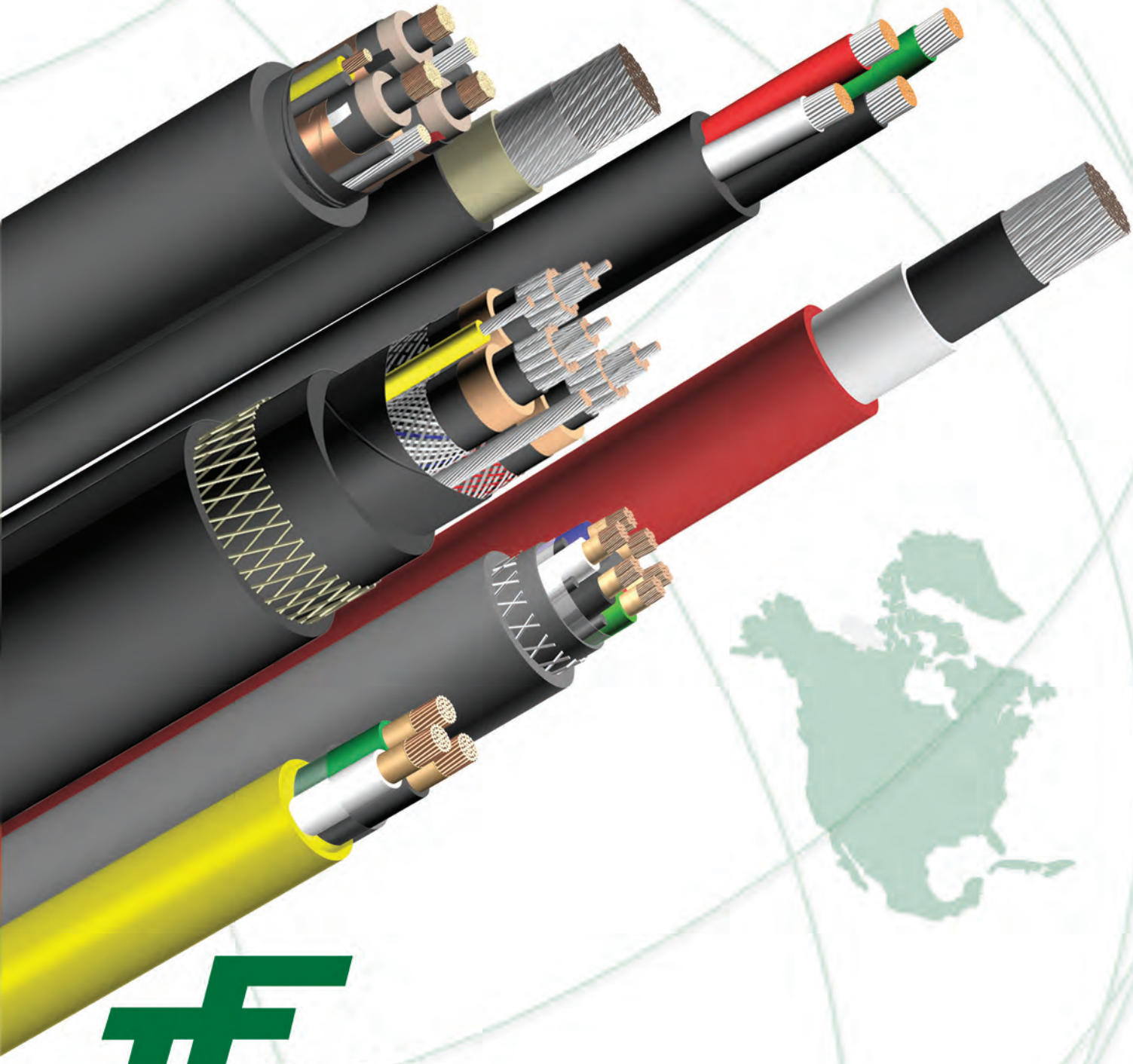
Industrial and Mining Grade Cables

NORTH AMERICA FACTORY INVENTORY



TF Cable

TELE-FONIKA CABLE AMERICAS

TELE-FONIKA CABLE AMERICAS

TELE-FONIKA CABLE AMERICAS (TFCA) is a U.S. corporation with offices and main warehouse located in Batavia, Illinois. TFCA is a wholly owned subsidiary of Tele-Fonika Kable (TFK) with responsibility for North and South American markets. TFK, one of the largest manufacturers of wire and cable in Europe, is a fully integrated manufacturer, recognized by the industry as a world-class producer of wire and cable products. The company specializes in products for heavy industry, mining, and utility applications. The company is a recognized global supplier of Portable Power Cords, Mining Cable, and Medium and High Voltage Utility Cables.

TF Cable has been active in the Americas since 1987, providing products through a network of authorized distributors, international agents, and domestic sales representatives.

TF Cable markets include utility power distribution, alternative energy, entertainment, portable power, mass transit, military, and a number of other commercial applications.

All products appearing in this catalogue are standard stocked items.

This product catalogue highlights the specific wire and cable which is the strength and core of TF Cable's production portfolio. The catalogue provides technical details of all items, subject to availability, that are stocked at a number of facilities located across North America with the ability to ship within 24 hours. TF Cable is able to make and offer many other products and sizes not included in this catalogue but they are not standard stocking items.

Your one-stop source for industrial and mining cables.

From manufacturing to distribution, TF Cable is today's premier cable provider.

1160 Pierson Drive, Suite 102, Batavia, IL 60510, U.S.A.

phone (630) 406-9000 | fax (630) 406-6574

www.tfcable.com

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RoHS COMPLIANT MSHA

TELE-FONIKA KABLE

TELE-FONIKA KABLE SA, a privately held wire and cable manufacturer headquartered in Krakow, Poland, is one of the largest wire and cable companies in the world. TF operates 8 plants in Central and Eastern Europe with a distribution network stretching 90 countries. Formed through a series of acquisitions and mergers, TFK has developed world-class technology centers of excellence with state of the art manufacturing operations. Founded in 1992, TF grew rapidly and the operations today are a result of internal development projects supported by strategic investments.

TF is the leading medium and high voltage cable manufacturer in Europe with significant market share in rubber insulated portable power cables used by HEAVY INDUSTRY & MINING. Additionally, the company manufactures products for the TELECOMMUNICATION, SHIP BUILDING, ELECTRONIC and ENERGY sectors.

All manufacturing facilities are ISO 9001, ISO 2000, and ISO 14001 certified. All products are manufactured to public, utility and industrial standards including ICEA, IEEE, and ASTM. Tele-Fonika has over 400 individual certificates issued by more than 30 governing bodies which include UL, CSA, MSHA, SABS, VDE, CE, etc.

Portable Power Cable 90˚C UL C(UL) MSHA Industrial Grade

SPECIFICATIONS & STANDARDS

ICEA S-75-381/NEMA WC58, ICEA S-95-658/NEMA WC70, ASTM B172, ASTM B 33, UL 44

CONSTRUCTION:

Conductors: Extra flexible strand bare copper (Standard Flex tin copper), B-172 and ICEA S-75-381/NEMA WC70
Separator: Tape separator between conductor and insulation
Insulation: Ethylene-propylene rubber (EPR), ICEA S-61-658 sec.3.21, table 3-6
Reinforcement: Single faced rubber filled binder tape over insulation
Jacket: Black heavy duty CPE thermoset compound, ICEA S-75-381/NEMA WC70 sec 3.21, table 3-4

FEATURES	APPLICATION
- Super-excellent flexibility - Water resistant and flame retardant - Rated and flexible at –40ºC to +90ºC - Excellent impact and abrasion resistant - Ozone, sunlight, oil, grease, weather, chemical resistant	- Portable power systems - Other industrial applications

APPROVALS:

UL: E207132 – Oil Resistant; Oil Resistant Inners; Sunlight Resistant; 90C Wet or Dry
C(UL): E207132 – FT1; FT5; -40˚C + 90˚C
MSHA: P-7K-268101

EXTRA FLEX

Part Number	Power Conductor Size	Power Conductor Stranding	Nominal Insulation Thickness		Nominal O.D.		Approx. Weight		Ampacity (1) 40ºC Ambient Temp.
	AWG or MCM	No. of Wires	inches	mm	inches	mm	lbs/1000 ft	kgs/km	A
W8-1X	8 AWG	162/30	0.060	1.52	0.441	11.2	145	216	81
W6-1X	6 AWG	264/30	0.060	1.52	0.511	12.9	200	298	104
W4-1X	4 AWG	418/30	0.060	1.52	0.564	14.3	255	379	141
W2-1X	2 AWG	660/30	0.060	1.52	0.651	16.5	375	558	192
W1-1X	1 AWG	836/30	0.080	2.03	0.729	18.5	475	707	221
W1/0X	1/0 AWG	1056/30	0.080	2.03	0.751	19.0	530	789	261
W2/0X	2/0 AWG	1320/30	0.080	2.03	0.800	20.3	650	967	300
W3/0X	3/0 AWG	1672/30	0.080	2.03	0.856	21.7	750	1116	351
W4/0X	4/0 AWG	2090/30	0.080	2.03	0.981	24.9	970	1444	405
W250X	250 MCM	2496/30	0.095	2.41	1.001	25.4	1130	1682	455

STANDARD FLEX

Part Number	Power Conductor Size	Power Conductor Stranding	Nominal Insulation Thickness		Nominal O.D.		Approx. Weight		Ampacity (1) 40°C Ambient Temp.
	AWG or MCM	No. of Wires	inches	mm	inches	mm	lbs/1000 ft	kgs/km	A
W350-1 W500-1	350 MCM 500 MCM	888 37x24 1221 37x33	0.095	2.41	1.146 1.255	29.1 31.9	1444 1913	2149 2847	552 695

(1) Ampacity – 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE (SIZE) TYPE W 2000V PORTABLE POWER CABLE RHH/RHW 90C SUN RES OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT5 (-40C) P-7K-268101-MSHA

SPECIAL FACTORY OPTIONS:

Jacket: Other colors available
MSHA: P-7K-268077 (Neoprene)
CSA: 1523058 (LR 103932) – FT1; FT5; 90C; (-40C) (Neoprene)

W 2000V

Portable Power Cable 90˚C UL C(UL) MSHA Industrial Grade

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

ICEA S-75-381/NEMA WC58, ICEA S-95-658/NEMA WC70, ASTM B172, ASTM B 33, UL 44

CONSTRUCTION:

Conductors: Flexible strand tin copper, ASTM B-172 and ICEA S-75-381/NEMA WC58
Separator: Tape separator between the conductor and insulation
Insulation: Ethylene-propylene rubber (EPR), ICEA S-75-381 sec 3.15, table 3-8
Assembly: Conductors and rubber fillers cabled to form round core
Reinforcement: Single faced rubber filled binder tape over insulation
Jacket: Black heavy duty CPE thermoset compound, ICEA S-75-381 sec 3.4, table 3-4
Color Code: ICEA S-75-381 sec 3.18; black, white

FEATURES	APPLICATIONS
- Excellent flexibility - Water resistant and flame resistant - Rated and flexible at –40ºC to +90ºC - Excellent impact and abrasion resistant - Ozone sunlight oil, grease, weather, chemical resistant	- Portable power systems - Other industrial applications - Mining application where bare grounding conductors are not required

APPROVALS:

UL: E207132 – Oil Resistant; Oil Resistant Inners; Sunlight Resistant; 90C Wet or Dry
C(UL): E207132 - FT1; FT5; -40˚C + 90˚C
MSHA: P-7K-268101

2 CONDUCTOR

Part Number	Power Conductor Size	Power Conductor Stranding	Nominal Insulation Thickness		Nominal O.D.		Approx. Weight		Ampacity (1) 40°C Ambient Temp.
	AWG or MCM	No. of Stranding	inches	mm	inches	mm	lbs/1000 ft	kgs/km	A
W8-2	8 AWG	133 7x19	0.060	1.52	0.83	21.1	391	581	72
W6-2	6 AWG	133 7x19	0.060	1.52	0.94	23.9	571	849	95
W4-2	4 AWG	259 7x37	0.060	1.52	1.07	27.3	793	1180	127
W2-2	2 AWG	259 7x37	0.060	1.52	1.26	32.1	1142	1699	167

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE (SIZE) TYPE W PORTABLE POWER CABLE 2000V 90C SUN RES OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT5 (-40°C) P-7K-268101-MSHA

SPECIAL FACTORY OPTIONS:

Jacket: Other colors available
MSHA: P-7K-268077 (Neoprene)
CSA: 1523058 (LR 103932) – FT1; FT5; 90C; (-40C) (Neoprene)

Portable Power Cable 90˚C UL C(UL) MSHA Industrial Grade

SPECIFICATIONS & STANDARDS

ICEA S-75-381/NEMA WC58, ICEA S-95-658/NEMA WC70, ASTM B172, ASTM B 33, UL 44

CONSTRUCTION:

Conductors: Flexible strand tin copper, ASTM B-172 and ICEA S-75-381/NEMA WC58
Separator: Tape separator between the conductor and insulation
Insulation: Ethylene-propylene rubber (EPR), ICEA S-75-381 sec 3.15, table 3-9
Assembly: Conductors and rubber fillers cabled to form round core
Reinforcement: Single faced rubber filled binder tape over insulation
Jacket: Black heavy duty CPE thermoset compound, ICEA S-75-381 sec 3.4, table 3-4
Color Code: ICEA S-75-381 sec 3.18; black, white, green

FEATURES	APPLICATIONS
- Excellent flexibility - Water resistant and flame resistant - Rated and flexible at –40ºC to +90ºC - Excellent impact and abrasion resistant - Ozone sunlight oil, grease, weather, chemical resistant	- Portable power systems - Other industrial applications - Mining application where bare grounding conductors are not required

APPROVALS:

UL: E207132 – Oil Resistant; Oil Resistant Inners; Sunlight Resistant; 90C Wet or Dry
C(UL): E207132 - FT1; FT5; -40˚C + 90˚C
MSHA: P-7K-268101

3 CONDUCTOR

Part Number	Power Conductor Size	Power Conductor Stranding	Nominal Insulation Thickness		Nominal O.D.		Approx. Weight		Ampacity (1) 40°C Ambient Temp.
	AWG or MCM	No. of Stranding	inches	mm	inches	mm	lbs/1000 ft	kgs/km	A
W8-3	8 AWG	133 7x19	0.060	1.52	0.91	23.1	541	805	59
W6-3	6 AWG	133 7x19	0.060	1.52	1.01	25.7	715	1064	79
W4-3	4 AWG	259 7x37	0.060	1.52	1.05	26.5	1010	1503	104
W2-3	2 AWG	259 7x37	0.060	1.52	1.32	33.6	1405	2091	138
W1-3	1 AWG	259 7x37	0.080	2.03	1.51	38.4	1734	2581	161
W1/0-3	1/0 AWG	266 19x14	0.080	2.03	1.63	41.4	2030	3010	186
W2/0-3	2/0 AWG	342 19x18	0.080	2.03	1.73	44.0	2566	3818	215
W3/0-3	3/0 AWG	418 19x22	0.080	2.03	1.85	47.0	2885	4293	249
W4/0-3	4/0 AWG	532 19x28	0.080	2.03	1.99	50.6	3479	5177	287
W250-3	250 MCM	627 19x33	0.095	2.41	2.39	60.7	4368	6500	320
W350-3	350 MCM	888 37x24	0.095	2.41	2.66	67.5	5895	8772	394
W500-3	500 MCM	1221 37x33	0.095	2.41	2.98	75.8	7820	11638	487

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE (SIZE) TYPE W PORTABLE POWER CABLE 2000V 90C SUN RES OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT5 (-40°C) P-7K-268101-MSHA

SPECIAL FACTORY OPTIONS:

Jacket: Other colors available
MSHA: P-7K-268077 (Neoprene)
CSA: 1523058 (LR 103932) – FT1; FT5; 90C; (-40C) (Neoprene)

W 2000V

Portable Power Cable 90˚C UL C(UL) MSHA Industrial Grade

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

ICEA S-75-381/NEMA WC58, ICEA S-95-658/NEMA WC70, ASTM B172, ASTM B 33, UL 44

CONSTRUCTION:

Conductors: Flexible strand tin copper, ASTM B-172 and ICEA S-75-381/NEMA WC58
Separator: Tape separator between conductor and insulation
Insulation: Ethylene-propylene rubber (EPR), ICEA S-75-381 sec 3.15, table 3-10
Assembly: Conductors and rubber fillers cabled to form round core
Reinforcement: Single faced rubber filled binder tape over insulation
Jacket: Black heavy duty CPE thermoset compound, ICEA S-75-381 sec 3.4, table 3-4
Color Code: ICEA S-75-381 sec 3.18; black, white, green, red

FEATURES	APPLICATIONS
- Excellent flexibility - Water resistant and flame resistant - Rated and flexible at –40ºC to +90ºC - Excellent impact and abrasion resistant - Ozone sunlight oil, grease, weather, chemical resistant	- Portable power systems - Other industrial applications - Mining application where bare grounding conductors are not required

APPROVALS:

UL: E207132 – Oil Resistant; Oil Resistant Inners; Sunlight Resistant; 90C Wet or Dry
C(UL): E207132 - FT1; FT5; -40˚C + 90˚C
MSHA: P-7K-268101

