	0.147
2/0	70	-123	1.020	809	0.039	0.203	285	244	242	0.089	0.117
3/0	86	-124	1.069	928	0.038	0.169	328	281	279	0.070	0.094
4/0	109	-125	1.170	1128	0.036	0.142	381	325	324	0.056	0.075
262	132	-126	1.213	1282	0.035	0.123	435	371	370	0.046	0.063
313	159	-127	1.283	1495	0.034	0.109	486	413	413	0.038	0.053
373	189	-128	1.338	1705	0.033	0.096	544	460	462	0.032	0.045
444	227	-129	1.411	1977	0.033	0.087	606	510	515	0.027	0.039
535	273	-130	1.492	2298	0.032	0.078	682	570	580	0.022	0.033
646	326	-131	1.583	2691	0.031	0.071	767	635	652	0.019	0.028
777	394	-132	1.748	3246	0.030	0.066	865	709	735	0.015	0.025

Also available with 133% Insulation Level

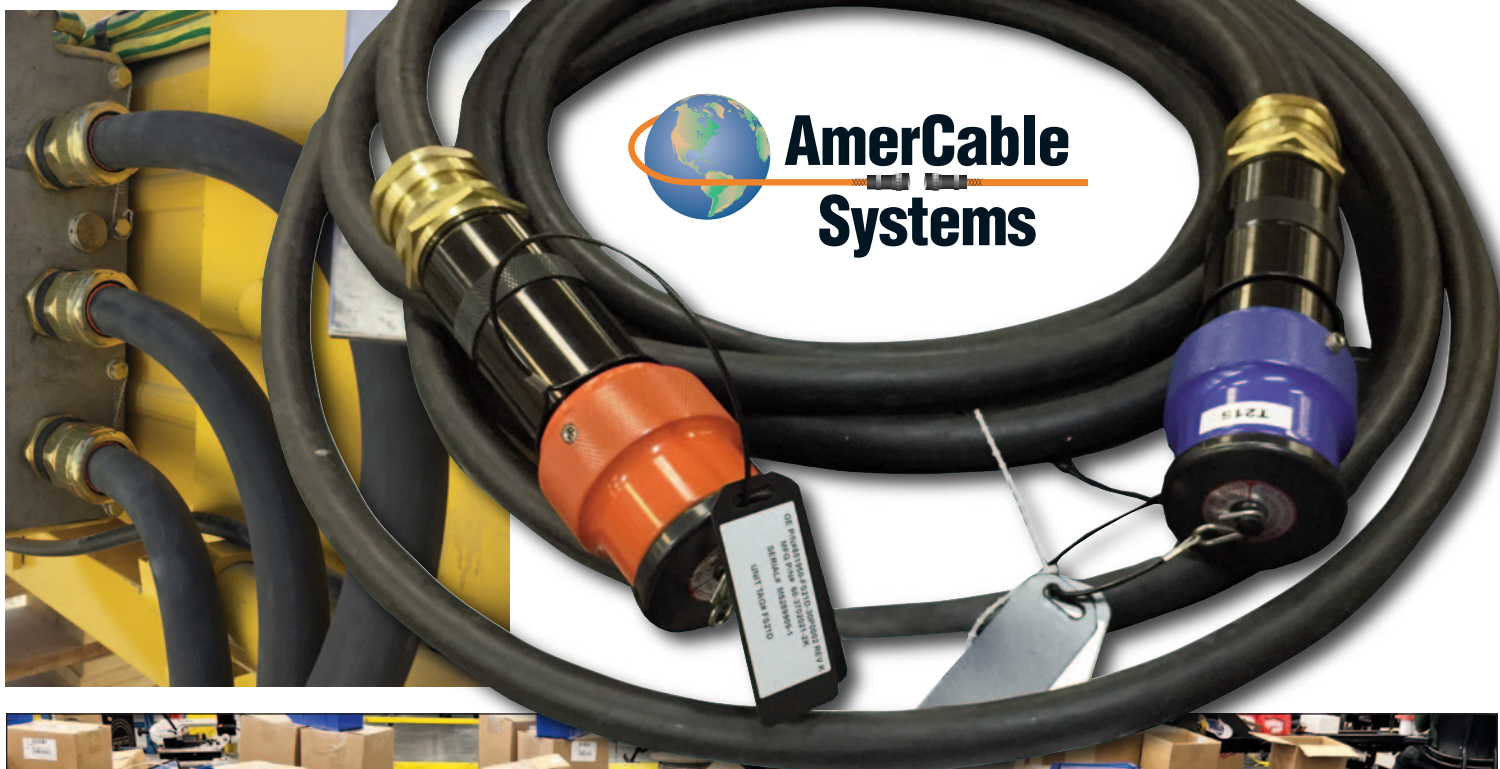
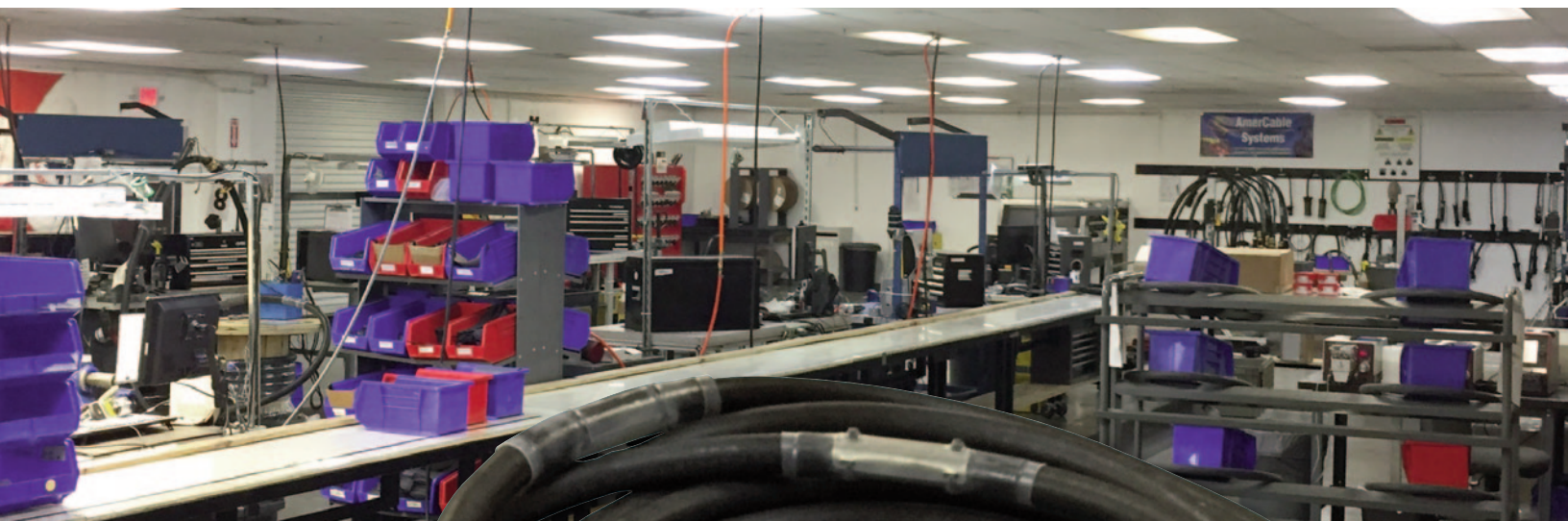
15KV • 100% INSULATION LEVEL SINGLE CONDUCTOR TYPE MV

