TF Kable

Connecting globally

Industrial and Mining Grade Cables

North America Factory Inventory

TELE-FONIKA Kable

TELE-FONIKA KABLE SA, a privately held wire and cable manufacturer headquartered in Myślenice, Poland, is one of the largest wire and cable companies in the world. TFKable operates 8 plants in Central and Eastern Europe with a distribution network stretching 80 countries. Formed through a series of acquisitions and mergers, TFKable has developed world-class technology centers of excellence with state of the art manufacturing operations. Founded in 1992, TFKable grew rapidly and the operations today are a result of internal development projects supported by strategic investments.

TFKable 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 and ISO 14001 certified. All products are manufactured to public, utility and industrial standards including ICEA, IEEE, and ASTM. TELE-FONIKA has over 380 individual certificates issued by more than 30 certification bodies which include UL, CSA, MSHA, SABS, VDE, etc.

JDR Cable Systems Ltd. (Sales Representative) United States, UK

TELE-FONIKA Cable Americas

TELE-FONIKA CABLE AMERICAS (TFCA) is a U.S. corporation with offices and main warehouse located in Bolingbrook, Illinois. TFCA is a wholly owned subsidiary of TELE-FONIKA Kable (TFKable) with responsibility for North and South American markets. TFKable, 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. TFKable has been active in the Americas since 1987, providing products through a network of authorized distributors, international agents, and domestic sales representatives. TFKable 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 TFKable`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. TFKable 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 Kable is today's premier cable provider

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Type W RHH/RHW-2

2000 V

ASTM B-3, UL 44, UL 1650, CSA C22.2 No.96-17

Portable Power Cables 90°C UL C(UL) MSHA
Industrial Grade –Extra Flexible

APPLICATIONS

Portable power systems. Other industrial applications

CONSTRUCTION

Conductors	Extra flexible stranded bare copper
Separator	Tape separator between conductor and insulation
Insulation	Ethylene-propylene rubber (EPR)
Reinforcement	Single faced rubber filled binder tape over insulation
Jacket	Black heavy duty CPE thermosetting compound
Bending radius	Minimum 6 x outer diameter

Features

Super -Excellent flexibility. Water resistant and flame retardant. Rated and flexible at –40°C to +90°C. Excellent impact and abrasion resistant. Ozone, sunlight, oil, grease, weather, chemical and heat resistant.

Approvals

UL: E207132 - Oil Resistant Oil Resistant Inners, Sunlight resistant 90°C Wet or Dry
C(UL): E207132, FT1, FT5 -40°C to +90°C, **MSHA:** P-7K-268101

Technical and Electrical Characteristic

Part Number	Size	Conductor Strand	Nominal Insulation Thickness		Outside Diameter		Approx. weight		Ampacity(1)
	AWG or MCM	**No. of wires**	**Inches**	**mm**	**Inches**	**mm**	**Lbs. per 1000ft.**	**kg/km**	**A**
W8-1XT	8	162	0.06	1.52	0.46	11.6	138	205	80
W6-1XT	6	264	0.06	1.52	0.54	13.6	200	298	105
W4-1XT	4	418	0.06	1.52	0.58	14.7	261	388	140
W2-1XT	2	660	0.06	1.52	0.65	16.5	362	538	190
W1-1XT	1	836	0.08	2.03	0.73	18.5	452	673	220
W1/0-1XT	1/0	1056	0.08	2.03	0.77	19.5	536	797	260
W2/0-1XT	2/0	1320	0.08	2.03	0.81	20.7	634	943	300
W3/0-1XT	3/0	1672	0.08	2.03	0.88	22.4	767	1141	350
W4/0-1XT	4/0	2090	0.08	2.03	0.98	24.9	966	1438	405
W250-1XT	250	2496	0.095	2.41	1.00	25.5	1077	1603	455
W350-1XT	350	3416	0.095	2.41	1.11	28.3	1405	2091	570
W500-1XT	500	4880	0.095	2.41	1.30	33.0	1930	2872	700

(1) Ampacities based on 90°C Conductor and 30°C Ambient temperature per table 400.5(A)(2) of the National Electrical Code®

Standard print legend:

For size up to 1AWG	**For size 1/0AWG and larger**
TF CABLE (SIZE) TYPE W 2000V PORTABLE POWER CABLE RHH/RHW-2 90C SUN RES OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT1 FT5 (-40°C) P-7K-268101-MSHA	TF CABLE (SIZE) TYPE W 2000V PORTABLE POWER CABLE 90C E207132 (UL) SUN RES OIL RES 90C WET OR DRY C(UL) FT1 FT5 (-40°C) E193954 RHH/RHW-2 600V FOR CT USE P-7K-268101-MSHA

Special factory option

Jacket:	Other colors available
MSHA:	P-7K-268077 (Neoprene) (For sizes 6AWG-500MCM 1,2,3 conductor version) (For sizes 6AWG-350MCM 4 conductor version) (For sizes 6AWG-4/0AWG 5 conductor version) (For sizes 6AWG-1AWG 6 conductor version)
CSA:	1523058 (LR 103932)- FT1, FT5, +90°C (-40°C) (Neoprene)

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Type W RHH/RHW-2

2000 V

ASTM B-3, UL 44, UL 1650, CSA C22.2 No.96-17

Portable Power Cables 90°C UL C(UL) MSHA
Industrial Grade – Extra Flexible

APPLICATIONS

Portable power systems. Other industrial applications

CONSTRUCTION

Conductors	Extra flexible stranded bare copper
Separator	Tape separator between conductor and insulation
Insulation	Ethylene-propylene rubber (EPR)
Reinforcement	An open reinforcing braid over insulation
Jacket	Black heavy duty CPE thermosetting compound
Bending radius	Minimum 6 x outer diameter

Features

Super -Excellent flexibility. Water resistant and flame retardant. Rated and flexible at -40°C to +90°C. Excellent impact and abrasion resistant. Ozone, sunlight, oil, grease, weather, chemical and heat resistant

Approvals

UL: E207132 - Oil Resistant Oil Resistant Inners, Sunlight resistant 90°C Wet or Dry
C(UL): E207132, FT1, FT5 -40°C to +90°C, **MSHA:** P-7K-268101

Technical and Electrical Characteristic

Part Number	Size	Conductor Strand	Nominal Insulation Thickness		Outside Diameter		Approx. weight		Ampacity(1)
	AWG or MCM	**No. of wires**	**Inches**	**mm**	**Inches**	**mm**	**Lbs. per 1000ft.**	**kg/km**	**A**
W8-1X	8	162	0.06	1.52	0.44	11.1	131	195	80
W6-1X	6	264	0.06	1.52	0.52	13.1	193	287	105
W4-1X	4	418	0.06	1.52	0.56	14.3	255	379	140
W2-1X	2	660	0.06	1.52	0.65	16.5	365	543	190
W1-1X	1	836	0.08	2.03	0.72	18.4	454	675	220
W1/0-1X	1/0	1056	0.08	2.03	0.75	19.1	529	787	260
W2/0-1X	2/0	1320	0.08	2.03	0.80	20.3	626	931	300
W3/0-1X	3/0	1672	0.08	2.03	0.86	21.9	755	1123	350
W4/0-1X	4/0	2090	0.08	2.03	0.91	23.1	965	1436	405
W250-1X	250	2496	0.095	2.41	0.98	25.0	1064	1584	455
W350-1X	350	3416	0.095	2.41	1.11	28.2	1409	2096	570
W500-1X	500	4880	0.095	2.41	1.28	32.5	1913	2847	700
W750-1X	750	7252	0.110	2.79	1.54	39.1	2810	4181	855
W800-1X	800	7770	0.110	2.79	1.56	39.5	3021	4496	885

(1) Ampacities based on 90°C Conductor and 30°C Ambient temperature per table 400.5(A)(2) of the National Electrical Code®

Standard print legend:

For size up to 1AWG	**For size 1/0AWG and larger**
TF CABLE (SIZE) TYPE W 2000V PORTABLE POWER CABLE RHH/RHW-2 90C SUN RES OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT1 FT5 (-40°C) P-7K-268101-MSHA	TF CABLE (SIZE) TYPE W 2000V PORTABLE POWER CABLE 90C E207132 (UL) SUN RES OIL RES 90C WET OR DRY C(UL) FT1 FT5 (-40°C) E193954 RHH/RHW-2 600V FOR CT USE P-7K-268101-MSHA

Special factory option

Jacket:	Other colors available
MSHA:	P-7K-268077 (Neoprene) (For sizes 6AWG-500MCM 1,2,3 conductor version) (For sizes 6AWG-350MCM 4 conductor version) (For sizes 6AWG-4/0AWG 5 conductor version) (For sizes 6AWG-1AWG 6 conductor version)
CSA:	1523058 (LR 103932)- FT1, FT5, +90°C (-40°C) (Neoprene)

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Type W Reeling-flex
2000 V

ASTM B-33, UL 44, UL 1650, CSA C22.2 No.96-17

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

APPLICATIONS

Portable power systems. Mining applications where bare grounding conductors are not required. Other industrial applications.