4 CONDUCTOR

Part Number	Power Conductor Size	Power Conductor Stranding	Nominal Insulation Thickness		Nominal O.D.		Approx. Weight		Ampacity (1) 40°C Ambient Temp.
	AWG or MCM	No. of Stranding	inches	mm	inches	mm	lbs/1000 ft	kgs/km	A
W8-4	8 AWG	133 7x19	0.060	1.52	0.97	24.6	656	976	54
W6-4	6 AWG	133 7x19	0.060	1.52	1.11	28.3	908	1352	72
W4-4	4 AWG	259 7x37	0.060	1.52	1.26	32.1	1262	1878	93
W2-4	2 AWG	259 7x37	0.060	1.52	1.43	36.3	1759	2618	122
W1-4	1 AWG	259 7x37	0.080	2.03	1.71	43.4	2322	3456	143
W1/0-4	1/0 AWG	266 19x14	0.080	2.03	1.78	45.2	2721	4050	165
W2/0-4	2/0 AWG	342 19x18	0.080	2.03	1.89	48.0	3293	4901	192
W3/0-4	3/0 AWG	418 19x22	0.080	2.03	2.02	51.4	3849	5729	221
W4/0-4	4/0 AWG	532 19x28	0.080	2.03	2.22	56.3	4765	7092	255
W250-4	250 MCM	627 19x33	0.095	2.41	2.61	66.2	5579	8303	280
W350-4	350 MCM	888 37x24	0.095	2.41	2.92	74.2	7329	10908	335
W500-4	500 MCM	1221 37x33	0.095	2.41	3.34	84.8	9896	14729	395

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE (SIZE) TYPE W PORTABLE POWER CABLE 2000V 90C SUN RES OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT5 (-40°C) P-7K-268101-MSHA

SPECIAL FACTORY OPTIONS:

Jacket: Other colors available
MSHA: P-7K-268077 (Neoprene)
CSA: 1523058 (LR 103932) – FT1; FT5; 90C; (-40C) (Neoprene)

Portable Power Cable 90˚C UL C(UL) MSHA Industrial Grade

SPECIFICATIONS & STANDARDS

ICEA S-75-381/NEMA WC58, ICEA S-95-658/NEMA WC70, ASTM B172, ASTM B 33, UL 44

CONSTRUCTION:

Conductors: Flexible strand tin copper, ASTM B-172 and ICEA S-75-381/NEMA WC58
Separator: Tape separator between conductor and insulation
Insulation: Ethylene-propylene rubber (EPR), ICEA S-75-381 sec 3.15, table 3-16
Assembly: Conductors and rubber fillers cabled to form round core
Reinforcement: Single faced rubber filled binder tape over insulation
Jacket: Black heavy duty CPE thermoset compound, ICEA S-75-381 sec 3.4, table 3-4
Color Code: ICEA S-75-381 sec 3.18; black, white, red, green, orange

FEATURES	APPLICATIONS
- Excellent flexibility - Water resistant and flame resistant - Rated and flexible at –40ºC to +90ºC - Excellent impact and abrasion resistant - Ozone sunlight oil, grease, weather, chemical resistant	- Portable power systems - Other industrial applications - Mining application where bare grounding conductors are not required

APPROVALS:

UL: E207132 – Oil Resistant; Oil Resistant Inners; Sunlight Resistant; 90C Wet or Dry
C(UL): E207132 - FT1; FT5; -40˚C + 90˚C
MSHA: P-7K-268101

5 CONDUCTOR

Part Number	Power Conductor Size	Power Conductor Stranding	Nominal Insulation Thickness		Nominal O.D.		Approx. Weight		Ampacity (1) 40°C Ambient Temp.
	AWG or MCM	No. of Stranding	inches	mm	inches	mm	lbs/1000 ft	kgs/km	A
W8-5	8 AWG	133 7x19	0.06	1.52	1.07	27.2	776	1154	50
W6-5	6 AWG	133 7x19	0.06	1.52	1.24	31.5	1024	1524	68
W4-5	4 AWG	259 7x37	0.06	1.52	1.36	35.2	1432	2131	88
W2-5	2 AWG	259 7x37	0.06	1.52	1.56	39.8	2051	3052	116
W1-5	1 AWG	259 7x37	0.06	1.52	1.85	47.1	2665	3967	136
W1/0-5	1/0 AWG	266 19x14	0.08	2.03	1.98	50.4	3406	5069	150
W2/0-5	2/0 AWG	342 19x18	0.08	2.03	2.13	54.1	3596	5351	172
W3/0-5	3/0 AWG	418 19x22	0.08	2.03	2.27	57.6	4728	7035	200
W4/0-5	4/0 AWG	532 19x28	0.08	2.03	2.46	62.6	5512	8203	230

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE (SIZE) TYPE W PORTABLE POWER CABLE 2000V 90C SUN RES OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT5 (-40°C) P-7K-268101-MSHA

SPECIAL FACTORY OPTIONS:

Jacket: Other colors available
MSHA: P-7K-268077 (Neoprene)
CSA: 1523058 (LR 103932) – FT1; FT5; 90C; (-40C) (Neoprene)

G-GC 2000V

Portable Power Cable 90˚C UL C(UL) MSHA Industrial Grade

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

ICEA S-75-381/NEMA WC58, ICEA S-95-658/NEMA WC70, ASTM B172, ASTM B 33, UL 44, UL 1581

CONSTRUCTION:

Conductors: Flexible strand tin copper, ASTM B-172 Class I and ICEA S-75-381/NEMA WC58
Insulation: Ethylene-propylene rubber (EPR); ICEA S-75-381 sec 3.15, table 3-12
Grounding conductors: ICEA S-75-381, insulation color: green
Ground check: Yellow polypropylene-insulated bare copper conductor, ICEA S-75-381 table 3-21
Assembly: Conductors and rubber fillers cabled to form round core
Separator: Single faced rubber filled binder tape applied overall
Jacket: Black heavy duty CPE thermoset compound, ICEA S-75-381 sec 3.21, table 3-4
Color Code: ICEA S-75-381 sec 3.21 table 3-4; black, white, red

FEATURES	APPLICATION
- Excellent flexibility - Ozone, sun, weather and flame resistant - Rated and flexible at –40˚C to 90˚C - Excellent impact and abrasion resistant - Oil and heat resistant	- Use on AC off track equipment such as miners, shuttle cars, cutting machines, loading machines, drills, conveyors, and pumps - Power to open pit strip and deep mines

APPROVALS:

UL: E207132 – Oil Resistant; Oil Resistant Inners; Sunlight Resistant; 90C Wet or Dry
MSHA: P-7K-268101

3 CONDUCTOR

Part Number	Power Conductor Size	Power Conductor Stranding	Size		Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal O.D.		Approx. Weight		Ampacity (1) 40ºC Ambient Temp.
			Ground	Ground Check							
	AWG or MCM	No. of Stranding	AWG	AWG	inches	inches	inches	mm	lbs/1000 ft	kgs/km	A
GGC8-3	8 AWG	133 7x19	10	10	0.060	0.134	0.97	24.6	632	941	59
GGC6-3	6 AWG	133 7x19	10	10	0.060	0.146	1.05	26.7	752	1119	79
GGC4-3	4 AWG	259 7x37	8	10	0.060	0.146	1.19	30.2	1130	1682	104
GGC2-3	2 AWG	259 7x37	7	10	0.060	0.165	1.34	34.0	1532	2280	138
GGC1-3	1 AWG	259 7x37	6	8	0.080	0.170	1.51	38.4	1940	2901	161
GGC1/0-3	1/0 AWG	266 19x14	5	8	0.080	0.170	1.65	41.9	2292	3411	186
GGC2/0-3	2/0 AWG	342 19x18	4	8	0.080	0.190	1.75	44.5	2658	3955	215
GGC3/0-3	3/0 AWG	418 19x22	2	8	0.080	0.197	1.89	48.0	3300	4910	249
GGC4/0-3	4/0 AWG	532 19x28	2	8	0.080	0.205	2.04	51.8	4058	6039	287
GGC250-3	250 MCM	627 19x33	2	8	0.095	0.280	2.39	60.7	4807	7153	320
GGC350-3	350 MCM	888 37x24	1/0	8	0.095	0.252	2.68	68.1	6247	9296	394
GGC500-3	500 MCM	1221 37x33	2/0	8	0.095	0.315	3.03	77.0	8426	12539	487

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE (SIZE) TYPE G-GC PORTABLE POWER CABLE 2000V 90C SUN RES OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT5 (-40C) P-7K-268101-MSHA

SPECIAL FACTORY OPTIONS:

Jacket: Other colors available
MSHA: P-7K-268077 (Neoprene)
CSA: 1523058 (LR 103932) – FT1; FT5; 90C; (-40C) (Neoprene)
Jacket: TPU Other colors available
MSHA: P-07-KA030001 (TPU)

Portable Power Cable 90˚C UL C(UL) MSHA Industrial Grade

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

ICEA S-75-381/NEMA WC58, ICEA S-95-658/NEMA WC70, ASTM B172, ASTM B 33, UL 44, UL 1581

CONSTRUCTION:

Conductors: Flexible strand tin copper, ASTM B-172 Class I and ICEA S-75-381/NEMA WC58
Insulation: Ethylene-propylene rubber (EPR); ICEA S-75-381 sec 3.15, table 3-10
Grounding cond: ICEA S-75-381; insulation color: green
Assembly: Conductors and rubber fillers cabled to form round core
Separator: Single faced rubber filled binder tape applied overall
Jacket: Black heavy duty CPE thermoset compound, ICEA S-75-381 sec 3.21, table 3-4
Color Code: ICEA S-75-381 sec 3.21 table 3-4; black, white, red, orange

FEATURES	APPLICATION
- Excellent flexibility - Ozone, sun, weather and flame resistant - Rated and flexible at –40˚C to 90˚C - Excellent impact and abrasion resistant - Oil and heat resistant	- Use on AC off track equipment such as miners, shuttle cars, cutting machines, loading machines, drills, conveyors, and pumps - Power to open pit strip and deep mines

APPROVALS:

UL: E207132 – Oil Resistant; Oil Resistant Inners; Sunlight Resistant; 90C Wet or Dry
C(UL): E207132 - FT1; FT5; -40˚C + 90˚C
MSHA: P-7K-268101

4 CONDUCTOR

Part Number	Power Conductor Size	Power Conductor Stranding	Grounding Conductor Size	Nominal Insulation Thickness	Nominal O.D.		Approx. Weight		Ampacity (1) 40ºC Ambient Temp.
	AWG or MCM	No. and Diameters of Stranding	AWG	inches	inches	mm	lbs/1000ft	kgs/km	A
G6-4	6 AWG	133 7x19	12	0.060	1.10	27.9	910	1354	72
G4-4	4 AWG	133 7x19	10	0.060	1.27	32.3	1378	2050	93
G2-4	2 AWG	259 7x37	9	0.060	1.48	37.6	1914	2848	122
G1-4	1 AWG	259 7x37	8	0.080	1.68	42.7	2311	3439	143
G1/0-4	1/0 AWG	266 19x14	7	0.080	1.79	45.5	2810	4181	165
G2/0-4	2/0 AWG	342 19x18	6	0.080	1.93	49.0	3253	4842	192
G3/0-4	3/0 AWG	259 37x7	5	0.080	2.07	52.6	4099	6100	221
G4/0-4	4/0 AWG	532 19x28	4	0.080	2.26	57.4	4925	7329	255
G250-4	250 MCM	250 19x33	3	0.095	2.66	67.6	6060	9018	280
G350-4	350 MCM	888 37x24	1	0.095	2.98	75.7	8126	12093	335
G500-4	500 MCM	1221 37x33	1/0	0.095	3.40	86.4	10758	16010	395

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE (SIZE) TYPE G PORTABLE POWER CABLE 2000V 90C SUN RES OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT5 (-40C) P-7K-268101-MSHA

SPECIAL FACTORY OPTIONS:

Jacket: Other colors available
MSHA: P-7K-268077 (Neoprene)
CSA: 1523058 (LR 103932) – FT1; FT5; 90C; (-40C) (Neoprene)
Jacket: TPU Other colors available
MSHA: P-07-KA030001 (TPU)

Portable Power Cable 90˚C UL CSA MSHA Industrial Grade

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

UL 44, ICEA S-95-658/NEMA WC70, UL 1685, IEEE-1202, CSA C22.2 No. 38, ASTM B 8, ASTM B 33, AAR, RP-588 RP-586

CONSTRUCTION:

Nominal voltage: RHH/RHW-2 600V and 2000V, RW-90 CSA, 1kV, DLO 2kV
Conductors: Flexible strand tin coated copper conductor, B-172, ASTM B-33
Separator: Tape separator between conductor and insulation
Insulation: Ethylene-propylene rubber (EPR), UL, CSA, ICEA, AAR RP-588, 90ºC
Jacket: Black heavy duty, thermoset CPE, ICEA S-95-658 NEMA WC70, AAR RP-586
Bending radius: For fixed – minimum 4xD, for flexible – minimum 6xD, D – diameter of cable
Torsion stresses: ±100 ˚/m

FEATURES	APPLICATION
- UL listed RHH/RHW-2 600 V and 2000V for black jacket - Rated 2kV DLO, 1kV RW90 - 90˚C (dry) 90˚C (wet) - Ozone, sunlight, oil, grease, weather, water, chemical and abrasion resistant jacket - Tray Cable (TC) Rated RW-90 CSA - MSHA,VW-1, SUN RES, FOR CT USE for sizes 1/0 AWG and larger and for black jacket - Limited Smoke (LS) ST1 in accordance with (UL) 1685	- Designed for uses requiring a flexible heavy duty power cables - For portable or fixed installations - Leads for motors, generators, batteries, jumper cables - Deep well Submersible Pump Cable

APPROVALS:

UL: E193594 (CPE jacket) RHW-2 90C wet and dry, VW-1, Sun Res, for 1/0 and larger ST-1, FT-4, IEEE1202, for CT use
C(UL): E193954: TYPE RW90 EP; 1000V; FT1
CSA: 1101209 LL103932: 205591; RW-90 90C; FT1; FT4; -40C; OIL RES Tray Cable Sun Res 1/0 and larger
MSHA: P-7268080-01-MSHA

Part Number	Power Conductor Size	Power Conductor Stranding	Conductor Diameter	Nominal Insulation Thickness	Nominal Jacket Thickness	Maximum O.D.		Approx. Weight		Ampacity at Ambient Temp. 30ºC
	AWG or MCM	No. of Stranding	inches	inches	inches	inches	mm	lbs/1000 ft	kgs/km	A
DLO14	14 AWG	19/27	0.074	0.045	0.030	0.236	6.0	25	37	35
DLO12	12 AWG	19/25	0.094	0.045	0.030	0.256	6.5	46	68	40
DLO10	10 AWG	27/24	0.128	0.045	0.030	0.290	7.4	67	100	55
DLO8	8 AWG	37/24	0.147	0.060	0.030	0.333	8.5	95	141	80
DLO6	6 AWG	61/24	0.207	0.060	0.030	0.403	10.2	134	199	105
DLO4	4 AWG	105/24	0.264	0.060	0.030	0.461	11.7	192	286	140
DLO2	2 AWG	150/24	0.314	0.060	0.030	0.510	13.0	248	369	190
DLO1	1 AWG	225/24	0.390	0.080	0.045	0.650	16.5	428	637	220
DLO1/0	1/0 AWG	275/24	0.420	0.080	0.045	0.700	17.8	480	714	260
DLO2/0	2/0 AWG	325/24	0.460	0.080	0.045	0.740	18.8	558	830	300
DLO3/0	3/0 AWG	450/24	0.555	0.080	0.045	0.815	20.7	742	1104	350
DLO4/0	4/0 AWG	550/24	0.587	0.080	0.045	0.870	22.1	872	1298	405

*** Based on single conductor in free air, 30ºC ambient air temperature 90ºC conductor temperature per 2005 NEC Table 310.17

STANDARD PRINT LEGEND:

1 AWG AND SMALLER: TF CABLE TORSIONFLEX E193594 (UL) TYPE RHW-2 (SIZE) 2KV VW-1 SUN RES TYPE RW-90 EP 1000V (CSA) 205591 -40C FT1 FT4 TYPE DLO 2KV 90C P-7K-268080-01-MSHA

1/0 AWG AND LARGER: TF CABLE TORSIONFLEX E193594 (UL) TYPE RHW-2 (SIZE) 2KV VW-1 ST1 SUN RES TYPE RW-90 EP 1000V (CSA) 205591 -40C FT1 FT4 SR OIL RES TC TYPE DLO TF CABLE 2KV 90C P-7K-268080-01-MSHA

Portable Power Cable 90˚C UL CSA MSHA Industrial Grade

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

UL 44, ICEA S-95-658/NEMA WC70, UL 1685, IEEE-1202, CSA C22.2 No. 38, ASTM B 8, ASTM B 33, AAR, RP-588 RP-586

CONSTRUCTION:

Nominal voltage: RHH/RHW-2 600V and 2000V, RW-90 CSA, 1kV, DLO 2kV
Conductors: Flexible strand tin coated copper conductor, B-172, ASTM B-33
Separator: Tape separator between conductor and insulation
Insulation: Ethylene-propylene rubber (EPR), UL, CSA, ICEA, AAR RP-588, 90ºC
Jacket: Black heavy duty, thermoset CPE, ICEA S-95-658 NEMA WC70, AAR RP-586
Bending radius: For fixed – minimum 4xD, for flexible – minimum 6xD, D – diameter of cable
Torsion stresses: ±100 ˚/m