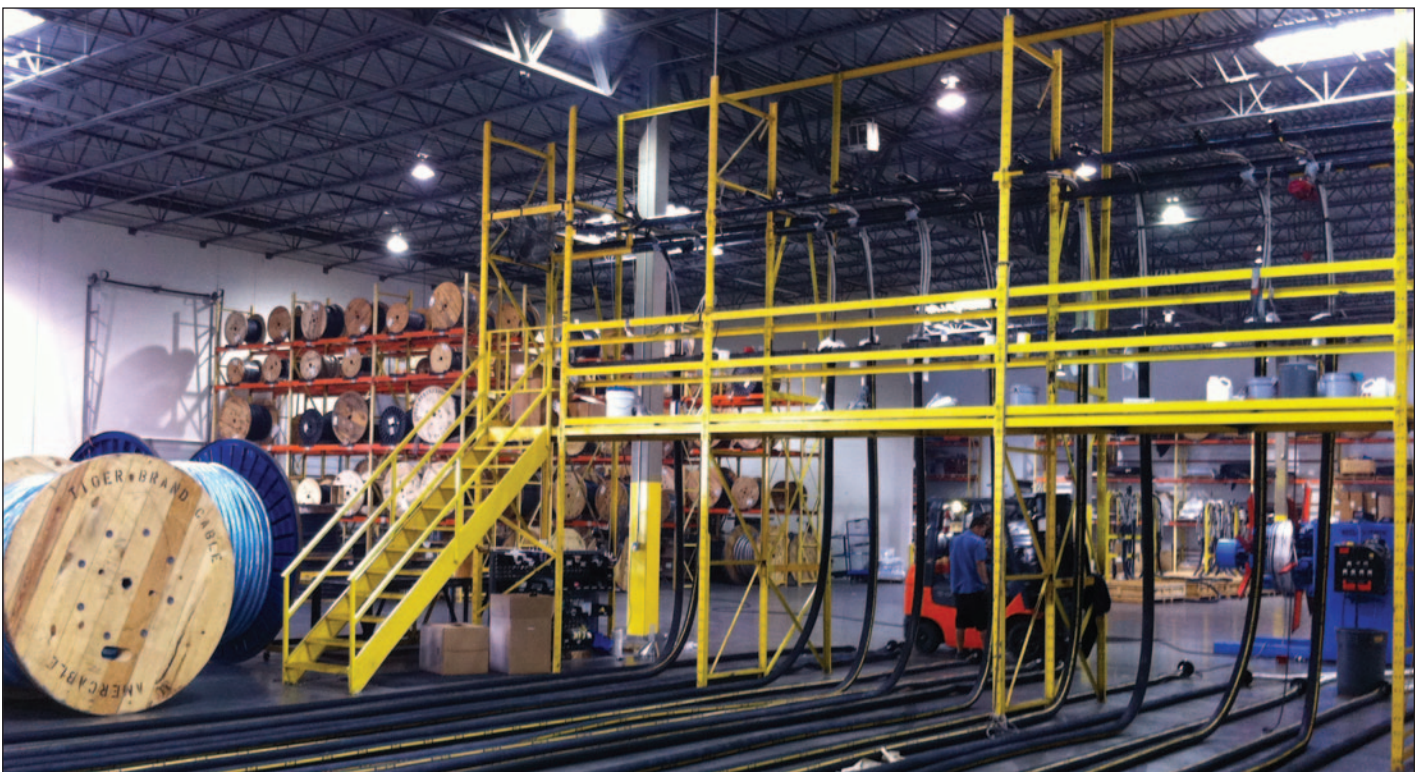
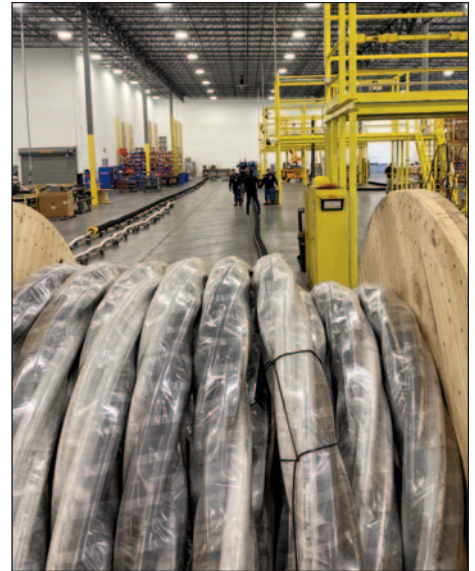
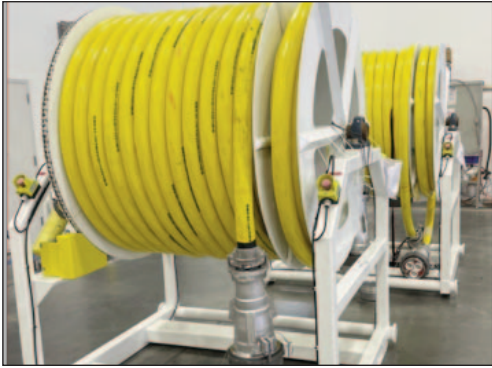
							AMPACITY			DC Resistance at 25°C (ohms/1000 ft.)	AC Resistance at 90°C, 60 Hz (ohms/1000 ft.)
Size AWG/ kcmil	mm ²	Part No. 37-105	Nominal Diameter (inches)	Weight (Lbs./ 1000 ft.)	Inductive Reactance (ohms/ 1000 ft.)	Voltage Drop (Volts/amp/ 1000 ft.)	In Free Air (amps)	Triangular Configuration (amps)	Single Banked in Tray (amps)		
2	34	-150	1.004	627	0.049	0.369	186	164	158	0.175	0.230
1	43	-151	1.046	705	0.047	0.303	214	189	182	0.140	0.184
1/0	54	-152	1.093	815	0.045	0.251	247	217	210	0.111	0.147
2/0	70	-153	1.143	925	0.044	0.208	284	250	241	0.089	0.117
3/0	86	-154	1.192	1050	0.042	0.174	327	288	278	0.070	0.094
4/0	109	-155	1.259	1233	0.040	0.146	378	332	321	0.056	0.075
262	132	-156	1.353	1443	0.039	0.128	431	377	366	0.046	0.063
313	159	-157	1.400	1628	0.038	0.113	481	418	409	0.038	0.053
373	189	-158	1.453	1864	0.037	0.100	536	464	456	0.032	0.045
444	227	-159	1.533	2153	0.036	0.091	598	514	508	0.027	0.039
535	273	-160	1.647	2508	0.036	0.082	672	574	571	0.022	0.033
646	326	-161	1.740	2825	0.035	0.075	754	638	641	0.019	0.028
777	394	-162	1.880	3475	0.034	0.070	848	709	721	0.015	0.025