CONSTRUCTION

Conductors	Annealed flexible stranded tinned copper
Separator	Separator between conductor and insulation
Insulation	Ethylene-propylene rubber (EPR)
Circuit identification 2-core	Black, white
Assembly	Power cores and rubber fillers cabled together to form a round core
Separator	Single faced rubber filled binder tape applied over core
Jacket	Black heavy duty reinforced poly-chloroprene thermosetting compound
Bending radius	Minimum 6 x outer diameter

Features

Excellent flexibility. Highly ozone, sun, weather and flame resistant. Rated and flexible at –40°C to +90°C. Excellent impact and abrasion resistant. Oil and heat resistant. Indent printed for easy identification.

Approvals

UL: E207132 - Oil Resistant Oil Resistant Inners, Sunlight resistant 90 C Wet or Dry
C(UL): E207132, FT1, FT5 -40°C to +90°C **MSHA:** P-7K-268077

Technical and Electrical Characteristic

Part Number	Size	Conductor Strand	Nominal Insulation Thickness		Outside Diameter		Approx. weight		Ampacity(1)
	AWG or MCM		**Inches**	**mm**	**Inches**	**mm**	**Lbs. per 1000ft.**	**kg/km**	**A**
2 CONDUCTOR									
W8-2 FLEX*	8 AWG	133 7x19	0.06	1.52	0.80	20.3	407	605	74
W6-2 FLEX	6 AWG	133 7x19	0.06	1.52	0.92	23.3	552	822	99
W4-2 FLEX	4 AWG	259 7x37	0.06	1.52	1.03	26.2	752	1119	130
W2-2 FLEX	2 AWG	259 7x37	0.06	1.52	1.22	30.9	1088	1619	174

(1) Ampacities based on 90°C Conductor and 30°C Ambient temperature per table 400.5(A)(2) of the National Electrical Code®

** Not covered by MSHA P-7K-268077 certificate*

Standard print legend:

For size 6AWG and larger	**For size 8AWG**
TF CABLE (SIZE) TYPE W PORTABLE POWER CABLE 2000V 90C SUN RES OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT1 FT5 (-40°C) P-7K-268077-MSHA	TF CABLE (SIZE) TYPE W PORTABLE POWER CABLE 2000V 90C SUN RES OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT1 FT5 (-40°C)

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Multi-conductor Type W

2000 V

ASTM B-33, UL 44, UL 1650, CSA C22.2 No.96-17

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

APPLICATIONS

Portable power systems. Mining applications where bare grounding conductors are not required. Other industrial applications

CONSTRUCTION

Conductors	Soft drawn flexible stranded tinned copper wires
Separator	Tape separator between conductor and insulation
Insulation	Ethylene-propylene rubber (EPR)
Circuit identification	
3-core	Black, white, green
4-core	Black, white, red, green
5-core	Black, white, red, green, orange
6-core	Black, white, red, green, orange, blue
Assembly	Power cores and rubber fillers cabled together to form a round core
Separator	Single faced rubber filled binder tape applied over core
Jacket	Black heavy duty CPE thermosetting compound
Bending radius	Minimum 6 x outer diameter

Features

Excellent flexibility. Highly ozone, sun, weather and flame resistant. Rated and flexible at –40°C to +90°C. Excellent impact and abrasion resistant. Oil and heat resistant. Indent printed for easy identification. Suitable for shallow water immersion.

Approvals

UL: E207132 - Oil Resistant Oil Resistant Inners, Sunlight resistant 90°C Wet or Dry
C(UL): E207132, FT1, FT5 -40°C to +90°C, **MSHA:** P-7K-268101

Technical and Electrical Characteristic

Part Number	Size	No. of cond.	Conductor Strand	Nominal Insulation Thickness		Outside Diameter		Approx. weight		Ampacity(1)
	AWG or MCM	**N**	**No. of wires**	**Inches**	**mm**	**Inches**	**mm**	**Lbs. per 1000ft.**	**kg/km**	**A**
3 CONDUCTOR										
W8-3	8 AWG	3	133	0.06	1.52	0.96	24.3	565	841	74
W6-3	6 AWG	3	259	0.06	1.52	1.03	26.2	698	1038	99
W4-3	4 AWG	3	259	0.06	1.52	1.14	29.0	944	1405	130
W2-3	2 AWG	3	259	0.06	1.52	1.29	32.8	1306	1944	174
W1-3	1 AWG	3	259	0.06	1.52	1.46	37.0	1639	2439	202
W1/0-3	1/0 AWG	3	266	0.08	2.03	1.59	40.3	1991	2963	234
W2/0-3	2/0 AWG	3	342	0.08	2.03	1.69	42.8	2380	3541	271
W3/0-3	3/0 AWG	3	418	0.08	2.03	1.81	46.1	2808	4179	313
W4/0-3	4/0 AWG	3	532	0.08	2.03	1.96	49.7	3425	5097	361
W250-3	250 MCM	3	627	0.095	2.41	2.29	58.2	4258	6336	402
W350-3	350 MCM	3	888	0.095	2.41	2.57	65.2	5650	8408	495
W500-3	500 MCM	3	1221	0.095	2.41	2.90	73.7	7445	11079	613
4 CONDUCTOR										
W8-4	8 AWG	4	133	0.06	1.52	0.98	24.9	626	931	65
W6-4	6 AWG	4	259	0.06	1.52	1.10	28.0	831	1237	87
W4-4	4 AWG	4	259	0.06	1.52	1.22	30.9	1134	1687	114
W2-4	2 AWG	4	259	0.06	1.52	1.44	36.6	1661	2471	152
W1-4	1 AWG	4	259	0.06	1.52	1.59	40.4	2035	3028	177
W1/0-4	1/0 AWG	4	266	0.08	2.03	1.70	43.3	2423	3605	205
W2/0-4	2/0 AWG	4	342	0.08	2.03	1.85	47.1	2993	4454	237
W3/0-4	3/0 AWG	4	418	0.08	2.03	1.96	49.9	3476	5173	274
W4/0-4	4/0 AWG	4	532	0.08	2.03	2.15	54.7	4340	6458	316
W250-4	250 MCM	4	627	0.095	2.41	2.53	64.2	5381	8008	352
W350-4	350 MCM	4	888	0.095	2.41	2.83	71.8	7137	10620	433
W500-4*	500 MCM	4	1221	0.095	2.41	3.24	82.2	9507	14147	536
5 CONDUCTOR										
W8-5	8 AWG	5	133	0.06	1.52	1.03	26.2	698	1039	52
W6-5	6 AWG	5	259	0.06	1.52	1.20	30.4	978	1455	70
W4-5	4 AWG	5	259	0.06	1.52	1.37	34.7	1406	2092	91
W2-5	2 AWG	5	259	0.06	1.52	1.56	39.5	1967	2928	122
W1-5	1 AWG	5	259	0.06	1.52	1.81	46.1	2567	3821	142

* Covered by MSHA P-7K-268101-1 certificate

Part Number	Size	No. of cond.	Conductor Strand	Nominal Insulation Thickness		Outside Diameter		Approx. weight		Ampacity(1)
	AWG or MCM	**N**	**No. of wires**	**Inches**	**mm**	**Inches**	**mm**	**Lbs. per 1000ft.**	**kg/km**	**A**
W1/0-5	1/0 AWG	5	266	0.08	2.03	1.94	49.2	3045	4532	164
W2/0-5	2/0 AWG	5	342	0.08	2.03	2.02	51.3	3585	5335	190
W3/0-5	3/0 AWG	5	418	0.08	2.03	2.23	56.6	4353	6479	219
W4/0-5	4/0 AWG	5	532	0.08	2.03	2.35	59.8	5221	7770	253
6 CONDUCTOR										
W6-6	6 AWG	6	259	0.06	1.52	1.30	32.9	1163	1731	70

(1) Ampacities based on 90°C Conductor and 30°C Ambient temperature per table 400.5(A)(2) of the National Electrical Code®
Green conductor for grounding conductor purpose only

Standard print legend:

For size W500-4	**For the rest of the sizes:**
TF CABLE (SIZE) TYPE W PORTABLE POWER CABLE 2000V 90 C SUN RES OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT1 FT5 (-40C) P-7K-268101-1-MSHA	TF CABLE (SIZE) TYPE W PORTABLE POWER CABLE 2000V 90 C SUN RES OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT1 FT5 (-40C) P-7K-268101-MSHA

Special factory option

Jacket:	Other colors available
MSHA:	P-7K-268077 (Neoprene)
	(For sizes 6AWG-500MCM 3 conductor version)
	(For sizes 6AWG-350MCM 4 conductor version)
	(For sizes 6AWG-4/0AWG 5 conductor version)
	(For sizes 6AWG-1AWG 6 conductor version)
CSA:	1523058 (LR 103932)- FT1, FT5, +90°C (-40°C) (Neoprene)

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Type G-GC
2000V

ASTM B-33, UL 44, UL 1650, CSA C22.2 No.96-17

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

APPLICATIONS

Use on AC off track equipment such as miners, shuttle cars, cutting machines, drills, conveyors and pumps. Power to open pit strip and deep mines. For applications requiring ground check for added safety. Other industrial applications

CONSTRUCTION

Conductors	Soft drawn flexible stranded tinned copper wires
Separator	Tape separator between conductor and insulation
Insulation	Ethylene-propylene rubber (EPR)
Grounding conductors	Soft drawn flexible stranded tinned copper. Green EPR insulation over conductors
Ground check conductor	Soft drawn flexible stranded tinned copper. Yellow EPR insulation over conductor
Color Code	Black, white, red
Assembly	Power, ground check and grounds cores cabled together to form a round core.
Reinforcement	Single faced rubber filled binder tape over core.
Jacket	Black heavy duty, integral-filled CPE thermosetting compound.
Bending radius	Minimum 6 x outer diameter.

Features

Excellent flexibility. Water resistant and flame resistant. Rated and flexible at –40°C to +90°C. Excellent impact and abrasion resistant. Ozone, sunlight, oil, grease weather and chemical resistant

Approvals

UL: E207132 - Oil Resistant Oil Resistant Inners, Sunlight resistant 90°C Wet or Dry
C(UL): E207132, FT1, FT5 -40°C to +90°C, **MSHA:** P-7K-268101

Technical and Electrical Characteristic

Part Number	Power conductor size	Power conductor stranding	Size		Nominal Insulation Thickness		Outside Diameter		Approx. Weight		Ampacity(1)
			GRD	GC							
	AWG or MCM	**No. of wires**	**AWG**		**Inches**	**mm**	**Inches**	**mm**	**Lbs./1000ft.**	**kg/km**	**A**
GGC12-3*	12	65	12	12	0.06	1.52	0.79	20.0	384	571	35
GGC10-3*	10	49	10	12	0.06	1.52	0.80	20.3	444	660	49
GGC8-3	8	133	10	10	0.06	1.52	0.99	25.1	666	991	65
GGC6-3	6	133	10	10	0.06	1.52	1.05	26.6	787	1171	87
GGC4-3	4	259	8	10	0.06	1.52	1.14	29.0	1048	1560	114
GGC2-3	2	259	7	8	0.06	1.52	1.30	33.0	1448	2155	152
GGC1-3	1	259	6	8	0.08	2.03	1.46	37.2	1807	2689	177
GGC1/0-3	1/0	266	5	8	0.08	2.03	1.60	40.7	2206	3283	205
GGC2/0-3	2/0	342	4	8	0.08	2.03	1.75	44.5	2736	4072	237
GGC3/0-3	3/0	418	3	8	0.08	2.03	1.86	47.2	3178	4729	274
GGC4/0-3	4/0	532	2	8	0.08	2.03	1.96	49.7	3718	5533	316
GGC250-3	250	627	1	6	0.095	2.41	2.39	60.7	4917	7317	352
GGC350-3	350	888	1/0	6	0.095	2.41	2.68	68.1	6449	9597	433
GGC500-3	500	1221	3/0	6	0.095	2.41	3.03	77.0	8642	12860	536

(1) Ampacities based on 90°C Conductor and 30°C Ambient temperature per table 400.5(A)(2) of the National Electrical Code®
** Not covered by MSHA P-7K-268101 certificate*

Standard print legend:

For size 8AWG and larger	**For size up to 10 AWG**
TF CABLE (SIZE) TYPE G-GC PORTABLE POWER CABLE 2000V 90C SUN RES OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT1 FT5 (-40°C) P-7K-268101-MSHA	TF CABLE (SIZE) TYPE G-GC PORTABLE POWER CABLE 2000V 90C SUN RES OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT1 FT5 (-40°C)

Special factory option

Jacket:	Other colors available
MSHA:	P-7K-268077 (Neoprene) (For sizes 6AWG-500MCM)
CSA:	1523058 (LR 103932) -FT1; FT5 ; 90°C (-40°C) (Neoprene) for 3 cores version
Jacket TPU:	Other colors available
MSHA:	P-07-KA120001 (TPU) (For sizes 3x8AWG ÷ 3x500MCM)

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Type G
2000V

ASTM B-33, UL 44, UL 1650, CSA C22.2 No.96-17

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

APPLICATIONS

Use on AC off track equipment such as miners, shuttle cars, cutting machines, drills, conveyors and pumps. Power to open pit strip and deep mines. For applications requiring ground check for added safety. Other industrial applications

CONSTRUCTION

Conductors	Annealed flexible stranded tin copper
Separator	Tape separator between conductor and insulation
Insulation	Ethylene-propylene rubber (EPR)
Grounding conductors	Annealed flexible stranded tin copper. Green EPR insulation over conductors
Color Code	Black, white, red, orange
Assembly	Power and grounds cores cabled together to form a round core
Reinforcement	Single faced rubber filled binder tape over core.
Jacket	Black heavy duty CPE thermosetting compound.
Bending radius	Minimum 6 x outer diameter.
Bending radius	Minimum 6 x outer diameter.

Features

Excellent flexibility. Water resistant and flame resistant. Rated and flexible at –40°C to +90°C. Excellent impact and abrasion resistant. Ozone, sunlight, oil, grease weather and chemical resistant

Approvals

UL: E207132 - Oil Resistant Oil Resistant Inners, Sunlight resistant 90°C Wet or Dryy
C(UL): E207132, FT1, FT5 -40°C to +90°C, **MSHA:** P-7K-268101

Technical and Electrical Characteristic

Part Number	Power conductor size	Power conductor stranding	Size GRD	Nominal Insulation Thickness		Outside Diameter		Approx. Weight		Ampacity(1)
	AWG or MCM	**No. of wires**	**AWG**	**Inches**	**mm**	**Inches**	**mm**	**Lbs./1000ft.**	**kg/km**	**A**
G8-4	8	133	12	0.06	1.52	0.98	24.9	679	1010	52
G6-4	6	259	12	0.06	1.52	1.10	28.0	890	1325	70
G4-4	4	259	10	0.06	1.52	1.22	30.9	1226	1824	91
G3-4	3	259	10	0.06	1.52	1.29	32.8	1419	2112	106
G2-4	2	259	9	0.06	1.52	1.44	36.6	1782	2652	122
G1-4	1	259	8	0.08	2.03	1.59	40.4	2184	3250	142
G1/0-4	1/0	266	7	0.08	2.03	1.70	43.3	2611	3886	164
G2/0-4	2/0	342	6	0.08	2.03	1.85	47.1	3256	4845	190
G3/0-4	3/0	418	5	0.08	2.03	1.96	49.9	3778	5622	219
G4/0-4	4/0	532	4	0.08	2.03	2.15	54.7	4655	6927	253
G250-4	250	627	3	0.095	2.41	2.53	64.2	5844	8696	282
G350-4	350	888	1	0.095	2.41	2.83	71.8	7924	11791	346

(1) Ampacities based on 90°C Conductor and 30°C Ambient temperature per table 400.5(A)(2) of the National Electrical Code®

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) FT1 FT 5 (-40C) P-7K-268101-MSHA

Special factory option

Jacket:	Other colors available
MSHA:	P-7K-268077 (Neoprene) (For sizes 6AWG -350MCM)
CSA:	1523058 (LR 103932) -FT1; FT5 ; 90°C (-40°C) (Neoprene)
Jacket TPU:	Other colors available

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UV RoHS +90°C -40°C

DLO 2000V
RHH/RHW-2 2000V
RW90/RW90-TC 1000V

UL 44, UL 1685, IEEE-1202, CSA c22.2 No. 38 CSA C22.2 No. 230
ASTM B-172, ASTM B-174, ASTM B-33, AAR RP-588, RP-586

Portable Power Cables 90°C UL C(UL) MSHA Industrial Grade

APPLICATIONS

Designed for uses requiring a flexible power cables. For portable or fixed installations. Leads for motors generators, batteries, jumper cables. Deep well Submersible Pump Cable. Other industrial applications