FEATURES	APPLICATION
- UL listed RHH/RHW-2 600 V and 2000V for black jacket - Rated 2kV DLO, 1kV RW90 - 90˚C (dry) 90˚C (wet) - Ozone, sunlight, oil, grease, weather, water, chemical and abrasion resistant jacket - Tray Cable (TC) Rated RW-90 CSA - MSHA,VW-1, SUN RES, FOR CT USE for sizes 1/0 AWG and larger and for black jacket - Limited Smoke (LS) ST1 in accordance with (UL) 1685	- Designed for uses requiring a flexible heavy duty power cables - For portable or fixed installations - Leads for motors, generators, batteries, jumper cables - Deep well Submersible Pump Cable

APPROVALS:

UL: E193594 RHW-2 90C wet and dry, VW-1, Sun Res, for 1/0 and larger ST-1, FT-4, IEEE1202, for CT use
C(UL): E193954: TYPE RW90 EP; 1000V; FT1
CSA: 1101209 LL103932: 205591; RW-90 90C; FT1; FT4; -40C; OIL RES Tray Cable Sun Res 1/0 and larger
MSHA: P-7268080-01-MSHA

Part Number	Power Conductor Size	Power Conductor Stranding	Conductor Diameter	Nominal Insulation Thickness	Nominal Jacket Thickness	Maximum O.D.		Approx. Weight		Ampacity at Ambient Temp. 30ºC
	AWG or MCM	No. of Stranding	inches	inches	inches	inches	mm	lbs/1000 ft	kgs/km	A
DLO262	262 MCM	650/24	0.660	0.095	0.065	0.990	25.1	1068	1589	471
DLO313	313 MCM	775/24	0.725	0.095	0.065	1.055	26.8	1258	1872	511
DLO373	373 MCM	925/24	0.787	0.095	0.065	1.125	28.6	1462	2176	590
DLO444	444 MCM	1100/24	0.870	0.095	0.065	1.205	30.6	1726	2568	656
DLO535	535 MCM	1325/24	0.950	0.110	0.065	1.290	33.1	2018	3046	731
DLO646	646 MCM	1600/24	1.040	0.110	0.065	1.410	35.8	2416	3595	815
DLO777	777 MCM	1925/24	1.130	0.110	0.065	1.500	38.1	2881	4287	905
DLO929	929 MCM	2300/24	1.208	0.120	0.065	1.610	40.9	3455	5142	1005
DLO1111	1111 MCM	2750/24	1.370	0.125	0.095	1.800	45.7	4077	6067	1115

*** Based on single conductor in free air, 30ºC ambient air temperature 90ºC conductor temperature per 2005 NEC Table 310.17

STANDARD PRINT LEGEND:

TF CABLE TORSIONFLEX E193594 (UL) TYPE RHW-2 (SIZE) 2KV VW-1 ST1 SUN RES TYPE RW-90 EP 1000V (CSA) 205591 -40C FT1 FT4 SR OIL RES TC TYPE DLO TF CABLE 2KV 90C P-7K-268080-01-MSHA

W 2000V

Multi Conductor Portable Power Cable 90˚C UL C(UL) CSA MSHA Mining Grade

SPECIFICATIONS & STANDARDS

CSA C22.2 No. 96-03, ICEA S-75-381/NEMA WC58, ICEA S-95-658/NEMA WC70, ASTM B172, ASTM B 33, UL 44

CONSTRUCTION:

Conductors: Flexible strand tin copper, ASTM B-172
Separator: Tape separator between conductor and insulation
Insulation: Ethylene-propylene rubber (EPR), C22.2 No. 96-03, sec 5.1.4
Assembly: Conductors and rubber fillers cabled to form round core
Reinforcement: Nylon open braid applied overall
Jacket: Black heavy duty CPE thermoset compound, C22.2 No. 96-03, sec 5.1.11.2 sec. 4.3.9.2 table 1
Color Code: black, blue, red, green C22.2 No. 96-03 table 1

FEATURES	APPLICATIONS
- Excellent flexibility - Water resistant and flame resistant - Rated and flexible at –40ºC to +90ºC - Excellent impact and abrasion resistant - Ozone sunlight oil, grease, weather, chemical resistant	- Portable power systems - Other industrial applications - Magnetic cranes - Mining application where bare grounding conductors are not required

APPROVALS:

UL: E207132 – Oil Resistant; Oil Resistant Inners; Sunlight Resistant; 90C Wet or Dry
C(UL): E207132 - FT1; FT5; -40˚C + 90˚C
MSHA: P-7K-268101

4 CONDUCTOR

Part Number	Power Conductor Size	Power Conductor Stranding	Nominal Insulation Thickness		Nominal O.D.		Approx. Weight		Ampacity (1) 40°C Ambient Temp.
	AWG or MCM	No. of Stranding	inches	mm	inches	mm	lbs/1000 ft	kgs/km	A
W2/0-4	2/0 AWG	342 19x18	0.080	2.03	1.89	48.0	3293	4901	192
W4/0-4	4/0 AWG	532 19x28			2.22	56.3	4765	7092	255

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE (SIZE) TYPE W PORTABLE POWER CABLE 2000V 90C SUN RES OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT5 (-40°C) P-7K-268101-MSHA

SPECIAL FACTORY OPTIONS:

Jacket: Other colors available
MSHA: P-7K-268077 (Neoprene)
CSA: 1523058 (LR 103932) – FT1; FT5; 90C; (-40C) (Neoprene)

Portable Power Cable 90˚C UL C(UL) MSHA Mining Grade

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

ICEA S-75-381/NEMA WC58, ICEA S-95-658/NEMA WC70, ASTM B 172, ASTM B 33

CONSTRUCTION:

Conductors: Flexible strand tin copper, ASTM B 172 and ICEA S-75-381
Separator: Tape separator between the conductor and insulation
Insulation: Ethylene-propylene rubber (EPR), ICEA S-75-381 sec 3.15, table 3-12
Grounding cond: Tin copper, ICEA S-75-381, table 3-12
Ground check: Yellow Polypropylene-Insulation bare copper conductor, ICEA S-75-381 table 3-21
Assembly: *Sizes 4/0 and smaller*: Three power, ground check and two polyester (green mylar) taped grounding conductors cabled together; Nylon open braid applied overall. *Sizes 250 MCM and larger*: Three power, ground check and two polyester (green mylar) taped grounding conductors cabled with rubber fillers to make round core; Single faced rubber filled binder tape applied overall
Jacket: Black extra heavy duty CPE thermoset compound, ICEA S-75-381 sec 3.21, table 3-3
Color Code: ICEA S-75-381 sec 3.18; black, white, red

FEATURES	APPLICATION
- Excellent flexibility - Highly ozone, sun, weather and flame resistant - Rated and flexible at –40ºC - Excellent impact and abrasion resistant - Special construction for reeling and trailing - Oil and heat resistant - Indent printed for easy identification	- Use on AC off track equipment such as miners, shuttle cars, cutting machines loading machines and drills as well as conveyors and pumps - Supply power to open pit strip and deep mines

APPROVALS:

UL: E207132 – Oil Resistant; Oil Resistant Inners; Sunlight Resistant; 90C Wet or Dry
C(UL): E207132 - FT1; FT5; -40˚C + 90˚C (CPE)
MSHA: P-7K-268101

3 CONDUCTOR

Part Number	Power Conductor Size	Power Conductor Stranding	Size		Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal O.D.		Approx. Weight		Ampacity (1) 40ºC Ambient Temp.
			Ground	Ground Check							
	AWG or MCM	No. of Stranding	AWG	AWG	inches	inches	inches	mm	lbs/1000 ft	kgs/km	A
GGC4-3-MNG	4 AWG	259 7x37	8	10	0.060	0.146	1.19	30.2	1130	1682	104
GGC2-3-MNG	2 AWG	259 7x37	7	10	0.060	0.165	1.34	34.0	1532	2280	138
GGC1-3-MNG	1 AWG	259 7x37	6	8	0.080	0.170	1.51	38.4	1940	2901	161
GGC1/0-3-MNG	1/0 AWG	266 19x14	5	8	0.080	0.170	1.65	41.9	2292	3411	186
GGC2/0-3-MNG	2/0 AWG	342 19x18	4	8	0.080	0.190	1.75	44.5	2658	3955	215
GGC4/0-3-MNG	4/0 AWG	532 19x29	2	8	0.080	0.205	2.04	51.8	4058	6039	287

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE (SIZE) TYPE G-GC PORTABLE POWER CABLE 2000V 90C SUN RES OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT5 (-40C) P-7K-268101-MSHA

SPECIAL FACTORY OPTIONS:

Jacket: Other colors available
MSHA: P-7K-268077 (Neoprene)
CSA: 1523058 (LR 103932) - FT1; FT5; 90°C; (-40°C) (Neoprene)
Jacket: TPU Other colors available
MSHA: P-07-KA030001 (TPU)

G-GC 2000V

Portable Power Cable 90˚C UL C(UL) CSA MSHA Mining Grade

SPECIFICATIONS & STANDARDS

CSA C22.2 No. 96-03, ICEA S-75-381/NEMA WC58, ICEA S-95-658/NEMA WC70, ASTM B 172, ASTM B 33

CONSTRUCTION:

Conductors: Flexible strand tin copper, ASTM B 172 and C22.2 No. 96-03 table 9
Separator: Tape separator between conductor and insulation C22.2 No. 96-03 sec 4.3.4 table 4
Insulation: Ethylene-propylene rubber (EPR), C22.2 No. 96-03 table 11
Grounding cond: Tin copper, C22.2 No. 96-03 sec 5.1.4.3 and 5.1.4.4
Ground check: Yellow polypropylene-insulated bare copper conductor, C22.2 No. 96-03 sec 5.1.4
Assembly: *Sizes 4/0 and smaller*: Three power, ground check and two polyester (green mylar) taped grounding conductors cabled together; *Sizes 250 MCM and larger*: Three power, ground check and two polyester (green mylar) taped grounding conductors cabled with rubber fillers to make round core; Single faced rubber filled binder tape applied overall
Reinforcement: Nylon open braid applied overall
Jacket: Black extra heavy duty CPE thermoset compound, C22.2 No. 96-03 sec 5.1.11.2 and 4.3.9.2 table 5
Color Code: black, blue, red; C22.2 No. 96-03 table 1

FEATURES	APPLICATION
- Excellent flexibility - Highly ozone, sun, weather and flame resistant - Rated and flexible at –40ºC - Excellent impact and abrasion resistant - Special construction for reeling and trailing - Oil and heat resistant - Indent printed for easy identification	- Use on AC off track equipment such as miners, shuttle cars, cutting machines loading machines and drills as well as conveyors and pumps - Supply power to open pit strip and deep mines

APPROVALS:

UL: E207132 – Oil Resistant; 90°C Wet or Dry; Sunlight resistant; Oil Resistant inners
C(UL): E207132 - FT1; FT5; -40˚C + 90˚C
MSHA: P-7K-268101

3 CONDUCTOR

Part Number	Power Conductor Size	Power Conductor Stranding	Size		Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal O.D.		Approx. Weight		Ampacity (1) 40ºC Ambient Temp.
			Ground	Ground Check							
	AWG or MCM	No. of Stranding	AWG	AWG	inches	inches	inches	mm	lbs/1000 ft	kgs/km	A
GGC8-3-MNG-CSA	8 AWG	133 7x19	10	10	0.060	0.134	0.97	24.6	632	941	59
GGC6-3-MNG-CSA	6 AWG	133 7x19	10	10	0.060	0.146	1.05	26.7	752	1119	79
GGC4-3-MNG-CSA	4 AWG	259 7x37	8	10	0.060	0.146	1.19	30.2	1130	1682	104
GGC2-3-MNG-CSA	2 AWG	259 7x37	7	10	0.060	0.165	1.34	34.0	1532	2280	138
GGC1-3-MNG-CSA	1 AWG	259 7x37	6	8	0.080	0.170	1.51	38.4	1940	2901	161
GGC1/0-3-MNG-CSA	1/0 AWG	266 19x14	5	8	0.080	0.170	1.65	41.9	2292	3411	186
GGC2/0-3-MNG-CSA	2/0 AWG	342 19x18	4	8	0.080	0.190	1.75	44.5	2658	3955	215
GGC3/0-3-MNG-CSA	3/0 AWG	418 19x22	2	8	0.080	0.197	1.89	48.0	3300	4910	249
GGC4/0-3-MNG-CSA	4/0 AWG	532 19x29	2	8	0.080	0.205	2.04	51.8	4058	6039	287
GGC350-3 MNG-CSA	350 MCM	888 37x24	1/0	8	0.095	0.252	2.68	68.1	6247	9296	394

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE (SIZE) TYPE G-GC PORTABLE POWER CABLE 2000V 90C SUN RES OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT5 (-40C) P-7K-268101-MSHA

SPECIAL FACTORY OPTIONS:

Jacket: Other colors available
MSHA: P-7K-268077 (Neoprene)
CSA: 1523058 (LR 103932) - FT1; FT5; 90°C; (-40°C) (Neoprene)
Jacket: TPU Other colors available
MSHA: P-07-KA030001 (TPU)

Mine Power Feeder Cable – XLP / PVC 90˚C MSHA Mining Grade

SPECIFICATIONS & STANDARDS

UL 1072, ASTM B 8, ICEA S-75-381/NEMA WC58

CONSTRUCTION:

Conductor: Bare copper, concentric stand ASTM B 8
Conductor shield: Extruded semi-conducting compound
Insulation: Cross-linked polyethylene (XLP) 90ºC
Insulation shield: Extruded semi-conducting compound, copper tape 0.003
Grounding cond: Bare copper Class B
Ground check : Bare copper, ICEA S-75-381 sec 4.6; Yellow XLP 45mils insulation
Assembly: Three power conductor, ground check and two non-insulated grounding conductors cabled together with rubber fillers to form round core; Estrofol binder tape applied overall
Reinforcement: Reinforcement applied over the assembly for mechanical strength
Jacket: Black flame retardant PVC, ICEA S-75-381 table 4-7
Color Code: Color code tape: black, white, red applied under metallic shielding tape provides circuit identification, ICEA S-75-381 sec 4.6

FEATURES	APPLICATION
- Maximum continuous conductor temperature 90°C - Flame resistant - Oil resistant upon special request - Indent printed for easy identification	- Shielded high voltage power distribution cable suitable for insulation in boreholes, shafts, horizontal runs in underground entries, aerial suspension on insulators and other semi-permanent mining and industrial feeder installations

APPROVALS:

MSHA: P-7K-254064

5000V – 100% and 133% INSULATION LEVEL

Part Number	Power Conductor Size	Power Conductor Stranding	Size		Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal O.D.		Approx. Weight		Ampacity(1) 40ºC Ambient Temp.
			Ground	Ground Check							
	AWG or MCM	No. of Stranding	AWG	AWG	inches	inches	inches	mm	lbs/1000 ft	kgs/km	A
MPGC2/0-5KV	2/0	19	3	8	0.090	0.110	1.81	46.0	2660	3970	243
MPGC4/0-5KV	4/0	37	1			0.140	2.06	52.3	3760	5600	321

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE 5000V (SIZE) GROUNDED MP-GC P-7K-254064-MSHA

15000V – 100% INSULATION LEVEL

Part Number	Power Conductor Size	Power Conductor Stranding	Size		Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal O.D.		Approx. Weight		Ampacity(1) 40ºC Ambient Temp.
			Ground	Ground Check							
	AWG or MCM	No. of Stranding	AWG	AWG	inches	inches	inches	mm	lbs./1000 ft.	kgs/km	A
MPGC2/0-15KV	2/0 AWG	19	3	8	0.175	0.140	2.20	55.9	3190	4760	246
MPGC4/0-15KV	4/0 AWG	37	1				2.45	62.2	4310	6430	325

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE 15000V (SIZE) GROUNDED MP-GC P-7K-254064-MSHA

SPECIAL FACTORY OPTIONS:

Jacket: Other colors available

MP-GC 8000V / 15000V

Mine Power Feeder Cable Extra Heavy Duty EPR / CPE 90˚C MSHA Mining Grade

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

ICEA S-75-381/NEMA WC58, ASTM B 172

CONSTRUCTION:

Conductor: Bare copper, rope strand ASTM B 172
Conductor shield: Semi-conducting tape and compound, ICEA S-75-381 sec 3.14
Insulation: Ethylene-propylene rubber (EPR), ICEA S-75-381, table 4-3/4-4
Insulation shield: Semi-conducting compound, ICEA S-75-381 and 0.005 copper tape
Grounding cond: Tin copper Class B, ICEA S-75-381, table 4-1
Ground check: Bare copper, ICEA S-75-381 table 4-1; insulation color: yellow
Assembly: Three power conductor, ground check and two non-insulated grounding conductors cabled with rubber fillers to make a round core; Single faced rubber filled binder tape applied overall
Jacket: Black extra heavy duty CPE thermoset compound, ICEA S-75-381, table 3-3, 3-22, sec. 3.21
Color code: Color code tape: black, white, red applied under metallic shielding tape provides circuit identification, ICEA S-75-381 sec 4.6

FEATURES	APPLICATION
- Ozone, sun, weather and flame resistant - Oil and heat resistant - Maximum continuous conductor temperature 90°C - Indent printed for easy identification	- For use as trailing mining cables - For use up to 8000 volts when installed in ducts, conduits, open air and for direct burial in wet and dry locations