Also available with 133% Insulation Level

AMERCABLE SYSTEMS

CUSTOM CONNECTIVITY SOLUTIONS







CPE SHD-GC JACKETS

AmerCable's SHD-GC thermoset Chlorinated Polyethylene (CPE) jacket provides the physical performance and strength needed to resist wear, tear, abrasion and compression cuts caused by everyday mining use.

This tough, durable jacket is produced using a mold-curing process that delivers superior performance and service life.

TPU SHD-GC JACKETS

For extremely abrasive environments, AmerCable's SHD-GC Thermoplastic Polyurethane (TPU) jacket provides the extra-tough physical characteristics needed in the roughest environments. Compared to AmerCable's CPE jacketing material, TPU provides:

5X more abrasion resistance

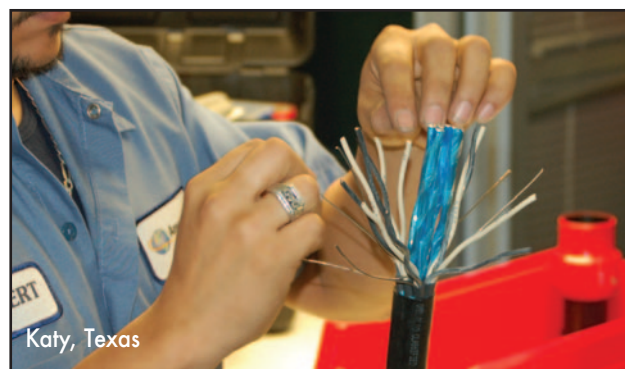
2X more tear resistance

2X more tensile strength

Up to 8% less jacket weight



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