CONSTRUCTION

Nominal voltage	RHH/RHW-2 600 and 2000V, RW-90 CSA 1kV, DLO 2kV
Conductors	Annealed flexible stranded tinned copper, ASTM B-172, ASTM B-174, ASTM B-33
Separator	All sizes except for 14AWG have tape separator between conductor and insulation
Insulation	Ethylene-propylene rubber (EPR),UL,CSA, ICEA, AAR RP-588, 90°C
Jacket	Black heavy duty CPE thermosetting compound, ICEA S-95-658 NEMA WC-70, AAR-586
Bending radius	For fixed minimum 4xD Minimum 6 x D, D- outer diameter of cable

Features

UL listed RHH/RHW-2 600V and 2000V for black jacket. Rated 2kV DLO, 1kV RW90. 90°C (dry), 90°C (wet). Ozone, sunlight, oil, grease, weather, chemical and abrasion resistant. Rated RW90-TC (Tray Cable) for sizes 1/0 and larger. MSHA, VW-1, SUN RES, FOR CT USE for sizes 1/0AWG and larger and for black jacket. Limited Smoke (LS) ST1 in accordance with (UL) 1685. CSA listed RW90, RW90-TC (for black jacket) 1kV

Approvals

UL: E193954(CPE jacket) RHW-2 90°C wet and dry, VW-1 Sun Res, for 1/0 and larger ST1, FT4 IEEE 1202, for CT use
C(UL): E193954 Type RW90 EP,1kV FT1, **CSA:** 1101269, LL 103932:205591, RW90°C FT1, FT4, -40°C, for 1/0AWG and larger, Oil Res, Tray Cable, Sun Res, **MSHA:** P-7K-268080-01

Technical and Electrical Characteristic

Part Number	Power Conductor Size	Power Conductor	Conductor Diameter	Nominal insulation	Nominal jacket	Overall diameter			Weight		Ampacity at 30°C
		Stranding		thickness	thickness	minimum	approx	maximum			in air
	AWG or MCM		**Inches**	**Inches**	**Inches**	**Inches**	**Inches**	**Inches**	**LBS/ 1000ft**	**kg/km**	**A**
DLO14	14	19#27	0.072	0.045	0.015	0.176	0.192	0.236	28	41	35
DLO12	12	19#25	0.091	0.045	0.015	0.199	0.215	0.256	38	56	40
DLO10	10	27#24	0.123	0.045	0.030	0.261	0.277	0.290	63	93	55
DLO8	8	41/#24	0.148	0.055	0.030	0.286	0.302	0.333	92	136	80
DLO6	6	65/#24	0.186	0.060	0.030	0.354	0.370	0.403	128	191	105
DLO4	4	105/#24	0.240	0.060	0.030	0.408	0.424	0.461	188	280	140
DLO2	2	168/#24	0.315	0.060	0.045	0.501	0.528	0.540	292	435	190
DLO1	1	225/#24	0.363	0.080	0.045	0.593	0.613	0.650	394	587	220
DLO1/0	1/0	273/#24	0.417	0.080	0.045	0.652	0.671	0.700	468	696	260
DLO2/0	2/0	329/#24	0.457	0.080	0.045	0.691	0.711	0.740	545	811	300
DLO3/0	3/0	450/#24	0.533	0.080	0.045	0.768	0.787	0.815	720	1072	350
DLO4/0	4/0	551/#24	0.590	0.080	0.065	0.850	0.884	0.890	886	1320	405
DLO262	262.6	644/#24	0.636	0.090	0.065	0.931	0.950	0.990	1032	1536	471
DLO313	313.1	772/#24	0.700	0.090	0.065	0.991	1.015	1.055	1209	1800	511
DLO373	373.1	925/#24	0.772	0.090	0.065	1.063	1.086	1.125	1422	2116	590
DLO444	444.4	1091/#24	0.854	0.090	0.065	1.145	1.169	1.205	1652	2458	656
DLO535	535.3	1325/#24	0.906	0.090	0.065	1.196	1.220	1.300	1965	2924	731
DLO646	646.4	1584/#24	0.996	0.090	0.065	1.283	1.311	1.410	2312	3441	815
DLO777	777.7	1925/#24	1.102	0.090	0.065	1.370	1.397	1.500	2778	4134	905
DLO929	929.2	2281/#24	1.197	0.090	0.065	1.484	1.511	1.610	3246	4831	1005
DLO1111	1111 MCM	2727/24	1,325	0,140	0.095	1,76	1,799	1,858	4077	6067	1115

Ampacity

Based on single conductor in free air, 30°C ambient temperature, 90°C conductor temperature
Per NEC Table 310.17
For ambient temperature other than 30°C, multiply the allowable ampacities shown above by the appropriate factor shown below.

Correction factors for ambient temperature

Temperature of air°C	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80
Correct. factor	1,04	1,0	0,96	0,91	0,87	0,82	0,76	0,71	0,58	0,41

Per NEC Table 310.17

Standard print legend:

1AWG and smaller	**1/0 AWG and larger**
TF CABLE (size) 90C DLO 2KV P-7K-268080-01-MSHA - E193954 (UL) RHW–2 2KV VW–1 SUN RES - CSA 205591 RW90 EPR 1000V -40C FT1 FT4	TF CABLE (size) 90C DLO 2KV P-7K-268080-01-MSHA - E193954 (UL) RHW–2 2KV VW-1 ST1 SUN RES - CSA 205591 RW90 EPR 1000V -40C FT1 FT4 TC SR Oil Res

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Type G-GC
2000V

ASTM B-33, UL 44, UL 1650, ICEA S-75-381, CSA C22.2 No.96-17

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

APPLICATIONS

Use on AC off track equipment such as miners, shuttle cars, cutting machines, drills, conveyors and pumps. Power to open pit strip and deep mines. For applications requiring ground check for added safety. Other industrial applications

CONSTRUCTION

Conductors	Annealed flexible stranded tin copper
Separator	Tape separator between conductor and insulation
Insulation	Ethylene-propylene rubber (EPR)
Grounding conductors	Annealed flexible stranded tin copper. Green polyester tape over conductors
Ground check	Yellow PP insulated annealed flexible stranded tin copper conductor
Color Code	Black, white, red
Assembly	Sizes 4/0AWG and smaller: Three power, ground check and two grounding conductors cabled together Sizes 250MCM and larger: Three power, ground check and two grounding conductors cabled with rubber fillers to make round core. Single faced rubber filled binder tape applied over core
Reinforcement	Nylon open braid applied over core
Jacket	Black extra heavy duty CPE thermosetting compound
Bending radius	Minimum 6 x outer diameter

Features

Excellent flexibility. Water resistant and flame resistant. Rated and flexible at –40°C to +90°C. Excellent impact and abrasion resistant. Ozone, sunlight, oil, grease weather and chemical resistant

Approvals

UL: E207132 - Oil Resistant Oil Resistant Inners, Sunlight resistant 90°C Wet or Dry
C(UL): E207132, FT1, FT5 -40°C to +90°C,, **MSHA:** P-7K-268101

Technical and Electrical Characteristic

Part Number	Power conductor size	Power conductor stranding	Size		Nominal Insulation Thickness		Outside Diameter		Approx. Weight		Ampacity(1)
			GRD	GC							
	AWG or MCM	**No. of wires**	**AWG**		**Inches**	**mm**	**Inches**	**mm**	**Lbs. /1000ft.**	**kg/km**	**A**
GGC8-3-MNG	8	133	10	10	0.06	1.52	0.97	24.6	637	948	65
GGC6-3-MNG	6	133	10	10	0.06	1.52	1.04	26.4	769	1145	87
GGC4-3-MNG	4	259	8	10	0.06	1.52	1.18	30.0	1077	1602	114
GGC2-3-MNG	2	259	7	8	0.06	1.52	1.33	33.8	1454	2164	152
GGC1-3-MNG	1	259	6	8	0.08	2.03	1.50	38.1	1837	2734	177
GGC1/0-3-MNG	1/0	266	5	8	0.08	2.03	1.63	41.4	2218	3300	205
GGC2/0-3-MNG	2/0	342	4	8	0.08	2.03	1.73	44.0	2666	3968	237
GGC3/0-3-MNG	3/0	418	3	8	0.08	2.03	1.86	47.2	3153	4692	274
GGC4/0-3-MNG	4/0	532	2	8	0.08	2.03	2.01	51.0	3857	5739	316
GGC250-3-MNG	250	627	1	6	0.095	2.41	2.35	59.7	4869	7245	352
GGC350-3-MNG	350	888	1/0	6	0.095	2.41	2.64	67.1	6434	9574	433
GGC500-3-MNG	500	1221	3/0	6	0.095	2.41	2.99	76.0	8645	12864	536