APPROVALS:

MSHA: P-07-KA050003-1

8000V – 100% INSULATION LEVEL

Part Number	Power Conductor Size	Power Conductor Stranding	Size		Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal O.D.		Approx. Weight	
			Ground	Ground Check						
	AWG or MCM	No. of Stranding	AWG	AWG	inches	inches	inches	mm	lbs/1000 ft	kgs/km
MPGC2/0-8KVCPE	2/0 AWG	19	3	8	0.115	0.140	1.88	47.8	2900	4316

15000V – 100% INSULATION LEVEL

Part Number	Power Conductor Size	Power Conductor Stranding	Size		Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal O.D.		Approx. Weight	
			Ground	Ground Check						
	AWG or MCM	No. of Stranding	AWG	AWG	inches	inches	inches	mm	lbs/1000 ft	kgs/km
MPGC4/0-15KVCPE	4/0 AWG	37	1	8	0.175	0.140	2.40	61.0	4605	6853

ELECTRICAL AND MECHANICAL PARAMETERS

Power-Grounding Conductor Size	Power Conductor Resistance at 25˚C	Grounding Conductor Resistance at 25˚C	Ground Check Conductor Resistance at 25˚C	Inductance per length unit	Operating Capacitance per length unit	Permissible short-circuit Current(2) (1s)	Ampacity(1) 40˚C Ambient Temp.	Maximum Permissible Tension Force
AWG or MCM	Ω/1000Ft	Ω/1000Ft	Ω/1000Ft	mH/1000Ft	µF/1000Ft	kA	A	N
2/0 AWG – 3 AWG	0.081	0.213	0.652	0.098	0.14	9.64	243	4000
4/0 AWG – 1 AWG	0.051	0.134		0.093	0.16	15.30	321	6400

(1) Ampacity- Free air measured; Based on continuous duty at 90˚C conductor temperature (2) Short-circuit current (1s) – Based on conductor temperature from 90˚C up to 250˚C

STANDARD PRINT LEGEND:

TF CABLE 8000V (SIZE) GROUNDED MP-GC P-07-KA050003-1-MSHA;
TF CABLE 15000V (SIZE) GROUNDED MP-GC P-07-KA050003-1-MSHA

SPECIAL FACTORY OPTIONS:

Jacket: Other colors available
Neoprene®

Portable Power Cable Extra Heavy Duty EPR / NEO 90˚C MSHA Mining Grade

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

ICEA S-75-381/NEMA WC58, ASTM B 172, ASTM B 33

CONSTRUCTION:

Conductors: Flexible strand tinned copper conductor, ASTM B-172 and ICEA S-75-381, table 3-22
Separator: Polyester tape between conductor and insulation. ICEA S-75-381
Conductor Shield: Extruded semi-conducting layer over conductor. ICEA S-75-381 sec. 3.14
Insulation: Ethylene-propylene rubber (EPR) ICEA S-75-381, table 3-22
Insulation Shield: Non-conducting bedding tape and composite tinned copper/polyamide braid 60% minimum coverage
Color Code: Polyamide braid color code - black, white, red, ICEA S-75-381
Grounding Cond: Tinned copper - ICEA S-75-381 Tab. 3-22
Ground Check: Yellow polypropylene-insulated tinned copper conductor, ICEA S-75-381 Tab. 3-22
Cable Assembly: Three power conductors, ground check and two non-insulated grounding conductors cabled together to form a round cable core
Separator: Single faced rubber-filled binder tape applied over core
Jacket: Black, extra heavy duty, high torsion-resistant, integral-filled, reinforced Neoprene thermoset jacket, ICEA S-75-381 Tab. 3-3, 3-22, Sec. 3.21

FEATURES	APPLICATION
- Excellent flexibility - Highly ozone, sun, weather, water and flame resistant - Rated and flexible at –40ºC - Excellent impact and abrasion resistant - Oil and heat resistant - Indent printed for easy identification	- Use on AC off track equipment such as longwall miners loaders, drills, conveyors, pumps and mobile equipment requiring grounding conductors and a ground check conductor and metallic shielding overall - Maximum continuous conductor temperature is 90ºC

APPROVALS:

MSHA: P-07-KA060012

Part Number	Power Conductor Size	Power Conductor Stranding	Ground Check Conductor Size	Grounding Conductor		Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal O.D.		Approx. Weight	
				Size	Stranding						
	AWG or MCM	No. of Stranding	AWG	AWG	No. of Wires	inches	inches	inches	mm	lbs/1000ft	kgs/km
SHDGC2KV6-3	6 AWG	133 7x19	10	10	49 7x7	0.070	0.155	1.26	32.0	1076	1601
SHDGC2KV4-3	4 AWG	259 7x37	10	8	133 7x19	0.070	0.155	1.36	34.5	1308	1947
SHDGC2KV2-3	2 AWG	259 7x37	10	6	133 7x19	0.070	0.170	1.55	39.4	1874	2789
SHDGC2KV1/0-3	1/0 AWG	266 19x14	8	4	259 7x37	0.080	0.190	1.81	46.0	2694	4009
SHDGC2KV2/0-3	2/0 AWG	342 19x18	8	3	259 7x37	0.080	0.205	1.94	49.3	3301	4913
SHDGC2KV4/0-3	4/0 AWG	532 19x28	8	1	259 7x37	0.080	0.220	2.24	56.9	4701	6996

ELECTRICAL AND MECHANICAL PARAMETERS

Conductor Size		Power Conductor Resistance at 25˚C	Grounding Conductor Resistance at 25˚C	Ground Check Conductor Resistance at 25˚C	Inductance per unit length	Operating Capacitance per unit length	Permissible Short-Circuit Current(2) (1s)	Ampacity(1) 40˚C Ambient Temp.	Maximum Permissible Tensile Force
Power	Grounding								
AWG or MCM		Ω/1000Ft	Ω/1000Ft	Ω/1000Ft	mH/1000Ft	µF/1000Ft	kA	A	N
6 AWG	10 AWG	0.436	1.109	0.679	0.118	0.09	1.90	93	600
4 AWG	8 AWG	0.274	0.697		0.107	0.11	3.03	122	950
2 AWG	6 AWG	0.172	0.436		0.101	0.13	4.80	159	1500
1/0 AWG	4 AWG	0.109	0.274		0.097	0.14	7.65	211	2400
2/0 AWG	3 AWG	0.0868	0.227		0.092	0.16	9.64	243	3000
4/0 AWG	1 AWG	0.0546	0.137		0.088	0.19	15.30	321	4800

(1) Ampacity- Free air measured; Based on continuous duty at 90˚C conductor temperature (2) Short-circuit current (1s) – Based on conductor temperature from 90˚C up to 250˚C

STANDARD PRINT LEGEND:

TF CABLE (VOLTAGE) (SIZE) TYPE SHD-GC
FT1 FT5 (-50C) +90C P-07-KA060012-MSHA

SPECIAL FACTORY OPTIONS:

Jacket: Red, yellow, green, orange, blue
MSHA: P-7K-268101 (CPE)
Jacket: TPU Red, yellow, green, orange, blue
MSHA: P-07-KA030001 (TPU)

SHD-GC 2000V

Portable Power Cable Extra Heavy Duty EPR / NEO 90˚C CSA MSHA Mining Grade

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

ICEA S-75-381/NEMA WC58, ASTM B 172, ASTM B 33, CSA C22.2 No. 96-03

CONSTRUCTION:

Conductors: Flexible strand tinned copper, ASTM B 172 and ASTM B33, C22.2 No. 96-03 sec4.3.1 table 3
Separator: Polyester tape between conductor and insulation
Conductor Shield: Extruded semi-conducting layer over conductor. C22.2 No. 96-03
Insulation: Ethylene-propylene rubber (EPR) C22.2 No. 96-03 sec 4.3.3
Insulation Shield: Non-conducting bedding tape and composite tinned copper/polyamide braid 60% minimum coverage
Color Code: Polyamide braid color code - black, red, blue C22.2 No. 96-03 table 1
Grounding Cond: Tinned copper - C22.2 No. 96-03 sec 4.3.5
Ground Check: Yellow polypropylene-insulated tinned copper conductor, C22.2 No. 96-03 sec 4.3.3/4.3.7
Cable Assembly: Three power conductors, ground check and two non-insulated grounding conductors cabled together to form a round cable core
Separator: Single faced rubber-filled binder tape applied over core
Jacket: Black, extra heavy duty, high torsion-resistant, integral-filled, reinforced Neoprene thermoset jacket, C22.2 No. 96-03 sec 4.3.9 table 2

FEATURES	APPLICATION
- Excellent flexibility - Highly ozone, sun, weather, water and flame resistant - Rated and flexible at –40ºC - Excellent impact and abrasion resistant - Oil and heat resistant - Indent printed for easy identification	- Use on AC off track equipment such as longwall miners loaders, drills, conveyors, pumps and mobile equipment requiring grounding conductors and a ground check conductor and metallic shielding overall - Maximum continuous conductor temperature is 90ºC

APPROVALS:

CSA: 1523058 (LR 103932) - FT1; FT5; -50˚C + 90˚C
MSHA: P-07-KA060012

Part Number	Power Conductor Size	Power Conductor Stranding	Ground Check Conductor Size	Grounding Conductor		Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal O.D.		Approx. Weight	
				Size	Stranding						
	AWG or MCM	No. of Stranding	AWG	AWG	No. of Wires	inches	inches	inches	mm	lbs/1000ft	kgs/km
SHDGC2KV6-3CSA	6 AWG	133 7x19	10	10	49 7x7	0.070	0.155	1.26	32.0	1076	1601
SHDGC2KV2-3CSA	2 AWG	259 7x37	10	6	133 7x19	0.070	0.170	1.36	34.5	1308	1947
SHDGC2KV1-3CSA	1 AWG	259 7x37	8	5	133 7x19	0.080	0.170	1.55	39.4	1874	2789
SHDGC2KV1/0-3CSA	1/0 AWG	266 19x14	8	4	259 7x37	0.080	0.190	1.81	46.0	2694	4009
SHDGC2KV2/0-3CSA	2/0 AWG	342 19x18	8	3	259 7x37	0.080	0.205	1.94	49.3	3301	4913
SHDGC2KV4/0-3CSA	4/0 AWG	532 19x28	8	1	259 7x37	0.080	0.220	2.24	56.9	4701	6996

ELECTRICAL AND MECHANICAL PARAMETERS

Conductor Size		Power Conductor Resistance at 25˚C	Grounding Conductor Resistance at 25˚C	Ground Check Conductor Resistance at 25˚C	Inductance per unit length	Operating Capacitance per unit length	Permissible Short-Circuit Current(2) (1s)	Ampacity(1) 40˚C Ambient Temp.	Maximum Permissible Tensile Force
Power	Grounding								
AWG or MCM		Ω/1000Ft	Ω/1000Ft	Ω/1000Ft	mH/1000Ft	µF/1000Ft	kA	A	N
6 AWG	10 AWG	0.436	1.109	0.679	0.118	0.09	1.90	93	600
2 AWG	6 AWG	0.172	0.436		0.101	0.13	4.80	159	1500
1 AWG	5 AWG	0.137	0.349		0.100	0.13	6.06	184	1900
1/0 AWG	4 AWG	0.109	0.274		0.097	0.14	7.65	211	2400
2/0 AWG	3 AWG	0.0868	0.227		0.092	0.16	9.64	243	3000
4/0 AWG	1 AWG	0.0546	0.137		0.088	0.19	15.30	321	4800

(1) Ampacity- Free air measured; Based on continuous duty at 90˚C conductor temperature (2) Short-circuit current (1s) – Based on conductor temperature from 90˚C up to 250˚C

STANDARD PRINT LEGEND:

TF CABLE 2000V (SIZE) TYPE SHD-GC CSA LR 103932
FT1 FT5 (-50C) +90C P-07-KA060012-MSHA

SPECIAL FACTORY OPTIONS:

Jacket: Red, yellow, green, orange, blue
MSHA: P-7K-268101 (CPE)
Jacket: TPU Red, yellow, green, orange, blue
MSHA: P-07-KA030001 (TPU)

Portable Power Cable Extra Heavy Duty EPR / NEO 90˚C MSHA Mining Grade

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

ICEA S-75-381/NEMA WC58, ASTM B 172, ASTM B 33

CONSTRUCTION:

Conductors: Flexible strand tinned copper conductor, ASTM B-172 and ICEA S-75-381, table 3-22
Separator: Polyester tape between conductor and insulation. ICEA S-75-381
Conductor Shield: Extruded semi-conducting layer over conductor. ICEA S-75-381 sec. 3.14
Insulation: Ethylene-propylene rubber (EPR) ICEA S-75-381, table 3-22
Insulation Shield: Non-conducting bedding tape and composite tinned copper/polyamide braid 60% minimum coverage
Color Code: Polyamide braid color code - black, white, red, ICEA S-75-381
Grounding Cond: Tinned copper - ICEA S-75-381 Tab. 3-22
Ground Check: Yellow polypropylene-insulated tinned copper conductor, ICEA S-75-381 Tab. 3-22
Cable Assembly: Three power conductors, ground check and two non-insulated grounding conductors cabled together to form a round cable core
Separator: Single faced rubber-filled binder tape applied over core
Jacket: Black, extra heavy duty, high torsion-resistant, integral-filled, reinforced Neoprene thermoset jacket, ICEA S-75-381 Tab. 3-3, 3-22, Sec. 3.21

FEATURES	APPLICATION
- Excellent flexibility - Highly ozone, sun, weather, water and flame resistant - Rated and flexible at –40ºC - Excellent impact and abrasion resistant - Oil and heat resistant - Indent printed for easy identification	- Use on AC off track equipment such as longwall miners loaders, drills, conveyors, pumps and mobile equipment requiring grounding conductors and a ground check conductor and metallic shielding overall - Maximum continuous conductor temperature is 90ºC

APPROVALS:

MSHA: P-07-KA060012

Part Number	Power Conductor Size	Power Conductor Stranding	Ground Check Conductor Size	Grounding Conductor		Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal O.D.		Approx. Weight	
				Size	Stranding						
	AWG or MCM	No. of Stranding	AWG	AWG	No. of Wires	inches	inches	inches	mm	lbs/1000ft	kgs/km
SHDGC5KV4-3	4 AWG	259 7x37	8	8	133 7x19	0.110	0.185	1.68	42.7	1769	2633
SHDGC5KV2-3	2 AWG	259 7x37		6	133 7x19	0.110	0.205	1.87	47.5	2370	3527
SHDGC5KV1-3	1 AWG	259 7x37		5	133 7x19	0.110	0.205	1.95	49.5	2660	3959
SHDGC5KV1/0-3	1/0 AWG	266 19x14		4	259 7x37	0.110	0.220	2.08	52.8	3200	4762
SHDGC5KV2/0-3	2/0 AWG	342 19x18		3	259 7x37	0.110	0.220	2.20	55.9	3615	5380
SHDGC5KV4/0-3	4/0 AWG	532 19x28		1	259 7x37	0.110	0.235	2.50	63.5	5059	7529
SHDGC5KV350-3	350 MCM	888 37x24		2/0	342 19x18	0.120	0.265	2.95	74.9	7700	11458
SHDGC5KV500-3	500 MCM	1221 37x33		4/0	532 19x28	0.120	0.280	3.31	84.1	10200	15178

ELECTRICAL AND MECHANICAL PARAMETERS

Conductor Size		Power Conductor Resistance at 25˚C	Grounding Conductor Resistance at 25˚C	Ground Check Conductor Resistance at 25˚C	Inductance per unit length	Operating Capacitance per unit length	Permissible Short-Circuit Current[2] (1s)	Ampacity[1] 40˚C Ambient Temp.	Maximum Permissible Tensile Force
Power	Grounding								
AWG or MCM		Ω/1000Ft	Ω/1000Ft	Ω/1000Ft	mH/1000Ft	µF/1000Ft	kA	A	N
4 AWG	8 AWG	0.274	0.697	0.679	0.107	0.11	3.03	122	950
2 AWG	6 AWG	0.172	0.436	0.679	0.101	0.13	4.80	159	1500
1 AWG	5 AWG	0.137	0.349	0.679	0.100	0.13	6.06	184	1900
1/0 AWG	4 AWG	0.109	0.274	0.679	0.097	0.14	7.65	211	2400
2/0 AWG	3 AWG	0.0868	0.227	0.679	0.092	0.16	9.64	243	3000
4/0 AWG	1 AWG	0.0546	0.137	0.679	0.088	0.19	15.30	321	4800
350 MCM	2/0 AWG	0.0333	0.0868	0.436	0.081	0.24	25.31	435	7900
500 MCM	4/0 AWG	0.0233	0.0546	0.436	0.078	0.28	36.18	536	11400

(1) Ampacity- Free air measured; Based on continuous duty at 90˚C conductor temperature (2) Short-circuit current (1s) – Based on conductor temperature from 90˚C up to 250˚C

STANDARD PRINT LEGEND:

TF CABLE (VOLTAGE) (SIZE) TYPE SHD-GC
FT1 FT5 (-50C) +90C P-07-KA060012-MSHA

SPECIAL FACTORY OPTIONS:

Jacket: Red, yellow, green, orange, blue
MSHA: P-7K-268101 (CPE)
Jacket: TPU Red, yellow, green, orange, blue
MSHA: P-07-KA030001 (TPU)

SHD-GC 5000V

Portable Power Cable Extra Heavy Duty EPR / NEO 90˚C CSA MSHA Mining Grade

SPECIFICATIONS & STANDARDS

ICEA S-75-381/NEMA WC58, ASTM B 172, ASTM B 33, CSA C22.2 No. 96-03

CONSTRUCTION:

Conductors: Flexible strand tinned copper, ASTM B 172 and ASTM B33, C22.2 No. 96-03 sec4.3.1 table 3
Separator: Polyester tape between conductor and insulation
Conductor Shield: Extruded semi-conducting layer over conductor. C22.2 No. 96-03
Insulation: Ethylene-propylene rubber (EPR) C22.2 No. 96-03 sec 4.3.3
Insulation Shield: Non-conducting bedding tape and composite tinned copper/polyamide braid 60% minimum coverage
Color Code: Polyamide braid color code - black, red, blue C22.2 No. 96-03 table 1
Grounding Cond: Tinned copper - C22.2 No. 96-03 sec 4.3.5
Ground Check: Yellow polypropylene-insulated tinned copper conductor, C22.2 No. 96-03 sec 4.3.3/4.3.7
Cable Assembly: Three power conductors, ground check and two non-insulated grounding conductors cabled together to form a round cable core
Separator: Single faced rubber-filled binder tape applied over core
Jacket: Black, extra heavy duty, high torsion-resistant, integral-filled, reinforced Neoprene thermoset jacket, C22.2 No. 96-03 sec 4.3.9 table 2

FEATURES	APPLICATION
- Excellent flexibility - Highly ozone, sun, weather, water and flame resistant - Rated and flexible at –40ºC - Excellent impact and abrasion resistant - Oil and heat resistant - Indent printed for easy identification	- Use on AC off track equipment such as longwall miners loaders, drills, conveyors, pumps and mobile equipment requiring grounding conductors and a ground check conductor and metallic shielding overall - Maximum continuous conductor temperature is 90ºC

APPROVALS:

CSA: 1523058 (LR 103932) - FT1; FT5; -50˚C + 90˚C
MSHA: P-07-KA060012

Part Number	Power Conductor Size	Power Conductor Stranding	Ground Check Conductor Size	Grounding Conductor		Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal O.D.		Approx. Weight	
				Size	Stranding						
	AWG or MCM	No. of Stranding	AWG	AWG	No. of Wires	inches	inches	inches	mm	lbs/1000ft	kgs/km
SHDGC5KV2-3CSA	2 AWG	259 7x37	8	6	133 7x19	0.110	0.205	1.87	47.5	2370	3527
SHDGC5KV1/0-3CSA	1/0 AWG	266 19x14		4	259 7x37	0.110	0.220	2.08	52.8	3200	4762
SHDGC5KV2/0-3CSA	2/0 AWG	342 19x18		3	259 7x37	0.110	0.220	2.20	55.9	3615	5380

ELECTRICAL AND MECHANICAL PARAMETERS

Conductor Size		Power Conductor Resistance at 25˚C	Grounding Conductor Resistance at 25˚C	Ground Check Conductor Resistance at 25˚C	Inductance per unit length	Operating Capacitance per unit length	Permissible Short-Circuit Current[2] (1s)	Ampacity[1] 40˚C Ambient Temp.	Maximum Permissible Tensile Force
Power	Grounding								
AWG or MCM		Ω/1000Ft	Ω/1000Ft	Ω/1000Ft	mH/1000Ft	µF/1000Ft	kA	A	N
2 AWG	6 AWG	0.172	0.436	0.679	0.101	0.13	4.80	159	1500
1/0 AWG	4 AWG	0.109	0.274	0.679	0.097	0.14	7.65	211	2400
2/0 AWG	3 AWG	0.0868	0.227	0.679	0.092	0.16	9.64	243	3000

(1) Ampacity- Free air measured; Based on continuous duty at 90˚C conductor temperature (2) Short-circuit current (1s) – Based on conductor temperature from 90˚C up to 250˚C

STANDARD PRINT LEGEND:

TF CABLE 2000V (SIZE) TYPE SHD-GC CSA
LR 103932 FT1 FT5 (-50C) +90C P-07-KA060012-MSHA

SPECIAL FACTORY OPTIONS:

Jacket: Red, yellow, green, orange, blue
MSHA: P-7K-268101 (CPE)
Jacket: TPU Red, yellow, green, orange, blue
MSHA: P-07-KA030001 (TPU)

Portable Power Cable Extra Heavy Duty EPR / NEO 90˚C MSHA Mining Grade

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

ICEA S-75-381/NEMA WC58, ASTM B 172, ASTM B 33

CONSTRUCTION:

Conductors: Flexible strand tinned copper conductor, ASTM B-172 and ICEA S-75-381, table 3-22
Separator: Polyester tape between conductor and insulation. ICEA S-75-381
Conductor Shield: Extruded semi-conducting layer over conductor. ICEA S-75-381 sec. 3.14
Insulation: Ethylene-propylene rubber (EPR) ICEA S-75-381, table 3-22
Insulation Shield: Semi-conducting bedding tape and composite tinned copper/polyamide braid 60% minimum coverage
Color Code: Polyamide braid color code - black, white, red, ICEA S-75-381
Grounding Cond: Tinned copper - ICEA S-75-381 Tab. 3-22
Ground Check: Yellow polypropylene-insulated tinned copper conductor, ICEA S-75-381 Tab. 3-22
Cable Assembly: Three power conductors, ground check and two non-insulated grounding conductors cabled together to form a round cable core
Separator: Single faced rubber-filled binder tape applied over core
Jacket: Black, extra heavy duty, high torsion-resistant, integral-filled, reinforced Neoprene thermoset jacket, ICEA S-75-381 Tab. 3-3, 3-22, Sec. 3.21

FEATURES	APPLICATION
- Excellent flexibility - Highly ozone, sun, weather, water and flame resistant - Rated and flexible at –40ºC - Excellent impact and abrasion resistant - Oil and heat resistant - Indent printed for easy identification	- Use on AC off track equipment such as longwall miners loaders, drills, conveyors, pumps and mobile equipment requiring grounding conductors and a ground check conductor and metallic shielding overall - Maximum continuous conductor temperature is 90ºC

APPROVALS:

MSHA: P-07-KA060012

Part Number	Power Conductor Size	Power Conductor Stranding	Ground Check Conductor Size	Grounding Conductor		Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal O.D.		Approx. Weight	
				Size	Stranding						
	AWG or MCM	No. of Stranding	AWG	AWG	No. of Wires	inches	inches	inches	mm	lbs/1000 ft	kgs/km
SHDGC8KV1/0-3	1/0 AWG	266 19x14	8	4	259 7x37	0.150	0.220	2.32	58.9	3530	5112
SHDGC8KV2/0-3	2/0 AWG	342 19x18		3	259 7x37	0.150	0.235	2.46	62.5	4160	6191
SHDGC8KV4/0-3	4/0 AWG	532 19x28		1	259 7x37	0.150	0.250	2.75	69.9	5590	8319
SHDGC15KV2-3	2 AWG	259 7x37	8	6	133 7x19	0.210	0.235	2.41	61.2	3505	5216
SHDGC15KV1/0-3	1/0 AWG	266 19x14		4	259 7x37	0.210	0.250	2.64	67.1	4614	6867
SHDGC15KV2/0-3	2/0 AWG	342 19x18		3	259 7x37	0.210	0.250	2.73	69.3	4895	7285
SHDGC15KV4/0-3	4/0 AWG	532 19x28		1	259 7x37	0.210	0.265	3.05	77.5	6821	10151

ELECTRICAL AND MECHANICAL PARAMETERS

Power-Grounding Conductor Size	Power Conductor Resistance at 25˚C	Grounding Conductor Resistance at 25˚C	Ground Check Conductor Resistance at 25˚C	Inductance per unit length	Operating Capacitance per unit length	Permissible Short-Circuit Current(2) (1s)	Ampacity(1) 40˚C Ambient Temp.	Maximum Permissible Tensile Force
AWG or MCM	Ω/1000Ft	Ω/1000Ft	Ω/1000Ft	mH/1000Ft	µF/1000Ft	kA	A	N
2 AWG – 6 AWG	0.172	0.436	0.679	0.122	0.09	4.80	159	1500
1/0 AWG – 4 AWG	0.109	0.274		0.113	0.10	7.65	211	2400
2/0 AWG – 3 AWG	0.0868	0.227		0.107	0.11	9.64	243	3000
4/0 AWG – 1 AWG	0.0546	0.137		0.101	0.13	15.30	321	4800

(1) Ampacity- Free air measured; Based on continuous duty at 90˚C conductor temperature (2) Short-circuit current (1s) – Based on conductor temperature from 90˚C up to 250˚C

STANDARD PRINT LEGEND:

TF CABLE (VOLTAGE) (SIZE) TYPE SHD-GC
FT1 FT5 (-50C) +90C P-07-KA060012-MSHA

SPECIAL FACTORY OPTIONS:

Jacket: Red, yellow, green, orange, blue
MSHA: P-7K-268101 (CPE)
Jacket: TPU Red, yellow, green, orange, blue
MSHA: P-07-KA030001 (TPU)

SHD-GC 8000V / 15000V

Portable Power Cable Extra Heavy Duty EPR / NEO 90˚C CSA MSHA Mining Grade

SPECIFICATIONS & STANDARDS

ICEA S-75-381/NEMA WC58, ASTM B 172, ASTM B 33, CSA C22.2 No. 96-03

CONSTRUCTION:

Conductors: Flexible strand tinned copper, ASTM B 172 and ASTM B33, C22.2 No. 96-03 sec4.3.1 table 3
Separator: Polyester tape between conductor and insulation
Conductor Shield: Extruded semi-conducting layer over conductor. C22.2 No. 96-03
Insulation: Ethylene-propylene rubber (EPR) C22.2 No. 96-03 sec 4.3.3
Insulation Shield: Semi-conducting bedding tape and composite tinned copper/polyamide braid 60% minimum coverage
Color Code: Polyamide braid color code - black, red, blue C22.2 No. 96-03 table 1
Grounding Cond: Tinned copper - C22.2 No. 96-03 sec 4.3.5
Ground Check: Yellow polypropylene-insulated tinned copper conductor, C22.2 No. 96-03 sec 4.3.3/4.3.7
Cable Assembly: Three power conductors, ground check and two non-insulated grounding conductors cabled together to form a round cable core
Separator: Single faced rubber-filled binder tape applied over core
Jacket: Black, extra heavy duty, high torsion-resistant, integral-filled, reinforced Neoprene thermoset jacket, C22.2 No. 96-03 sec 4.3.9 table 2

FEATURES	APPLICATION
- Excellent flexibility - Highly ozone, sun, weather, water and flame resistant - Rated and flexible at –40ºC - Excellent impact and abrasion resistant - Oil and heat resistant - Indent printed for easy identification	- Use on AC off track equipment such as longwall miners loaders, drills, conveyors, pumps and mobile equipment requiring grounding conductors and a ground check conductor and metallic shielding overall - Maximum continuous conductor temperature is 90ºC

APPROVALS:

CSA: 1523058 (LR 103932) - FT1; FT5; -50˚C + 90˚C
MSHA: P-07-KA060012

Part Number	Power Conductor Size	Power Conductor Stranding	Ground Check Conductor Size	Grounding Conductor		Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal O.D.		Approx. Weight	
				Size	Stranding						
	AWG or MCM	No. of Stranding	AWG	AWG	No. of Wires	inches	inches	inches	mm	lbs/1000 ft	kgs/km
SHDGC8KV1-3CSA	1 AWG	259 7x37	8	5	133 7x19	0.150	0.220	2.21	56.0	3300	4911
SHDGC8KV1/0-3CSA	1/0 AWG	266 19x14		4	259 7x37		0.220	2.32	58.9	3530	5112
SHDGC8KV2/0-3CSA	2/0 AWG	342 19x18		3	259 7x37		0.235	2.46	62.5	4160	6191
SHDGC15KV4/0-3	4/0 AWG	532 19x28	8	1	259 7x37	0.210	0.265	3.05	77.5	6821	10151

ELECTRICAL AND MECHANICAL PARAMETERS

Power-Grounding Conductor Size	Power Conductor Resistance at 25˚C	Grounding Conductor Resistance at 25˚C	Ground Check Conductor Resistance at 25˚C	Inductance per unit length	Operating Capacitance per unit length	Permissible Short-Circuit Current[2] (1s)	Ampacity[1] 40˚C Ambient Temp.	Maximum Permissible Tensile Force
AWG or MCM	Ω/1000Ft	Ω/1000Ft	Ω/1000Ft	mH/1000Ft	µF/1000Ft	kA	A	N
1 AWG - 5 AWG	0.137	0.349	0.679	0.117	0.09	6.06	184	1900
1/0 AWG – 4 AWG	0.109	0.274		0.113	0.10	7.65	211	2400
2/0 AWG – 3 AWG	0.0868	0.227		0.107	0.11	9.64	243	3000
4/0 AWG – 1 AWG	0.0546	0.137		0.101	0.13	15.30	321	4800

(1) Ampacity- Free air measured; Based on continuous duty at 90˚C conductor temperature (2) Short-circuit current (1s) – Based on conductor temperature from 90˚C up to 250˚C

STANDARD PRINT LEGEND:

TF CABLE (VOLTAGE) (SIZE) TYPE SHD-GC CSA LR 103932
FT1 FT5 (-50C) +90C P-07-KA060012-MSHA

SPECIAL FACTORY OPTIONS:

Jacket: Red, yellow, green, orange, blue
MSHA: P-7K-268101 (CPE)
Jacket: TPU Red, yellow, green, orange, blue
MSHA: P-07-KA030001 (TPU)

Portable Cord -40˚C + 90˚C UL CSA MSHA
Hard Usage - Medium Grade Mechanical Service

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

UL 62, CSA-C 22.2 No 49

CONSTRUCTION:

Conductors: Flexible strand bare copper, ASTM B-174 and UL 62
Insulation: EPR 90ºC compound class 3 table 8 UL 62
Assembly: Insulated conductors cabled together: integral filled jacket
Separator: Paper tape or talc for 18-10 AWG
Jacket: Black CPE compound class, 90˚C + class 1.4, table 11, UL 62 integral fill
Color code: ICEA S-58-679, Method 1, table 1, black, white, green

FEATURES	APPLICATION
- Excellent flexibility, resistance to oil, solvents, ozone, weather, sunlight and water - Flame test: meets VW-1, FT2, MSHA - Temperature range: -40ºC to +90ºC - Suitable for shallow water immersion	- Industrial and processing equipment, cranes and hoists, track systems, tools, construction equipment, motors and associated machinery, garage portable lights, battery charger and equipment exposed to oils, solvents, flame, moisture and other electrical equipment

APPROVALS:

UL: E123366 (CPE)
CSA: 1534535 (LL 103932) (CPE)
MSHA: P-7K-254013 (CPE)

Part Number	Conductor Size	No. of Conductors	Power Conductor Stranding	Nominal Insulation Thickness		Nominal Jacket Thickness		Nominal O.D.		Approx. Weight	Ampacity (1) 30ºC Ambient Temp.
	AWG		No. of Stranding	inches	mm	inches	mm	inches	mm	lbs/1000 ft	A
SJOOW18-2 IF	18	2	16 / 30	0.030	0.76	0.030	0.76	0.28	7.2	42	10.0
SJOOW18-3 IF		3						0.30	7.7	52	10.0
SJOOW18-4 IF		4						0.33	8.4	63	7.0
SJOOW16-2 IF	16	2	26 / 30	0.030	0.76	0.030	0.76	0.31	7.9	53	13.0
SJOOW16-3 IF		3						0.33	8.4	66	13.0
SJOOW16-4 IF		4						0.36	9.1	83	10.0
SJOOW14-2 IF	14	2	41 / 30	0.030	0.76	0.030	0.76	0.34	8.7	68	18.0
SJOOW14-3 IF		3						0.36	9.2	88	18.0
SJOOW14-4 IF		4						0.40	10.1	110	15.0
SJOOW12-2 IF	12	2	65 / 30	0.030	0.76	0.045	1.14	0.41	10.4	104	25.0
SJOOW12-3 IF		3						0.43	10.9	131	25.0
SJOOW12-4 IF		4						0.47	11.9	163	20.0
SJOOW10-2 IF	10	2	103 / 30	0.045	1.14	0.060	1.52	0.54	13.8	177	30.0
SJOOW10-3 IF		3						0.58	14.6	225	30.0
SJOOW10-4 IF		4						0.63	16.0	279	25.0

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE FLEXTREME (COND) (SIZE) (mm^2) (UL) TYPE SJOOW E123366 90C SUN & WATER RES 300V CSA TYPE SJOOW 90C LL 103932 FT2 -40C P-7K-254013 MSHA

SPECIAL FACTORY OPTIONS:

Color jacket: Yellow, Orange

Portable Cord -40˚C + 90˚C UL CSA MSHA
Extra Hard Usage - High Grade Mechanical Service

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

UL 62/CSA-C 22.2 No 49

CONSTRUCTION:

Conductors: Flexible stranded bare copper, ASTM B-174 and UL 62
Insulation: EPR compound, 90˚C compound class 3, table 8, UL 62
Assembly: Insulated conductors cabled together with integral filled or rubber fillers
Separator: Paper tape or talc for 18-10 AWG / Polyester tape for 8-2 AWG
Jacket: Black CPE 90˚C compound class 1.4, table 22, UL 62
Color code: ICEA S-58-679, Method 1, table 1; 2/c, 3/c - black, white, green; 4/c, 5/c - black, white, red, green, orange

FEATURES	APPLICATION
- Excellent flexibility, resistance to oil, solvents, ozone, weather, sunlight and water - Flame test meets VW-1, FT2, and MSHA - Temperature range: -40ºC to +90ºC - Suitable for shallow water immersion	- Industrial and processing equipment, cranes and hoists, track systems, tools, construction equipment, motors and associated machinery, garage portable lights, battery charger and equipment exposed to oils, solvents, flame, moisture and other electrical equipment

APPROVALS:

UL: E123366
CSA: 1534535 (LL 103932)
MSHA: P-7K-254013

Part Number	Power Conductor Size	No. of Conductors	Power Conductor Stranding	Nominal Insulation Thickness		Nominal Jacket Thickness		Nominal O.D.		Approx. Weight	Ampacity (1) 30ºC Ambient Temp.
	AWG		No. of Stranding	inches	mm	inches	mm	inches	mm	lbs/1000 ft	A
SOOW18-2 IF	18	2	16 / 30	0.030	0.76	0.060	1.52	0.34	8.6	63	10.0
SOOW18-3 IF		3						0.36	9.1	74	10.0
SOOW18-4 IF		4						0.39	9.8	87	7.0
SOOW16-2 IF	16	2	26 / 30	0.030	0.76	0.060	1.52	0.37	9.3	76	13.0
SOOW16-3 IF		3						0.39	10.1	90	13.0
SOOW16-4 IF		4						0.42	10.5	107	10.0
SOOW14-2 IF	14	2	41 / 30	0.045	1.14	0.080	2.03	0.50	12.6	137	18.0
SOOW14-3 IF		3						0.52	13.3	161	18.0
SOOW14-4 IF		4						0.57	14.4	192	15.0
SOOW12-2 IF	12	2	65 / 30	0.045	1.14	0.095	2.41	0.57	14.4	184	25.0
SOOW12-3 IF		3						0.59	15.2	217	25.0
SOOW12-4 IF		4						0.64	16.5	261	20.0
SOOW10-2 IF	10	2	104 / 30	0.045	1.14	0.095	2.41	0.62	15.6	230	30.0
SOOW10-3 IF		3						0.65	16.5	281	30.0
SOOW10-4 IF		4						0.70	17.8	336	25.0

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE FLEXTREME (COND) (SIZE) (mm^2) (UL) SOOW E123366 90C SUN & WATER RES 600V CSA 1534535 SOOW 90C LL 103932 FT2 -40C P-7K-254013 MSHA

SPECIAL FACTORY OPTIONS:

Color jacket: Yellow, Orange
SOOW/H07: European harmonized dual rating

Power Cable -40˚C + 90˚C UL CSA MSHA
Extra Hard Usage - High Grade Mechanical Service

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

UL 62/CSA-C 22.2 No 49

CONSTRUCTION:

Conductors: Stranded bare copper, ASTM B-173 and UL 62
Insulation: EPR compound, 90˚C compound class 3, table 8, UL 62
Assembly: Insulated conductors cabled together with integral filled or rubber fillers
Separator: Polyester tape for 8-2 AWG
Jacket: Black CPE 90˚C compound class 1.4, UL 62, table 15
Color code: ICEA S-58-679, Method 1, table 1; 2/c, 3/c - black, white, green; 4/c, 5/c - black, white, red, green, orange

FEATURES	APPLICATION
- Excellent flexibility, resistance to oil, solvents, ozone, weather, sunlight and water - Flame test meets VW-1, FT2, and MSHA - Temperature range: -40ºC to +90ºC - Suitable for shallow water immersion	- Industrial and processing equipment, cranes and hoists, track systems, tools, construction equipment, motors and associated machinery, garage portable lights, battery charger and equipment exposed to oils, solvents, flame, moisture and other electrical equipment

APPROVALS:

UL: E123366
CSA: 1534535 (LL 103932)
MSHA: P-7K-254013

Part Number	Power Conductor Size	No. of Conductors	Power Conductor Stranding	Nominal Insulation Thickness		Nominal Jacket Thickness		Nominal O.D.		Approx. Weight	Ampacity (1) 30ºC Ambient Temp.
	AWG		No. and Diameter of Stranding	inches	mm	inches	mm	inches	mm	lbs/1000 ft	A
SOOW8-2 IF UL/CSA	8	2	67 / 0.0156	0.060	1.52	0.110	2.79	0.78	19.8	367	40.0
SOOW8-3 IF UL/CSA		3				0.110	2.79	0.83	21.1	452	40.0
SOOW8-4 IF UL/CSA		4				0.125	3.18	0.93	23.5	577	35.0
SOOW8-5 IF UL/CSA		5				0.125	3.18	1.00	25.4	683	28.0
SOOW6-2 IF UL/CSA	6	2	184 / 0.0117	0.060	1.52	0.125	3.18	0.92	23.4	525	55.0
SOOW6-3 IF UL/CSA		3				0.125	3.18	0.97	24.6	641	55.0
SOOW6-4 IF UL/CSA		4				0.140	3.56	1.05	26.7	785	45.0
SOOW6-5 IF UL/CSA		5				0.140	3.56	1.18	30.0	983	36.0
SOOW4-2 IF UL/CSA	4	2	165 / 0.0156	0.060	1.52	0.410	3.56	1.06	26.9	728	70.0
SOOW4-3 IF UL/CSA		3				0.140	3.56	1.13	28.7	913	70.0
SOOW4-4 IF UL/CSA		4				0.155	3.94	1.25	31.8	1156	60.0
SOOW4-5 IF UL/CSA		5				0.155	3.94	1.31	33.2	1318	48.0
SOOW2-2 IF UL/CSA	2	2	262 / 0.0156	0.060	1.52	0.155	3.94	1.21	30.7	1000	95.0
SOOW2-3 IF UL/CSA		3				0.155	3.94	1.30	33.1	1287	95.0
SOOW2-4 IF UL/CSA		4				0.170	4.32	1.45	36.8	1644	80.0
SOOW2-5 IF UL/CSA		5				0.170	4.32	1.53	38.8	1900	64.0

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE FLEXTREME (COND) (SIZE) (mm²) (UL) SOOW E123366 90C SUN & WATER RES 600V CSA 1534535 SOOW 90C LL 103932 FT2 -40C P-7K-254013 MSHA

SPECIAL FACTORY OPTIONS:

Color jacket: Yellow, Orange
SOOW/H07: European harmonized dual rating

Power Cable -40˚C + 90˚C MSHA
Extra Hard Usage - High Grade Mechanical Service

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

UL 62/CSA-C 22.2 No 49

CONSTRUCTION:

Conductors: Stranded bare copper, ASTM B-173 and UL 62
Insulation: EPR compound, 90˚C compound class 3, table 8, UL 62
Assembly: Insulated conductors cabled together with integral filled or rubber fillers
Separator: Polyester tape for 8-2 AWG
Jacket: Black CPE 90˚C compound class 1.4, UL 62, table 15
Color code: ICEA S-58-679, Method 1, table 1; 2/c, 3/c - black, white, green; 4/c, 5/c - black, white, red, green, orange

FEATURES	APPLICATION
- Excellent flexibility, resistance to oil, solvents, ozone, weather, sunlight and water - Flame test meets VW-1, FT2, and MSHA - Temperature range: -40ºC to +90ºC - Suitable for shallow water immersion	- Industrial and processing equipment, cranes and hoists, track systems, tools, construction equipment, motors and associated machinery, garage portable lights, battery charger and equipment exposed to oils, solvents, flame, moisture and other electrical equipment

APPROVALS:

MSHA: P-7K-254013

Part Number	Power Conductor Size	No. of Conductors	Power Conductor Stranding	Nominal Insulation Thickness		Nominal Jacket Thickness		Nominal O.D.		Approx. Weight	Ampacity (1) 30ºC Ambient Temp.
	AWG		No. and Diameter of Stranding	inches	mm	inches	mm	inches	mm	lbs/1000 ft	A
SOOW8-2 IF	8	2	67 / 0.0156	0.050	1.27	0.060	1.52	0.64	16.1	258	40
SOOW8-3 IF		3						0.68	17.1	326	40
SOOW8-4 IF		4						0.74	18.8	410	35
SOOW8-5 IF		5						0.81	20.7	499	28
SOOW6-2 IF	6	2	184 / 0.0117	0.050	1.27	0.060	1.52	0.72	18.4	353	55
SOOW6-3 IF		3				0.060	1.52	0.77	19.5	450	55
SOOW6-4 IF		4				0.080	2.03	0.89	22.5	607	45
SOOW6-5 IF		5				0.080	2.03	0.97	24.7	736	36
SOOW4-2 IF	4	2	165 / 0.0156	0.050	1.27	0.080	2.03	0.88	22.4	540	70
SOOW4-3 IF		3						0.94	23.8	689	70
SOOW4-4 IF		4						1.03	26.1	876	60
SOOW4-5 IF		5						1.13	28.8	1068	48
SOOW2-2 IF	2	2	262 / 0.0156	0.050	1.27	0.080	2.03	1.01	25.6	755	95
SOOW2-3 IF		3						1.07	27.3	980	95
SOOW2-4 IF		4						1.18	30.0	1251	80
SOOW2-5 IF		5						1.30	33.1	1534	64

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE FLEXTREME (COND) (SIZE) (mm^2) (UL) TYPE SOOW 600V SUNLIGHT & WATER RESISTANT 90C P-7K-254013-MSHA

Control Cable -40˚C + 90˚C UL CSA MSHA
Extra Hard Usage - High Grade Mechanical Service

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

UL 62/CSA-C 22.2 No 49

CONSTRUCTION:

Conductors: Flexible stranded bare copper, ASTM B-174 and UL 62
Insulation: EPR compound, 90˚C class 3, table 8, UL 62
Assembly: Insulated conductors cabled together
Separator: Paper tape or talc for 18-10 AWG
Jacket: Black CPE compound class, 90˚C + class 1.4, table 11, UL 62
Color code: ICEA S-58-679, Method 1, table 1

FEATURES	APPLICATION
- Excellent flexibility, resistance to oil, solvents, ozone, weather, sunlight and water - Flame test meets VW-1, FT2, and MSHA - Temperature range: -40ºC to +90ºC - Suitable for shallow water immersion	- Industrial and processing equipment, cranes and hoists, track systems, tools, construction equipment, motors and associated machinery, garage portable lights, battery charger and equipment exposed to oils, solvents, flame, moisture and other electrical equipment

APPROVALS:

UL: E123366
CSA: 1534535 (LL 103932)
MSHA: P-7K-254013

Part Number	Power Conductor Size	No. of Conductors	Power Conductor Stranding	Nominal Insulation Thickness		Nominal Jacket Thickness		Nominal O.D.		Approx. Weight	Ampacity (1) 30ºC Ambient Temp.
	AWG		No. of Stranding	inches	mm	inches	mm	inches	mm	lbs/1000 ft	A
SOOW18-5	18	5	16 / 30	0.030	0.76	0.080	2.03	0.46	11.7	123	5.6
SOOW18-6		6				0.080	2.03	0.48	12.3	131	5.6
SOOW18-7		7				0.080	2.03	0.48	12.3	134	5.6
SOOW18-8		8				0.080	2.03	0.52	13.1	151	4.9
SOOW18-10		10				0.080	2.03	0.59	15.0	180	4.9
SOOW18-12		12				0.080	2.03	0.61	15.4	202	3.5
SOOW18-14		14				0.095	2.41	0.66	16.9	246	3.5
SOOW18-16		16				0.095	2.41	0.69	17.6	274	3.5
SOOW18-20		20				0.095	2.41	0.76	19.3	333	3.5
SOOW18-24		24				0.095	2.41	0.83	21.2	376	3.2
SOOW18-30		30				0.110	2.79	0.91	23.0	470	3.2
SOOW16-5	16	5	26 / 30	0.030	0.76	0.080	2.03	0.49	12.5	149	8.0
SOOW16-6		6				0.080	2.03	0.53	13.4	165	8.0
SOOW16-7		7				0.080	2.03	0.53	13.4	170	8.0
SOOW16-8		8				0.080	2.03	0.56	14.3	193	7.0
SOOW16-9		9				0.095	2.41	0.68	17.2	238	7.0
SOOW16-10		10				0.095	2.41	0.68	17.2	251	7.0
SOOW16-12		12				0.095	2.41	0.70	17.7	282	5.0
SOOW16-14		14				0.095	2.41	0.73	18.5	316	5.0
SOOW16-16		16				0.095	2.41	0.76	19.4	354	5.0
SOOW16-20		20				0.095	2.41	0.84	21.2	434	5.0
SOOW16-24		24				0.110	2.79	0.95	24.1	520	4.5
SOOW16-30		30				0.110	2.79	1.00	25.4	615	4.5
SOOW16-37		37				0.110	2.79	1.07	27.3	730	4.0
SOOW16-40		40				0.110	3.18	1.18	29.9	843	4.0
SOOW16-52		52				0.125	3.18	1.28	32.4	1016	3.5
SOOW16-60		60				0.125	3.18	1.35	34.2	1154	3.5
SOOW14-5	14	5	41 / 30	0.045	1.14	0.095	2.41	0.64	16.4	251	12.0
SOOW14-6		6				0.095	2.41	0.69	17.6	277	12.0
SOOW14-7		7				0.095	2.41	0.69	17.6	285	12.0
SOOW14-8		8				0.095	2.41	0.74	18.9	324	10.5
SOOW14-10		10				0.095	2.41	0.86	21.9	388	10.5
SOOW14-16		16				0.095	2.41	0.98	24.8	563	7.5
SOOW14-20		20				0.010	2.79	1.11	28.1	730	7.5
SOOW14-24		24				0.010	2.79	1.22	31.1	828	6.8
SOOW14-30		30				0.125	3.18	1.32	33.6	1027	6.8
SOOW14-37		37				0.125	3.18	1.42	36.2	1224	6.0

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE CONTROLFLEX (COND) (SIZE) (mm²) (UL) TYPE SOOW E123366 90C SUN & WATER RES 600V CSA TYPE SOOW 90C LL 103932 FT2 -40C P-7K-254013 MSHA

SPECIAL FACTORY OPTIONS:

Color jacket: Yellow, orange
SOOW/H07: European harmonized dual rating

Control Cable -40˚C + 90˚C UL CSA MSHA
Extra Hard Usage - High Grade Mechanical Service

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

UL 62/CSA-C 22.2 No 49

CONSTRUCTION:

Conductors: Flexible stranded bare copper, ASTM B-174 and UL 62
Insulation: EPR compound, 90˚C + class 3, table 8, UL 62
Assembly: Insulated conductors cabled together
Separator: Paper tape or talc for 18-10 AWG
Jacket: Black CPE compound class, 90˚C + class 1.4, table 11, UL 62 integral fill
Color code: ICEA S-58-679, Method 1, table 1

FEATURES	APPLICATION
- Excellent flexibility, resistance to oil, solvents, ozone, weather, sunlight and water - Flame test meets VW-1, FT2, and MSHA - Temperature range: -40ºC to +90ºC - Suitable for shallow water immersion	- Industrial and processing equipment, cranes and hoists, track systems, tools, construction equipment, motors and associated machinery, garage portable lights, battery charger and equipment exposed to oils, solvents, flame, moisture and other electrical equipment

APPROVALS:

UL: E123366
CSA: 1534535 (LL 103932)
MSHA: P-7K-254013

Part Number	Power Conductor Size	No. of Conductors	Power Conductor Stranding	Nominal Insulation Thickness		Nominal Jacket Thickness		Nominal O.D.		Approx. Weight	Ampacity (1) 30ºC Ambient Temp.
	AWG		No. of Stranding	inches	mm	inches	mm	inches	mm	lbs/1000 ft	A
SOOW12-5	12	5	65 / 30	0.045	1.14	0.095	2.41	0.70	17.8	319	16.0
SOOW12-6		6				0.095	2.41	0.74	18.8	344	16.0
SOOW12-7		7				0.095	2.41	0.74	18.8	358	16.0
SOOW12-8		8				0.095	2.41	0.80	20.2	408	14.0
SOOW12-9		9				0.095	2.41	0.92	23.5	461	14.0
SOOW12-10		10				0.110	2.79	0.95	24.2	519	14.0
SOOW12-12		12				0.110	2.79	0.98	24.9	591	10.0
SOOW12-14		14				0.110	2.79	1.03	26.1	668	10.0
SOOW12-16		16				0.110	2.79	1.08	27.5	755	10.0
SOOW12-20		20				0.125	3.18	1.22	31.0	971	10.0
SOOW12-24		24				0.125	3.18	1.35	34.3	1106	9.0
SOOW12-26		26				0.125	3.18	1.38	35.0	1180	9.0
SOOW12-30		30				0.125	3.18	1.43	36.3	1327	9.0
SOOW12-37		37				0.125	3.18	1.53	39.0	1588	8.0
SOOW12-44		44				0.125	3.18	1.72	43.6	1868	7.0
SOOW12-60		60				0.125	3.18	1.90	48.3	2467	7.0
SOOW10-5	10	5	103 / 30	0.045	1.14	0.095	2.41	0.76	19.3	409	20.0
SOOW10-6		6				0.095	2.41	0.82	20.7	452	20.0
SOOW10-7		7				0.095	2.41	0.82	20.7	474	20.0
SOOW10-8		8				0.095	2.41	0.88	22.3	541	17.5
SOOW10-10		10				0.110	2.79	1.05	26.8	686	17.5
SOOW10-12		12				0.110	2.79	1.09	27.6	788	12.5
SOOW10-16		16				0.125	3.18	1.23	31.2	1053	12.5
SOOW10-20		20				0.125	3.18	1.35	34.4	1304	12.5
SOOW10-26		26				0.125	3.18	1.54	39.0	1598	11.3
SOOW10-30		30				0.125	3.18	1.59	40.4	1803	11.3
SOOW10-40		40				0.141	3.58	1.87	47.4	2464	10.0