(1) Ampacities based on 90°C Conductor and 30°C Ambient temperature per table 400.5(A)(2) of the National Electrical Code®

Standard print legend:

TF CABLE (SIZE) TYPE G-GC PORTABLE POWER CABLE 2000V 90 C SUN RES OIL RES 90C WET OR DRY (UL) E 207132 C(UL) FT1 FT5 (-40C) P-7K-268101-MSHA

Special factory option

Jacket:	Other colors available
MSHA:	P-7K-268077 (Neoprene) (For sizes 6AWG-500MCM)
CSA:	1523058 (LR 103932) -FT1; FT5 ; 90°C (-40°C) (Neoprene)
Jacket TPU:	Other colors available
MSHA:	P-07-KA120001 (TPU)

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MP-GC

5000V/15000V

ICEA S-75-381 / NEMA WC58

Mine Power Feeder Cable – XLPE / PVC 90°C MSHA Mining Grade

APPLICATIONS

- bore holes
- shafts
- horizontal runs in underground entries
- aerial suspensions on insulators
- other semi-permanent and permanent mining and industrial feeder installations

CONSTRUCTION

Conductor	Bare copper, concentric strand ASTM B8
Conductor shield	Extruded semi-conducting compound
Insulation	Cross-linked polyethylene (XLPE) 90°C
Insulation shield	Extruded semi-conducting compound, copper tape
Grounding cond	Bare copper class B
Ground check	Bare copper, ICEA S-75-381 sec. 4.6; yellow XLPE 45 mils insulation
Assembly	Three power conductors, ground check and two non-insulated grounding conductors cabled together with fillers to form round core; polyester binder tape applied overall
Jacket	Black flame retardant PVC, ICEA S-75-381 table 4-7 (other colors available)
Color code	Color code tape: black, white, red applied under metallic shielding tape provides circuit identification, ICEA S-75-381 sec. 4.6

Characteristic

Maximum conductor operating temperature:	+90°C
Maximum conductor emergency overload temperature:	+130°C
Maximum short-circuit conductor temperature:	+250°C
Lowest ambient temperature for mixed installation	-40°C
Lowest installation temperature	-5°C
Minimum bending radius	12xD (D-overall diameter of cable)

5000 V – 100% insulation level

Part Number	Conductor Size	Conductor Strands	Size		Insulation Thickness	Jacket Thickness	Outer Diameter	Cable Weight	Ampacities *
			Ground	Ground check					
	AWG / MCM	**No**	**AWG**	**AWG**	**inches**	**inches**	**inches**	**lbs/kft**	**A**
MPGC5KV2/0-3	2/0	19	3	8	0.090	0.110	1.81	2660	243
MPGC5KV4/0-3	4/0	37	1			0.140	2.06	3760	321

** Ampacity – Free air measured; based on continuous duty at 90 °C conductor temperature*

15000 V – 100% insulation level

Part Number	Conductor Size	Conductor Strands	Size		Insulation Thickness	Jacket Thickness	Outer Diameter	Cable Weight	Ampacities *
			Ground	Ground check					
	AWG / MCM	**No**	**AWG**	**AWG**	**inches**	**inches**	**inches**	**lbs/kft**	**A**
MPGC15KV2/0-3	2/0	19	3	8	0.175	0.140	2.20	3190	246
MPGC15KV4/0-3	4/0	37	1				2.45	4310	325

** Ampacity – Free air measured; based on continuous duty at 90 °C conductor temperature*

Standard print legend:

TF CABLE (VOLTAGE) (SIZE) GROUNDED MP-GC P-7K-254064-1-MSHA

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MP-GC
8000V/15000V
EPR/CPE

ICEA S-75-381/NEMA WC-58,ASTM B-8

Mine Power Feeder Cable Extra Heavy Duty EPR/CPE 90°C MSHA Mining grade

APPLICATIONS

For use as trailing mining cables. For use from 5 kV up to 25kV when installed inducts, conduit, open air and direct burial in wet and dry locations. Other industrial, mining applications

CONSTRUCTION

Conductors	Annealed bare copper conductor Class B in accordance with ASTM B 8.
Conductor shield	Semi-conductive tape and layer over the conductor.
Insulation	Ethylene-propylene rubber (EPR).
Insulation shield	Semi-conducting compound and copper tape.
Circuit identification	Colour thread: black, red white applied under metallic shielding tape.
Grounding	Annealed tin coated copper Class B in accordance with ASTM B 8.
Ground check	Annealed bare copper conductor Class B in accordance with ASTM B 8. Insulation colour: yellow.
Assembly	Three power, the ground check, two tinned copper grounding conductors cabled with cured rubber fillers as required to make an essentially round core.
Separator	A single faced rubber filled binder tape applied over core.
Outer jacket	Extra heavy duty, CPE thermosetting compound.
Colour of outer jacket	Black or colours can be provided.

Features

Ozone, sun, weather and flame resistant. Oil and heat resistant. Maximum continuous conductor temperature 90°C. Indent printed for easy identification.

Approvals

MSHA:P-07-KA050003-1

Technical and Electrical Characteristic

Part Number	Power Conductor Size	Power Conductor Stranding	Size		Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal O.D.		Approx. Weight		Maximum Permissible Tensile Force
			Ground	Ground Check							
	AWG or MCM	**No. of wires**	**AWG**	**AWG**			**Inches**	**mm**	**Lbs /1000ft**	**kg/km**	**N**
TYPE MP-GC -8000 VOLTS -100% INSULATION LEVEL											
MPGC8KV4-3-CPE	4	7	8	8	0,115	0,110	1,43	36,3	1410	2042	950
MPGC8KV2-3-CPE	2	7	6	8	0,115	0,110	1,55	39,4	1750	2604	1500
MPGC8KV1-3-CPE	1	19	5	8	0,115	0,110	1,65	41,9	2050	3051	1900
MPGC8KV1/0-3-CPE	1/0	19	4	8	0,115	0,140	1,75	47,5	2899	4316	2400
MPGC8KV2/0-3-CPE	2/0	19	3	8	0,115	0,140	1,88	49,8	2900	4316	3000
MPGC8KV4/0-3-CPE	4/0	37	1	8	0,115	0,140	2,12	53,8	4100	6102	4800
MPGC8KV250-3-CPE	250	37	1/0	8	0,115	0,140	2,25	57,2	4720	7024	5800
MPGC8KV350-3-CPE	350	37	2/0	8	0,115	0,140	2,46	62,5	6070	9030	7900
TYPE MP-GC -15000 VOLTS -100% INSULATION LEVEL											
MPGC15KV4-3-CPE	4	7	8	8	0,175	0,140	1,84	46,7	2140	3185	950
MPGC15KV2-3-CPE	2	7	6	8	0,175	0,140	1,88	47,8	2285	3400	1500
MPGC15KV1-3-CPE	1	19	5	8	0,175	0,140	1,98	52,0	2680	3990	1900
MPGC15KV1/0-3-CPE	1/0	19	4	8	0,175	0,140	2,05	52,1	2785	4145	2400
MPGC15KV2/0-3-CPE	2/0	19	3	8	0,175	0,140	2,15	54,6	3295	4904	3000
MPGC15KV4/0-3-CPE	4/0	37	1	8	0,175	0,140	2,40	61,0	4605	6853	4800
MPGC15KV250-3-CPE	250	37	1/0	8	0,175	0,140	2,50	63,5	4980	7400	5800
MPGC15KV350-3-CPE	350	37	2/0	8	0,175	0,140	2,75	69,9	6370	9478	7900
MPGC15KV500-3-CPE	500	37	4/0	8	0,175	0,140	3,10	78,7	8760	13030	11400