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE CONTROLFLEX (COND) (SIZE) (mm^2) (UL) TYPE SOOW E123366 90C SUN & WATER RES 600V CSA TYPE SOOW 90C LL 103932 FT2 -40C P-7K-254013 MSHA

SPECIAL FACTORY OPTIONS:

Color jacket: Yellow, orange
SOOW/H07: European harmonized dual rating

Portable Cord -50˚C + 105˚C UL CSA
Extra Hard Usage - High Grade Mechanical Service

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

UL 62/CSA-C 22.2 No 49

CONSTRUCTION:

Conductors: Stranded annealed bare copper, ASTM B-174 and UL 62
Insulation: EPR 105˚C compound class 19, table 8, UL 62
Assembly: Insulated conductors cabled together
Separator: Paper tape or talc for 18-10 AWG
Jacket: Yellow CPE 105˚C compound class 1.12, table 11, UL 62
Color code: ICEA S-58-679, Method 1, table 1; 3/c - black, white, green; 4/c - black, white, red, green

FEATURES	APPLICATION
- Excellent flexibility in cold temperatures, resistance to oils, acids, chemicals, solvents, ozone, weather and water - Flame test meets VW-1, FT2, MSHA - Temperature range: -50°C to +105° C - For Indoor and outdoor use	- Industrial and processing equipment, cranes and hoists, track systems, tools, construction equipment, motors and associated machinery, garage portable lights, battery charger and equipment exposed to oils, solvents, flame, moisture and other electrical equipment

APPROVALS:

UL: E123366
CSA: 1534535 (LL 103932)

Part Number	Power Conductor Size	No. of Conductors	Power Conductor Stranding	Nominal Insulation Thickness		Nominal Jacket Thickness		Nominal O.D.		Approx. Weight	Ampacity (1) 30ºC Ambient Temp.
	AWG		No. of Stranding	inches	mm	inches	mm	inches	mm	lbs/1000 ft	A
SOOW18-3-YW-105C SOOW18-4-YW-105C	18	3 4	16 / 30	0.030	0.76	0.060	1.52	0.36 0.39	9.1 9.8	74 87	10.0 7.0
SOOW16-3-YW-105C SOOW16-4-YW-105C	16	3 4	26 / 30	0.030	0.76	0.060	1.52	0.39 0.42	10.1 10.5	90 107	13.0 10.0
SOOW14-3-YW-105C SOOW14-4-YW-105C	14	3 4	41 / 30	0.045	1.14	0.080	2.03	0.52 0.57	13.3 14.4	161 192	18.0 15.0
SOOW12-3-YW-105C SOOW12-4-YW-105C	12	3 4	65 / 30	0.045	1.14	0.095	2.41	0.59 0.64	15.2 16.5	217 261	25.0 20.0
SOOW10-3-YW-105C SOOW10-4-YW-105C	10	3 4	103 / 30	0.045	1.14	0.095	2.41	0.65 0.70	16.5 17.8	281 336	30.0 25.0

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE SUPER FLEXTREME (COND) (SIZE) (mm^2) (UL) TYPE SOOW E123366 105C SUN & WATER RES 600V CSA SOOW 105C LL 103932 FT2 -50C

H07RN-F 750V SOOW / 600V

FLEXTREME

Portable Cord -40˚C + 90˚C UL CSA MSHA <HAR>
Extra Hard Usage - High Grade Mechanical Service

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS
UL 62/HD 22.154

CONSTRUCTION:
Conductors: Stranded bare copper with ASTM B 174 and UL 62; IEC 60228
Insulation: EPR 90˚C compound class 3, table 8, HD 22.154 and UL 62
Assembly: Insulated conductors are assembled round
Separator: Paper tape or talc for 18-10 AWG
Jacket: Black CPE 90˚C compound class 1.4, table 11, HD 22.154, UL 62, integral fill jacket
Color code: HD 308, DIN VDE 0293-308; 3/c: green/yellow, blue, brown; 4/c: green/yellow, brown, black, grey; 5/c: green/yellow, blue, brown, black, grey

FEATURES	APPLICATION
- Sunlight, water, solvents, ozone, weather and oil resistance - Temperature range: -40°C to +90°C - Flame test VW-1 FT2 and MSHA - Suitable for shallow water immersion	- Industrial and processing equipment, cranes and hoists, track systems, tools, construction equipment, motors and associated machinery, garage portable lights, battery charger and equipment exposed to oils, solvents, flame, moisture and other electrical equipment.

APPROVALS:
UL: E123366
CSA: 1534535 (LL 103932)
MSHA: P-7K-254013
BBJ: <HAR>

Part Number	Conductor Size	No. of Conductors	Power Conductor Stranding	Nominal Insulation Thickness		Nominal Jacket Thickness		Nominal O.D.		Approx. Weight	Ampacity (1) 30ºC Ambient Temp.
	AWG		No. of Stranding	inches	mm	inches	mm	inches	mm	lbs/1000 ft	A
SOOW/H07RN-F18-3 SOOW/H07RN-F18-4	18	3/C 4/C	30 / 0.197	0.032 / 0.030	0.81 / 0.76	0.063 / 0.060 0.085 / 0.080	1.60 / 1.52 2.16 / 2.03	0.400 0.476	10.2 12.1	84 96	7.0 5.6
SOOW/H07RN-F16-3 SOOW/H07RN-F16-4	16	3/C 4/C	30 / 0.248	0.032 / 0.030	0.81 / 0.76	0.070 / 0.067 0.085 / 0.080	1.78 / 1.70 2.16 / 2.03	0.449 0.516	11.4 13.1	99 125	10.0 8.0
SOOW/H07RN-F14-3 SOOW/H07RN-F14-4	14	3/C 4/C	47 / 0.248	0.047 / 0.045	1.19 / 1.14	0.085 / 0.080	2.16 / 2.03 2.54 / 2.41	0.594 0.671	15.1 17.0	183 216	15.0 12.0
SOOW/H07RN-F12-3 SOOW/H07RN-F12-4	12	3/C 4/C	51 / 0.297	0.047 / 0.045	1.19 / 1.14	0.100 / 0.095	2.54 / 2.41	0.681 0.736	17.3 18.7	249 300	20.0 16.0
SOOW/H07RN-F10-3 SOOW/H07RN-F10-4	10	3/C 4/C	77 / 0.297	0.047 / 0.045	1.19 / 1.14	0.100 / 0.095	2.54 / 2.41	0.724 0.791	18.4 20.1	304 366	25.0 20.0
SOOW/H07RN-F8-3 SOOW/H07RN-F8-4	8	3/C 4/C	74 / 0.397	0.062 / 0.060	1.57 / 1.52	0.125 / 0.120	3.43 / 3.30 3.56 / 3.43	0.902 0.984	22.9 25.0	537 651	40.0 35.0

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:
TF CABLE FLEXTREME (COND) (SIZE) (mm^2) (UL) SOOW E123366 90C SUN & WATER RES 600V CSA SOOW 90C LL 103932 FT2 -40C P-7K-254013 MSHA <HAR> H07RN-F ROHS

Remote & Drill Cord Cable -40˚C + 90˚C MSHA Mining Grade

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

ICEA S-75-381/NEMA WC58, ICEA S-95-658/NEMA WC 70, ASTM B-3/B174

CONSTRUCTION:

Conductors: Stranded bare copper in accordance with ASTM B-3/B-174
Separator: Paper or polyester tape
Insulation: EPR 90ºC thermoset compound, ICEA S-95-658
Assembly: Insulated conductors cabled together with rubber fillers as needed.
Jacket: Black heavy duty double layer reinforced Neoprene® ICEA S-75-381 table 3-3, 3-22 sec 3.21
Color Code: ICEA S-58-679, method 1 table 1; black, white, red, green, orange

FEATURES	APPLICATION
- Sunlight, water, solvents, ozone, weather and oil resistance - Heavy duty abrasion - Tear and crush resistance - Flame test: MSHA - Temperature range: -40°C to +90°C	- Heavy duty applications and long service life in wet or dry locations in underground mines

APPROVALS:

MSHA: 07-KA050015-MSHA

Part Number	Power Conductor Size	No. of Conductors	Power Conductor Stranding	Nominal Insulation Thickness		Nominal Jacket Thickness		Nominal O.D.		Approx. Weight	Ampacity (1) 40ºC Ambient Temp.
	AWG		No. and Diameter of Stranding	inches	mm	inches	mm	inches	mm	lbs./1000 ft.	A
DC10-5	10	5	104 / 0.01	0.045	1.14	0.155	3.94	0.91	23.1	545	20.0

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE FLEXTREME (SIZE) REMOTE CONTROL & DRILL CORD 600V 07-KA050015-MSHA

RHH / RHW-2 / USE-2 600V

Portable Power Cable 90˚C UL Industrial Grade

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

ICEA S-95-658/NEMA WC 70, UL 44, UL 854, ASTM B 8, ASTM B 33

CONSTRUCTION:

Conductor: Flexible strand tin copper Class B, ASTM B-8, ASTM B-33
Separator: Tape separator between the conductor and insulation
Insulation: Ethylene-propylene rubber (EPR)
Jacket: Black heavy duty, CSPE thermoset (Hypalon) compound, UL 44, UL 854, ICEA S-95-658

FEATURES	APPLICATION
- UL listed RHH/RHW-2/USE-2 - Rated 90ºC dry and wet - Ozone, sunlight, oil, grease, weather, water, chemical and abrasion resistant - VW-1, SUN RES, FOR CT USE for black jacket sizes 1/0 AWG and larger	- Designed for uses requiring a flexible heavy duty power cable - For portable and or fixed installations - Leads for motors, generators, batteries, jumper cables

APPROVALS:

UL: E232192 - EPR / Hypalon RHW-2 90˚C wet or dry, Sunlight resistant VW-1 for CT use 1/0 & larger

Part Number	Power Conductor Size	Power Conductor Stranding	Conductor Diameter	Nominal Insulation Thickness	Cable Diameter						Approx. Weight	Ampacity(1) 40ºC Ambient Temp.
					Minimum		Approx.		Maximum			
	AWG or MCM	No. and Dia. of Stranding	inches	inches	inches	mm	inches	mm	inches	mm	lbs/ 1000 ft	A
USE2-14	14 AWG	7x0.615	0.072	0.030	0.161	4.10	0.165	4.20	0.177	4.50	24	25
USE2-12	12 AWG	7x0.775	0.091	0.030	0.185	4.70	0.189	4.80	0.205	5.20	34	32
USE2-10	10 AWG	7x0.980	0.116	0.030	0.205	5.20	0.213	5.40	0.228	5.80	49	47
USE2-8	8 AWG	7x1.230	0.146	0.045	0.268	6.80	0.276	7.00	0.299	7.60	79	83
USE2-6	6 AWG	7x1.550	0.183	0.045	0.335	8.50	0.346	8.80	0.374	9.50	124	109
USE2-4	4 AWG	7x1.960	0.231	0.045	0.382	9.70	0.394	10.0	0.425	10.80	179	145
USE2-2	2 AWG	7x2.470	0.292	0.045	0.441	11.20	0.453	11.50	0.488	12.40	260	192
USE2-1/0	1/0 AWG	19x1.890	0.373	0.055	0.559	14.20	0.575	14.60	0.622	15.80	420	258
USE2-2/0	2/0 AWG	19x2.130	0.419	0.055	0.602	15.30	0.619	15.73	0.669	17.00	513	298
USE2-4/0	4/0 AWG	19x2.680	0.528	0.055	0.717	18.20	0.736	18.70	0.795	20.20	774	400
USE2-250	250 MCM	37x2.090	0.575	0.065	0.827	21.00	0.850	21.60	0.917	23.30	956	445
USE2-350	350 MCM	37x2.470	0.681	0.065	0.929	23.60	0.957	24.30	1.031	26.20	1290	552
USE2-500	500 MCM	37x2.950	0.813	0.065	1.055	26.80	1.088	27.64	1.177	29.90	1798	695
USE2-750	750 MCM	61x2.817	0.980	0.080	1.264	32.10	1.303	33.10	1.406	35.70	2686	898
USE2-1000	1000 MCM	61x3.250	1.152	0.080	1.413	35.90	1.457	37.0	1.575	40.00	3463	1076
USE2-8WHT	8 AWG	7x1.230	0.146		0.268	6.80	0.276	7.00	0.299	7.60	79	83
USE2-8GRN	8 AWG	7x1.230	0.146	0.045	0.268	6.80	0.276	7.00	0.299	7.60	79	83
USE2-6GRN	6 AWG	7x1.550	0.183		0.335	8.50	0.346	8.80	0.374	9.50	124	109

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

1 AWG AND SMALLER:
TF CABLE E232192 (UL) TYPE USE-2 E193954 RHH / RHW-2 (SIZE) EP/HYP 600V VW-1 SUN RES
1/0 AWG AND LARGER:
TF CABLE E232192 (UL) TYPE USE-2 E193954 RHH / RHW-2 (SIZE) EP/HYP 600V VW-1 SUN RES FOR CT USE

Zero Halogen EP Welding Cable 105ºC Industrial Grade

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

UL 1581

CONSTRUCTION:

Conductors: Flexible stranded bare copper per ASTM B-172 Class K
Separator: Tape separator between the conductor and insulation
Jacket: Ethylene Propylene Rubber (EPR) Class 45, 105˚C Table 50.55 of UL 1581
Color of jacket: Black 6AWG - 500MCM;
Red 6AWG–4/0

FEATURES	APPLICATION
- Excellent flexibility - Ozone, sun, weather resistant - Rated and flexible at –40ºC - Oil resistant - Heat resistant at 105ºC	- Secondary voltage resistance welding leads - Leads for motors, generators, batteries

Part Number	Power Conductor Size	Power Conductor Stranding	Nominal Insulation Thickness	Nominal O.D.		Approx. Weight		Maximum Direct Current Resistance 20C Ω/km	Ampacity 40ºC Ambient Temp.
	AWG or MCM	No. of Stranding	inches	inches	mm	lbs/1000 ft	kgs/km	Ω/km	A
WC6	6 AWG	253/30	0.060	0.319	8.1	115	171	1.38	133
WC4	4 AWG	403/30	0.060	0.366	9.3	169	252	0.865	179
WC2	2 AWG	636/30	0.060	0.429	10.9	255	379	0.549	237
WC1	1 AWG	798/30	0.080	0.508	12.9	303	451	0.436	284
WC1/0	1/0 AWG	1016/30	0.080	0.555	14.1	396	589	0.345	327
WC2/0	2/0 AWG	1261/30	0.080	0.598	15.2	482	719	0.276	377
WC3/0	3/0 AWG	1590/30	0.080	0.673	17.1	595	887	0.219	449
WC4/0	4/0 AWG	2007/30	0.080	0.716	18.2	734	1092	0.173	514
WC250	250 MCM	2399/30	0.095	0.866	22.0	907	1349	0.147	577
WC350	350 MCM	3327/30	0.095	0.953	24.2	1203	1790	0.106	719
WC500	500 MCM	4746/30	0.095	1.130	28.7	1734	2580	0.0743	908
WC6 RED	6 AWG	253/30	0.060	0.319	8.1	115	171	1.38	133
WC4 RED	4 AWG	403/30	0.060	0.366	9.3	169	252	0.865	179
WC2 RED	2 AWG	636/30	0.060	0.429	10.9	255	379	0.549	237
WC1 RED	1 AWG	798/30	0.080	0.508	12.9	303	451	0.436	284
WC1/0 RED	1/0 AWG	1016/30	0.080	0.555	14.1	396	589	0.345	327
WC2/0 RED	2/0 AWG	1261/30	0.080	0.598	15.2	482	719	0.276	377
WC3/0 RED	3/0 AWG	1590/30	0.080	0.673	17.1	595	887	0.219	449
WC4/0 RED	4/0 AWG	2007/30	0.080	0.716	18.2	734	1092	0.173	514

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE (SIZE) ARC WELDING CABLE 600V OIL RESISTANT -40˚C +105˚C

SPECIAL FACTORY OPTIONS:

Conductor: Class M (AWG 34) stranding
Jacket: Neoprene®
CSA: **1101275** -FT2; Oil Resistant (Optional)

Neoprene is a registered trademark of DuPont

SC-STAGE LIGHTING CABLE 600V

Portable Power Cable 105˚C UL C(UL) Industrial Grade

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

UL 62 / UL1581, CSA-C 22.2 No 96

CONSTRUCTION:

Conductors: Flexible strand bare copper, ASTM 172 class K
Separator: Polyester tape over conductor
Jacket: Black heavy duty EPR / CPE two layers bonded thermoset jacket, oil resistant and flame retardant

FEATURES	APPLICATION
- For use in accordance with NEC Articles 520, 525 and 530, indoor and outdoor locations - Flame test: meets VW-1, MSHA - Excellent flexibility, resistance to oil, solvents, ozone, aging and abrasion - Suitable for continuous submersion in water - Temperature range: -35°C to +105°C	- Portable power and lighting applications in the entertainment industry including motion picture, television, theatres, stages and similar locations

APPROVALS:

UL: E228208 (UL); -35°C; Oil resistant 60°C; Water Resistant
C(UL): E194127 FT5; 105°C; 600V; Oil Resistant

Part Number	Power Conductor Size	Power Conductor Stranding	Nominal Jacket Thickness		Nominal O.D.		Approx. Weight		Ampacity(1)
	AWG	No. of Stranding	inches	mm	inches	mm	lbs/1000 ft	kgs/km	A
Stage 8	8 AWG	163 / 30	0.095	2.41	0.360	9.1	100	148	80
Stage 6	6 AWG	258 / 30	0.095	2.41	0.371	9.4	131	195	105
Stage 4	4 AWG	410 / 30	0.095	2.41	0.430	10.9	189	282	140
Stage 2	2 AWG	649 / 30	0.106	2.69	0.509	12.9	285	424	190
Stage 1	1 AWG	815 / 30	0.136	3.45	0.611	15.5	379	564	220
Stage 1/0	1/0 AWG	1032 / 30	0.136	3.45	0.672	17.1	463	689	260
Stage 2/0	2/0 AWG	1287 / 30	0.136	3.45	0.697	17.7	549	816	300
Stage 3/0	3/0 AWG	1622 / 30	0.136	3.45	0.777	19.7	674	1003	350
Stage 4/0	4/0 AWG	2052 / 30	0.136	3.45	0.803	20.4	814	1212	405

(1) Ampacities are based on single conductor in free air, 30°C ambient air temperature 90°C conductor operating temperature per Table 400-5 (B) of the 1999 NEC

STANDARD PRINT LEGEND:

TF CABLE E228208 (SIZE) TYPE SC 105C -35C MAX AMPS NEC TABLE 400-5B
FOR 90C 600V (UL) WATER RES. OIL RES. 60C E194127 C(UL) TYPE PPC 105C FT5

600V Grounding Cable

Single Flexible Copper Conductor Special Transparent Jacket Utility Grade

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

IEC 31138

CONSTRUCTION:

Conductors: Flexible stranded bare coopper ASTM B-172 class K

Jacket: Special transparent PVC compound type ST11 according to IEC 61138 table 7

FEATURES	APPLICATION
- Transparent jacket provides easy confirmation of continuity and ease of trouble shooting. Extremely flexible stranding for ease of bending and installation	- A transparent PVC jacketed flexible cable used for grounding jumpers installed temporarily for protective grounding of de-energized circuits

Part Number	Power Conductor Size	Power Conductor Stranding	Nominal Insulation Thickness		Nominal O.D.		Approx. Weight	
	AWG	No. and Diameter of Stranding	inches	mm	inches	mm	lbs/1000 ft	kgs/km
GRD-CLR2/0	2/0 AWG	1323 / 0.010	0.110	2.79	0.710	18.03	530	790
GRD-CLR4/0	4/0 AWG	2107 / 0.010	0.110	2.79	0.850	21.59	799	1190

5kV / 15kV JUMPER CABLE

JC 5kV / 15kV Single Conductor Portable Power Cable Utility Grade

RoHS COMPLIANT

SPECIFICATIONS & STANDARDS

ICEA S-97-682, ICEA S-75-381/NEMA WC-58, ASTM B172, ASTM B 33, UL 1072

CONSTRUCTION:

Conductors: Flexible strand tin coated copper, ASTM B-172 and ICEA S-75-381

Separator: Synthetic semi-conducting tape separator between the conductor and insulation

Insulation: Ethylene-propylene rubber (EPR), UL 1072

Jacket: Red heavy duty CPE thermoset compound, ICEA S-75-381 sec 3.22

FEATURES	APPLICATION
- Excellent flexibility - Water resistant - Rated and flexible at –40°C to +90°C - Ozone sunlight oil, grease, weather, chemical resistant	- Suitable as a flexible power lead for temporary connections - Other industrial applications

Part Number	Power Conductor Size	Conductor Stranding	Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal O.D.		Approx. Weight		Ampacity (1) 40°C Ambient Temp.	Impedance (1)
	AWG / MCM		inches	inches	inches	mm	lbs/1000 ft	kgs/km	A	Ohm/1000 ft
JC2	2	259x0.0159	0.080	0.080	0.820	20.8	480	714	195	0.2122 + j0.025
JC1/0	1/0	414x0.0159	0.175	0.080	0.905	23.0	639	951	255	0.1332 + j0.022
JC2/0	2/0	522x0.0159	0.175	0.080	0.997	25.3	747	1112	293	0.1059 + j0.022
JC4/0	4/0	829x0.0159	0.175	0.080	1.140	29.0	1051	1564	389	0.0662 + j0.019
JC350	350	1361x0.0159	0.175	0.080	1.305	33.1	1584	2357	543	0.0405 + j0.016
JC500	500	1921x0.0159	0.175	0.080	1.410	35.8	2082	3099	678	0.0284 + j0.014

(1) Ampacity and Impedance – Free air measured; Based on continuous duty at 90°C conductor temperature

STANDARD PRINT LEGEND:

TF CABLE (SIZE) 5/15kV JUMPER CABLE

Terms & Conditions

1. **Quotations**
   a) Quotations for manufactured products are valid for 30 days.
   b) Quotations for products from inventory are for immediate acceptance.

2. **Lead Times**
   a) Manufacturing lead times are stated at time of quotation and are a best estimate based on current conditions. Lead times may change due to factory capacity at time of order placement.
   b) All stock items are for immediate availability and products are subject to prior sale.

3. **Order Acceptance**
   a) No Purchase Order shall be binding unless and until officially accepted in writing by TF Cable. Any terms and conditions of the Purchase Order which are in addition to or inconsistent with TF Cable terms and conditions shall not be binding and shall not apply to the transaction, unless specifically agreed to in writing by TF Cable.
   b) Large orders that meet minimum contract guidelines have the option to firm the value of metal content to the LME next business day price.

4. **Metal Adjustment At Time Of Shipment**
   a) Manufactured orders shipping from TF Kable are subject to metal escalation or de-escalation at time of shipment. Adjusted metals are based on the published London Metal Exchange (LME) previous month's average from date of shipment.
   b) Warehouse orders shipping from TF Cable are adjusted to the current copper market price level at time of order.

5. **Other Raw Materials**
   Prices quoted by TF Cable are subject to other raw material increases and pricing may be revised after expiration of the 30 day quote acceptance period.

6. **Shipping and Delivery Schedule**
   The projected shipping and delivery schedule is TF Cable's best estimate of the time material will be shipped from TF Cable's factory. TF Cable assumes no liability for loss, damage or consequential damages due to delays.

7. **Reel Length Policy and Specially Requested Cut Lengths From Inventory**
   a) No order will be accepted that requires a master length of cable to be cut resulting in a remaining unsellable short length.
   b) Orders requesting specific cut lengths will be subject to cutting charges.

8. **Quantity Variations**
   a) Actual shipped quantities or individual lengths on reels on manufactured items may vary from original ordered amount. Variations are intended to be reasonable and tolerances on product types are stated on the quotations and orders.
   b) Shipments from TF Kable are set at a quantity tolerance of +/- 10%
   c) Shipments from TF Cable warehouse are set at a quantity tolerance of -0% to +5%.

9. **Freight Policy and Shipments**
   a) Container shipments from TF Kable are quoted CIF customer warehouse.
   b) Shipments from TF Cable Americas warehouse are F.O.B. TF Cable's warehouse. Freight will be prepaid and allowed on individual shipments
      • 7,500 Pound Shipment
        - Industrial Power and Control Cables 600V, 2KV and Above
        - W, G, GGC, SHDGC, MPGC, Welding, USE, Stage Lighting
        - #8 AWG and above
      • 2,000 Pound Shipment
        - Flexible Cordage 300V and 600V
        - SJOOW SOOW
        - #18 AWG through #10 AWG
   c) TF Cable will use the best, least expensive surface transportation. Reasonable care is exercised in packing products for shipment, and TF Cable assumes no responsibility for delay, breakage or damage after having made delivery in good order to the carrier. All claims for breakage and damage should be made to the carrier.
   d) Mixed product orders will be assessed at 7500 lbs allowance
   e) Back orders on shipments not meeting the freight allowed policy will be consolidated with customer orders that meet prepaid shipping weight

10. **Terms of Payment**
    a) Shipments from TF Kable – 75 days from date of shipment
    b) Shipments from TF Cable Americas – 30 days from date of shipment

11. **Cancellation**
    a) Orders are considered non-cancelable.
    b) Exceptions are at the discretion of TF Cable. Manufactured orders will be subject to cancellation charges and commiserate to the resources committed for order fulfillment. Any order, once accepted by TF Cable shall not be subject to cancellation except on terms that protect TF Cable against loss. If the order is cancelled for any reason, TF Cable Americas shall not be liable for incidental or consequential damages.

12. **Returns**
    a) Applications for returning material are to me made within 30 days of receipt
    b) No returns will be accepted without a return authorization
    c) Credit will be provided only after receipt and verification that the product is still in the original packaging received in a non-damaged saleable condition.
    d) Restocking charges will apply and will be set at the time of RMA request.

13. **Deductions for Damage and Shortages**
    a) Applications for invoice adjustment due to damage or shortages are required to be submitted 30 days from receipt.
    b) Damage or shortage claims must be accompanied by the driver's copy of the delivery receipt noting the specific items claimed.
    c) Unless specifically authorized otherwise, claims are not to be deducted from the original invoice but will be processed on a separate credit memo.

14. **Confidentiality of Technical Data and Content of Catalog Sheets**
    a) If any written technical information, detailed specifications, drawings or other technical data are submitted to the customer in connection with a quotation or order, other than published data, such data will be furnished in confidence to permit the evaluation of TF Cable Americas conformance with the order requirements.
    b) Catalog sheets are considered accurate but may have typographical errors or inadvertent omissions of information. TFCA is not responsible for errors of this nature.
    c) Information contained in catalog sheets is subject to change without notice.

Product Warranty

Tele-Fonika Cable Americas, a wholly owned subsidiary of Tele-Fonika Kable, warrants that the cable will:

- **Be free from defects in material and workmanship**
- **Conform fully to published Tele-Fonika specifications, or to the specifications as otherwise agreed and confirmed by Tele-Fonika in writing**
- **Meet all applicable independent governing standards required for the listing and for the intended application**

Warranty Duration

Warranty period is 12 months from date of installation not to exceed 18 months from date of Tele-Fonika invoice.

Warranty Conditions

- Liability covers only defects inherent in the product.
- Product installation and claim must have been completed prior to the expiration of the warranty period.
- User must resolve all non-related causes prior to claim.
- User must provide verification that products received proper transporting, storing, placing and installation in accordance with generally accepted methods provided for in standards, electrical codes and trade procedures, with respect to the purpose of the product specified by the manufacturer.
- Cable repair or replacement will be performed only after TF Cable has reviewed and verified the claim prior to removal, replacement or repair of defective product.
- In instances of a groundless warranty claim, customer shall be obliged to pay the costs incurred by TF Cable. A groundless warranty is defined as a situation where the defect does not exist or the defect has been created by conditions not related to the product.

Claim Procedure

- Claim must have accompanying documentation proving product purchase related to the warranty including quantity, packing slip, place and date of purchase.
- Warranty claim must be conveyed to the immediate supplier of the product or to TF Cable if supplied directly.
- Warranty claim must contain a description of the revealed defect.
- If claim is prior to installation, the user must provide a sample of the defective product to TF Cable.
- If claim is after installation user shall provide TF Cable free and easy access to the product.
- User must properly secure the product or place of installation where the defects are revealed and let TF Cable inspect the product and all receiving and installation documents.
- The warranty notice shall be directed at the following address:

TELE-FONIKA CABLE AMERICAS
1160 Pierson Drive
Batavia, IL 60510
USA

Warranty Remedy

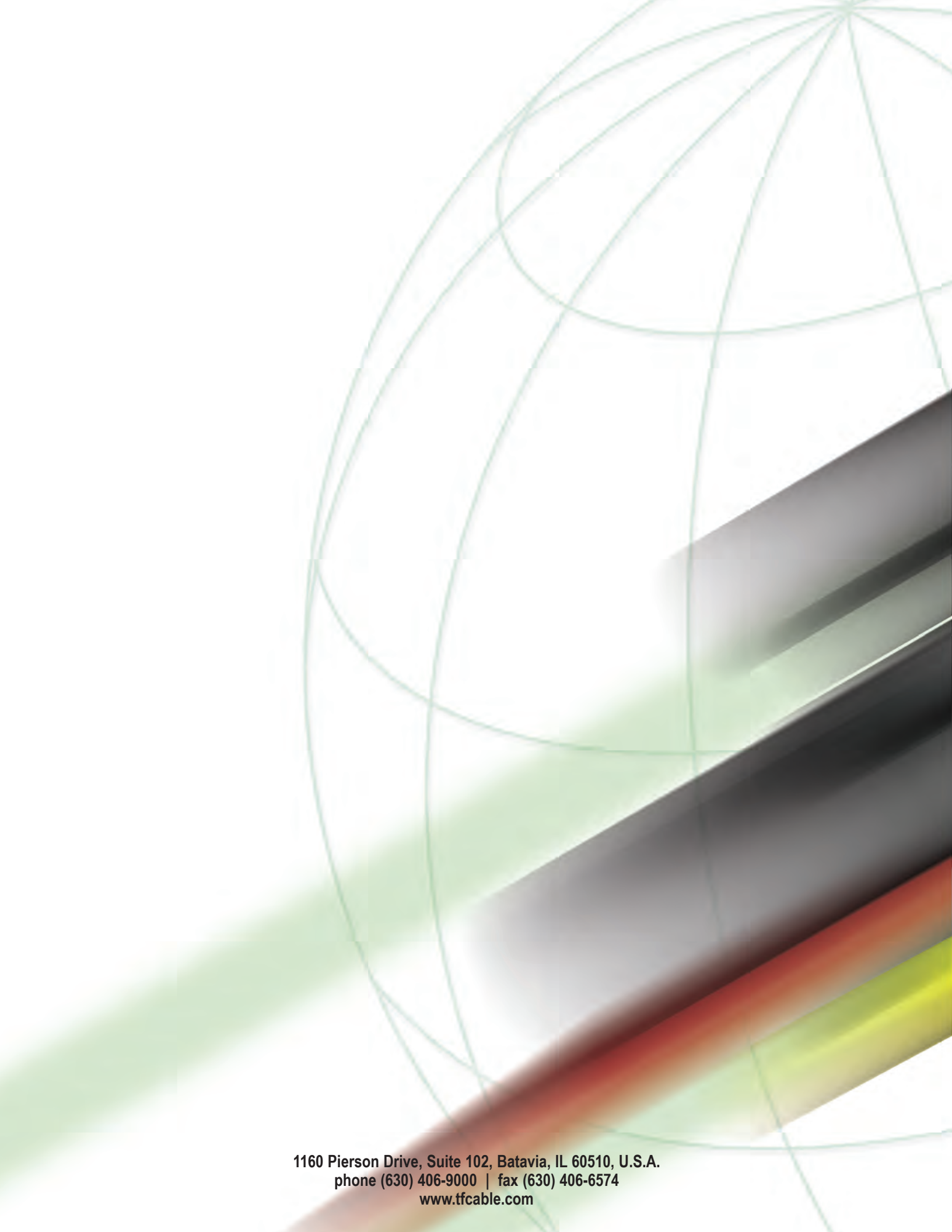
- Upon an accepted warranty claim the company will repair or replace the defective product at its discretion.
- Upon an accepted warranty claim the defective product shall be the property of the Warrantor and returned.

Warranty Exclusions

- Warranty does not cover non-related products or causes.
- Warranty does not cover using a product not in accordance to its designed purpose, features or rules of use.
- Warranty does not cover any repairs, adaptation or changes in construction performed by persons other than Warrantor.

Warranty limitations

This warranty is exclusive and in lieu of all other warranties, whether express or implied, or statutory, including, but not by way of limitation, any warranty of merchantability or fitness for any particular purpose, non-infringement or any other matter. The remedies provided for in the preceding paragraphs shall constitute the sole recourse of end-user against Tele-Fonika Cable for breach of any obligations to end-user, whether the claim is made in tort or in contract, including claims based on breach of warranty, negligence, strict liability, fraud, misrepresentation, or otherwise. In no event shall Tele-Fonika Cable be liable for special, indirect, incidental or consequential damages (regardless of the form of action, whether in contract or in tort, including negligence), including, without limitation, lost profits or economic damage arising out of the failure. Nor shall the liability of Tele-Fonika Cable for any claims or damage arising out of or connected with this warranty or the manufacture, sale, delivery, installation or use of the products exceed the purchase price of the products and the installation.



1160 Pierson Drive, Suite 102, Batavia, IL 60510, U.S.A.
phone (630) 406-9000 | fax (630) 406-6574
www.tfcable.com