Electrical 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 (1s) (2)	Ampacity(1) 40°C Ambient Temp
AWG or MCM	**Ω/1000Ft**	**Ω/1000Ft**	**Ω/1000Ft**	**mH/1000Ft**	**μF/1000Ft**	**kA**	**A**
TYPE MP-GC -8000 VOLTS -100% INSULATION LEVEL							
4 AWG	0,258	0,678	0,652	0,117	0,09	3,03	122
2 AWG	0,162	0,427	0,652	0,111	0,10	4,80	159
1 AWG	0,129	0,338	0,652	0,107	0,11	6,06	184
1/0 AWG	0,102	0,269	0,652	0,104	0,12	7,65	211
2/0 AWG	0,081	0,213	0,652	0,098	0,14	9,64	243
4/0 AWG	0,051	0,134	0,652	0,093	0,16	15,30	321
250 MCM	0,043	0,102	0,652	0,087	0,20	18,16	355
350 MCM	0,031	0,081	0,652	0,083	0,22	25,31	435
TYPE MP-GC -15000 -100% INSULATION LEVEL							
4 AWG	0,258	0,678	0,652	0,129	0,07	3,03	122
2 AWG	0,162	0,427	0,652	0,122	0,08	4,80	164
1 AWG	0,129	0,338	0,652	0,118	0,08	6,06	187
1/0 AWG	0,102	0,269	0,652	0,114	0,09	7,65	215
2/0 AWG	0,081	0,213	0,652	0,107	0,10	9,64	246
4/0 AWG	0,051	0,134	0,652	0,102	0,11	15,30	325
250 MCM	0,043	0,102	0,652	0,094	0,14	18,16	355
350 MCM	0,031	0,081	0,652	0,090	0,16	25,31	435
500 MCM	0,022	0,051	0,652	0,086	0,18	36,18	536

(1) Ampacity –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:

TTF CABLE (VOLTAGE) (SIZE) GROUNDED MP-GC P-07-KA050003-1

Special factory option

Jacket other color available

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SHD-GC

2kV

ICEA S-75-381/NEMA WC-58

Round portable power cable Mining grade

APPLICATIONS

Use on AC off track equipment such as long wall miners loaders, drills, shovels, conveyors, pumps and mobile equipment requiring grounding conductors and a ground check conductor and metallic shielding overall. Other industrial, mining applications

CONSTRUCTION

Conductors	Soft drawn flexible stranded tinned copper wires
Separator	Polyester tape
Insulation	Ethylene-propylene rubber (EPR)
Insulation shield	None-conducting bedding tape + composite tinned copper/ polyamide braid. Covering minimum 60%.
Circuit identification	The polyamide in the shielding braid is coloured black, white, red
Grounding	Soft drawn flexible stranded tinned copper wires
Ground check	Yellow PP insulated soft drawn flexible stranded tinned copper wires
Assembly	Three power, ground check and two non-insulated grounding conductors cabled together to form a round cable core
Separator	Polyamide open braid applied overall
Outer jacket	Extra heavy duty, high torsion resistant, integral-filled, reinforced poly-chloroprene (CR) thermosetting jacket
Colour of outer jacket	Black
Minimum bending radius	Eight times overall diameter of the cable

Features

Excellent flexibility. Highly ozone, sun, weather and flame resistant. Rated and flexible at -40°C. Excellent impact and abrasion resistant. Oil and heat resistant. Indent printed for easy identification

Approvals

MSHA: P-07-KA060012-2

Selection Data

Part Number	Cond. Size	Cond. Strand	Cond. Size		Nominal Insulation Thickness		Nominal Jacket Thickness		Outside Diameter		Approx. Weight		Max. Tensile Force
			GRD	GC									
	AWG/ MCM	**No. of wires**	**AWG**		**Inches**	**mm**	**Inches**	**mm**	**Inches**	**mm**	**Lbs./ 1000ft.**	**kg/km**	**N**
SHDGC2KV8-3*	8	133	10	12	0.070	1.78	0.155	3.94	1.07	27.2	764	1137	380
SHDGC2KV6-3	6	133	10	10	0.070	1.78	0.155	3.94	1.24	31.6	1038	1545	600
SHDGC2KV4-3	4	259	8	10	0.070	1.78	0.155	3.94	1.35	34.3	1331	1980	950
SHDGC2KV2-3	2	259	6	8	0.070	2.03	0.170	4.32	1.53	38.9	1816	2702	1500
SHDGC2KV1-3	1	259	5	8	0.080	2.03	0.190	4.83	1.69	43.0	2226	3313	1900
SHDGC2KV1/0-3	1/0	266	4	8	0.080	2.03	0.190	4.83	1.79	45.4	2605	3876	2400
SHDGC2KV2/0-3	2/0	342	3	8	0.080	2.03	0.205	5.21	1.92	48.8	3121	4645	3000
SHDGC2KV3/0-3	3/0	418	2	8	0.080	2.03	0.205	5.21	2.05	52.0	3674	5467	3800
SHDGC2KV4/0-3	4/0	532	1	8	0.080	2.03	0.220	5.59	2.22	56.3	4439	6606	4800
SHDGC2KV250-3	250	627	1/0	8	0.095	2.41	0.220	5.59	2.41	61.1	5167	7689	5800
SHDGC2KV300-3	300	740	1/0	8	0.095	2.41	0.235	5.97	2.57	65.2	5879	8749	6825
SHDGC2KV350-3	350	888	2/0	8	0.095	2.41	0.235	5.97	2.69	68.3	6591	9808	7900
SHDGC2KV500-3	500	1221	4/0	8	0.095	2.41	0.265	6.73	3.05	77.5	9178	13657	11400

** Based on ICEA S-75-381 NEMA WC 58*

Electrical 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 (1s) (2)	Ampacity(1) 40°C Ambient Temp
AWG or MCM	**Ω/1000Ft**	**Ω/1000Ft**	**Ω/1000Ft**	**mH/1000Ft**	**μF/1000Ft**	**kA**	**A**
6 AWG	0,436	1,08	1,08	0,118	0,09	1,90	93
4 AWG	0,274	0,679	1,08	0,107	0,11	3,03	122
2 AWG	0,172	0,436	0,679	0,101	0,13	4,80	159
1 AWG	0,137	0,346	0,679	0,100	0,13	6,06	184
1/0 AWG	0,109	0,274	0,679	0,097	0,14	7,65	211
2/0 AWG	0,0868	0,217	0,679	0,092	0,16	9,64	243

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 (1s) (2)	Ampacity(1) 40°C Ambient Temp
AWG or MCM	**Ω/1000Ft**	**Ω/1000Ft**	**Ω/1000Ft**	**mH/1000Ft**	**μF/1000Ft**	**kA**	**A**
3/0 AWG	0,0688	0,172	0,679	0,091	0,17	12,15	279
4/0 AWG	0,0546	0,137	0,679	0,088	0,19	15,30	321
250 MCM	0,0466	0,109	0,679	0,084	0,21	18,16	355
300 MCM	0.0389	0,109	0,679	0,083	0,22	21,74	398
350 MCM	0,0333	0,0868	0,679	0,081	0,24	25,31	435
500 MCM	0,0233	0,0546	0,679	0,078	0,28	36,18	536

(1) Ampacity – 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 3/C (SIZE) TYPE SHD-GC FT1 FT5 (-40C) +90C P-07-KA060012-2-MSHA

Special factory option

Jacket:	Other colors available
Jacket:	TPU jacket available
MSHA:	P-07-KA120001 (TPU) (for sizes 6AWG-500MCM)

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SHD-GC

2kV

CSA C22.2 No.96-17

Round portable power cable Mining grade

APPLICATIONS

Use on AC off track equipment such as long wall miners loaders, drills, shovels, conveyors, pumps and mobile equipment requiring grounding conductors and a ground check conductor and metallic shielding overall. Other industrial, mining applications

CONSTRUCTION

Conductors	Soft drawn flexible stranded tinned copper wires
Separator	Polyester tape
Insulation	Ethylene-propylene rubber (EPR)
Insulation shield	None-conducting bedding tape + composite tinned copper/ polyamide braid. Covering minimum 60%.
Circuit identification	The polyamide in the shielding braid is coloured black, blue, red
Grounding	Soft drawn flexible stranded tinned copper wires
Ground check	Yellow PP insulated soft drawn flexible stranded tinned copper wires
Assembly	Three power, ground check and two non-insulated grounding conductors cabled together to form a round cable core
Separator	Polyamide open braid applied overall
Outer jacket	Extra heavy duty, high torsion resistant, integral-filled, reinforced poly-chloroprene (CR) thermosetting jacket
Colour of outer jacket	Black
Minimum bending radius	Eight times overall diameter of the cable

Features

Excellent flexibility. Highly ozone, sun, weather and flame resistant. Rated and flexible at -40°C. Excellent impact and abrasion resistant. Oil and heat resistant. Indent printed for easy identification.

Approvals

CSA: 1523058 (LR 103932), FT 1, FT-5. **MSHA:** P-07-KA060012-2

Selection Data

Part Number	Cond. Size	Cond. Strand	Cond. Size		Nominal Insulation Thickness		Nominal Jacket Thickness		Outside Diameter		Approx. Weight		Max. Tensile Force
			GRD	GC									
	AWG/ MCM	**No. of wires**	**AWG**		**Inches**	**mm**	**Inches**	**mm**	**Inches**	**mm**	**Lbs./ 1000ft.**	**kg/km**	**N**
SHDGC2KV14-3CSA	14	49	14	14	0.070	1.78	0.125	3.18	0.91	23.0	489	727	94
SHDGC2KV12-3CSA	12	49	12	14	0.070	1.78	0.125	3.18	0.91	23.0	515	767	148
SHDGC2KV10-3CSA	10	49	12	12	0.070	1.78	0.125	3.18	0.97	24.6	594	884	238
SHDGC2KV8-3CSA	8	133	10	10	0.070	1.78	0.140	3.56	1.05	26.6	746	1110	380
SHDGC2KV6-3CSA	6	133	10	10	0.070	1.78	0.155	3.94	1.22	31.0	1011	1504	600
SHDGC2KV4-3CSA	4	259	9	10	0.070	1.78	0.155	3.94	1.34	34.1	1296	1928	950
SHDGC2KV2-3CSA	2	259	7	8	0.070	2.03	0.170	4.32	1.52	38.5	1804	2684	1500
SHDGC2KV1-3CSA	1	259	6	8	0.080	2.03	0.190	4.83	1.67	42.4	2151	3201	1900
SHDGC2KV1/0-3CSA	1/0	266	5	8	0.080	2.03	0.190	4.83	1.78	45.2	2595	3862	2400
SHDGC2KV2/0-3CSA	2/0	342	4	8	0.080	2.03	0.205	5.21	1.89	48.1	3019	4492	3000
SHDGC2KV3/0-3CSA	3/0	418	3	8	0.080	2.03	0.205	5.21	2.05	52.0	3600	5357	3800
SHDGC2KV4/0-3CSA	4/0	532	2	8	0.080	2.03	0.220	5.59	2.19	55.7	4312	6416	4800
SHDGC2KV250-3CSA	250	627	1	8	0.095	2.41	0.220	5.59	2.38	60.5	5002	7443	5800
SHDGC2KV350-3CSA	350	888	1/0	8	0.095	2.41	0.235	5.97	2.68	68.1	6598	9819	7900
SHDGC2KV500-3CSA	500	1221	3/0	8	0.095	2.41	0.265	6.73	3.05	77.5	8958	13330	11400

Electrical 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 (1s) (2)	Ampacity(1) 40°C Ambient Temp
AWG or MCM	**Ω/1000Ft**	**Ω/1000Ft**	**Ω/1000Ft**	**mH/1000Ft**	**µF/1000Ft**	**kA**	**A**
6 AWG	0,436	1,08	1,08	0,118	0,09	1,90	93
4 AWG	0,274	0,857	1,08	0,107	0,11	3,03	122
2 AWG	0,172	0,539	0,679	0,101	0,13	4,80	159
1 AWG	0,137	0,436	0,679	0,100	0,13	6,06	184

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 (1s) (2)	Ampacity(1) 40°C Ambient Temp
AWG or MCM	**Ω/1000Ft**	**Ω/1000Ft**	**Ω/1000Ft**	**mH/1000Ft**	**μF/1000Ft**	**kA**	**A**
1/0 AWG	0,109	0,346	0,679	0,097	0,14	7,65	211
2/0 AWG	0,0868	0,274	0,679	0,092	0,16	9,64	243
4/0 AWG	0,0546	0,172	0,679	0,088	0,19	15,30	321

(1) Ampacity –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 3/C (SIZE) TYPE SHD-GC CSA LR 103932 FT1FT5 (-40C) +90C P-07-KA060012-2-MSHA

Special factory option

Jacket:	Other colors available
Jacket:	TPU jacket available

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SHD-GC

5kV

ICEA S-75-381/NEMA WC-58

Round portable power cable Mining grade

APPLICATIONS

Use on AC off track equipment such as long wall miners loaders, drills, shovels, conveyors, pumps and mobile equipment requiring grounding conductors and a ground check conductor and metallic shielding overall. Other industrial, mining applications

CONSTRUCTION

Conductors	Soft drawn flexible stranded tinned copper wires
Conductor shield	Semi-conducting layer over the conductor
Insulation	Ethylene-propylene rubber (EPR)
Insulation shield	None-conducting bedding tape + composite tinned copper/ polyamide braid. Covering minimum 60%.
Circuit identification	The polyamide in the shielding braid is coloured black, white, red
Grounding	Soft drawn flexible stranded tinned copper wires
Ground check	Yellow PP insulated soft drawn flexible stranded tinned copper wires
Assembly	Three power, ground check and two non-insulated grounding conductors cabled together to form a round cable core
Separator	A single faced rubber filled binder tape applied over core
Outer jacket	Extra heavy duty, high torsion resistant, integral-filled, reinforced poly-chloroprene (CR) thermosetting jacket
Colour of outer jacket	Black
Minimum bending radius	Eight times overall diameter of the cable

Features

Excellent flexibility. Highly ozone, sun, weather and flame resistant. Rated and flexible at -40°C. Excellent impact and abrasion resistant. Oil and heat resistant. Indent printed for easy identification.

Approvals

MSHA: P-07-KA060012-2

Selection Data

	Cond. Size	Cond. Strand	Cond. Size		Nominal Insulation Thickness		Nominal Jacket Thickness		Outside Diameter		Approx. Weight		Max. Tensile Force
			GRD	GC									
	AWG/ MCM	**No. of wires**	**AWG**		**Inches**	**mm**	**Inches**	**mm**	**Inches**	**mm**	**Lbs./ 1000ft.**	**kg/km**	**N**
SHDGC5KV6-3	6	133	10	8	0.110	2.79	0.185	4.70	1.51	38.3	1383	2058	600
SHDGC5KV4-3	4	259	8	8	0.110	2.79	0.185	4.70	1.62	41.2	1733	2579	950
SHDGC5KV2-3	2	259	6	8	0.110	2.79	0.205	5.21	1.81	45.9	2271	3379	1500
SHDGC5KV1-3	1	259	5	8	0.110	2.79	0.205	5.21	1.88	47.8	2536	3774	1900
SHDGC5KV1/0-3	1/0	266	4	8	0.110	2.79	0.220	5.59	2.00	50.7	2974	4425	2400
SHDGC5KV2/0-3	2/0	342	3	8	0.110	2.79	0.220	5.59	2.12	53.9	3504	5215	3000
SHDGC5KV3/0-3	3/0	418	2	8	0.110	2.79	0.235	5.97	2.27	57.6	4117	6127	3800
SHDGC5KV4/0-3	4/0	532	1	8	0.110	2.79	0.235	5.97	2.40	61.0	4844	7209	4800
SHDGC5KV250-3	250	627	1/0	8	0.120	3.05	0.250	6.35	2.59	65.7	5602	8336	5800
SHDGC5KV350-3	350	888	2/0	8	0.120	3.05	0.265	6.73	2.83	71.9	7152	10643	7900
SHDGC5KV500-3	500	1221	4/0	8	0.120	3.05	0.280	7.11	3.18	80.7	9508	14149	11400

** Based on ICEA S-75-381 NEMA WC 58*

Electrical 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 (1s) (2)	Ampacity(1) 40°C Ambient Temp
AWG or MCM	**Ω/1000Ft**	**Ω/1000Ft**	**Ω/1000Ft**	**mH/1000Ft**	**μF/1000Ft**	**kA**	**A**
6 AWG	0,436	1,08	0,679	0,132	0,08	1,90	93
4 AWG	0,274	0,679	0,679	0,119	0,09	3,03	122
2 AWG	0,172	0,436	0,679	0,112	0,10	4,80	159
1 AWG	0,137	0,346	0,679	0,108	0,11	6,06	184
1/0 AWG	0,109	0,274	0,679	0,105	0,12	7,65	211
2/0 AWG	0,0868	0,217	0,679	0,099	0,14	9,64	243
3/0 AWG	0,0688	0,172	0,679	0,098	0,14	12,15	279
4/0 AWG	0,0546	0,137	0,679	0,094	0,16	15,30	321

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 (1s) (2)	Ampacity(1) 40°C Ambient Temp
AWG or MCM	**Ω/1000Ft**	**Ω/1000Ft**	**Ω/1000Ft**	**mH/1000Ft**	**μF/1000Ft**	**kA**	**A**
250 MCM	0,0466	0,109	0,679	0,089	0,18	18,16	355
350 MCM	0,0333	0,0868	0,679	0,085	0,21	25,31	435
500 MCM	0,0233	0,0546	0,679	0,082	0,24	36,18	536

(1) Ampacity –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 5000V 3/C (SIZE) TYPE SHD-GC FT1 FT5 (-40C) +90C P-07-KA060012-2-MSHA

Special factory option

Jacket:	Other colors available
Jacket:	TPU jacket available
MSHA:	P-07-KA120001 (TPU)

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SHD-GC

5kV

CSA C22.2 No.96-17

Round portable power cable Mining grade

APPLICATIONS

Use on AC off track equipment such as long wall miners loaders, drills, shovels, conveyors, pumps and mobile equipment requiring grounding conductors and a ground check conductor and metallic shielding overall. Other industrial, mining applications

CONSTRUCTION

Conductors	Soft drawn flexible stranded tinned copper wires
Conductor shield	Semi-conducting layer over the conductor
Insulation	Ethylene-propylene rubber (EPR)
Insulation shield	None-conducting bedding tape + composite tinned copper/ polyamide braid. Covering minimum 60%.
Circuit identification	The polyamide in the shielding braid is coloured black, blue, red
Grounding	Soft drawn flexible stranded tinned copper wires
Ground check	Yellow PP insulated soft drawn flexible stranded tinned copper wires
Assembly	Three power, ground check and two non-insulated grounding conductors cabled together to form a round cable core
Separator	A single faced rubber filled binder tape applied over core
Outer jacket	Extra heavy duty, high torsion resistant, integral-filled, reinforced poly-chloroprene (CR) thermosetting jacket
Colour of outer jacket	Black
Minimum bending radius	Eight times overall diameter of the cable

Features

Excellent flexibility. Highly ozone, sun, weather and flame resistant. Rated and flexible at -40°C. Excellent impact and abrasion resistant. Oil and heat resistant. Indent printed for easy identification.

Approvals

CSA: 1523058 (LR 103932), FT 1, FT-5. **MSHA:** P-07-KA060012-2

Selection Data

Part Number	Cond. Size	Cond. Strand	Cond. Size		Nominal Insulation Thickness		Nominal Jacket Thickness		Outside Diameter		Approx. Weight		Max. Tensile Force
			GRD	GC									
	AWG/ MCM	**No. of wires**	**AWG**		**Inches**	**mm**	**Inches**	**mm**	**Inches**	**mm**	**Lbs./ 1000ft.**	**kg/km**	**N**
SHDGC5KV6-3 CSA	6	133	10	8	0.110	2.79	0.185	4.70	1.86	47.2	2099	3123	600
SHDGC5KV4-3 CSA	4	259	9	8	0.110	2.79	0.185	4.70	1.86	47.2	2099	3123	950
SHDGC5KV2-3 CSA	2	259	7	8	0.110	2.79	0.205	5.21	2.00	50.9	2603	3874	1500
SHDGC5KV1-3 CSA	1	259	6	8	0.110	2.79	0.205	5.21	2.12	53.9	2967	4415	1900
SHDGC5KV1/0-3 CSA	1/0	266	5	8	0.110	2.79	0.220	5.59	2.19	55.7	3316	4934	2400
SHDGC5KV2/0-3 CSA	2/0	342	4	8	0.110	2.79	0.220	5.59	2.35	59.8	3958	5890	3000
SHDGC5KV3/0-3 CSA	3/0	418	3	8	0.110	2.79	0.235	5.97	2.49	63.2	4541	6757	3800
SHDGC5KV4/0-3 CSA	4/0	532	2	8	0.110	2.79	0.235	5.97	2.61	66.4	5270	7843	4800
SHDGC5KV250-3 CSA	250	627	1	8	0.120	3.05	0.250	6.35	2.78	70.5	6096	9071	5800
SHDGC5KV350-3 CSA	350	888	1/0	8	0.120	3.05	0.265	6.73	3.06	77.8	7801	11609	7900
SHDGC5KV500-3 CSA	500	1221	3/0	8	0.120	3.05	0.280	7.11	3.39	86.2	9940	14792	11400

Electrical 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 (1s) (2)	Ampacity(1) 40°C Ambient Temp
AWG or MCM	**Ω/1000Ft**	**Ω/1000Ft**	**Ω/1000Ft**	**mH/1000Ft**	**μF/1000Ft**	**kA**	**A**
6 AWG	0,436	0,857	0,679	0,132	0,08	1,90	93
4 AWG	0,274	0,857	0,679	0,119	0,09	3,03	122
2 AWG	0,172	0,539	0,679	0,112	0,10	4,80	159
1 AWG	0,137	0,436	0,679	0,108	0,11	6,06	184
1/0 AWG	0,109	0,346	0,679	0,105	0,12	7,65	211
2/0 AWG	0,0868	0,274	0,679	0,099	0,14	9,64	243
3/0 AWG	0,0688	0,217	0,679	0,098	0,14	12,15	279
4/0 AWG	0,0546	0,172	0,679	0,094	0,16	15,30	321
250 MCM	0,0466	0,137	0,679	0,089	0,18	18,16	355
350 MCM	0,0333	0,109	0,679	0,085	0,21	25,31	435
500 MCM	0,0233	0,0688	0,679	0,082	0,24	36,18	536

(1) Ampacity –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 5000V 3/C (SIZE) TYPE SHD-GC CSA LR 103932 100% FT1 FT5 (-40C) +90C P-07-KA060012-2-MSHA

Special factory option

Jacket:	Other colors available
Jacket:	TPU jacket available

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SHD-GC

8kV

ICEA S-75-381/NEMA WC-58

Round portable power cable Mining grade

APPLICATIONS

Use on AC off track equipment such as long wall miners loaders, drills, shovels, conveyors, pumps and mobile equipment requiring grounding conductors and a ground check conductor and metallic shielding overall. Other industrial, mining applications

CONSTRUCTION

Conductors	Soft drawn flexible stranded tinned copper wires
Conductor shield	Semi-conducting layer over the conductor
Insulation	Ethylene-propylene rubber (EPR)
Insulation shield	Semi-conducting tape + composite tinned copper/polyamide braid. Covering minimum 60%.
Circuit identification	The polyamide in the shielding braid is coloured black, white, red
Grounding	Soft drawn flexible stranded tinned copper wires
Ground check	Yellow PP insulated soft drawn flexible stranded tinned copper wires
Assembly	Three power, ground check and two non-insulated grounding conductors cabled together to form a round cable core
Separator	A single faced rubber filled binder tape applied over core
Outer jacket	Extra heavy duty, high torsion resistant, integral-filled, reinforced poly-chloroprene (CR) thermosetting jacket
Colour of outer jacket	Black
Minimum bending radius	Eight times overall diameter of the cable

Features

Excellent flexibility. Highly ozone, sun, weather and flame resistant. Rated and flexible at -40°C. Excellent impact and abrasion resistant. Oil and heat resistant. Indent printed for easy identification

Approvals

MSHA: P-07-KA060012-2

Selection Data

Part Number	Cond. Size	Cond. Strand	Cond. Size		Nominal Insulation Thickness		Nominal Jacket Thickness		Outside Diameter		Approx. Weight		Max. Tensile Force
			GRD	GC									
	AWG/ MCM	**No. of wires**	**AWG**		**Inches**	**mm**	**Inches**	**mm**	**Inches**	**mm**	**Lbs./ 1000ft.**	**kg/km**	**N**
SHDGC8KV1/0-3	1/0	266	4	8	0.150	3.81	0.220	5.59	2.23	56.7	3450	5134	2400
SHDGC8KV2/0-3	2/0	342	3	8	0.150	3.81	0.235	5.97	2.37	60.2	4045	6020	3000
SHDGC8KV4/0-3	4/0	532	1	8	0.150	3.81	0.250	6.35	2.63	66.9	5413	8055	4800
SHDGC8KV250-3	250(1)	627	1/0	8	0.150	3.81	0.250	6.35	2.78	70.5	6096	9071	5800
SHDGC8KV350-3	350(1)	888	2/0	8	0.150	3.81	0.280	7.11	3.06	77.8	7801	11609	7900
SHDGC8KV500-3	500(1)	1221	4/0	8	0.150	3.81	0.295	7.49	3.41	86.6	10237	15234	11400

** Based on ICEA S-75-381 NEMA WC 58*

Electrical 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 (1s) (2)	Ampacity(1) 40°C Ambient Temp
AWG or MCM	**Ω/1000Ft**	**Ω/1000Ft**	**Ω/1000Ft**	**mH/1000Ft**	**μF/1000Ft**	**kA**	**A**
1/0 AWG	0,109	0,274	0,679	0,105	0,12	7,65	211
2/0 AWG	0,0868	0,217	0,679	0,099	0,14	9,64	243
4/0 AWG	0,0546	0,137	0,679	0,094	0,16	15,30	321
250 MCM	0,0466	0,109	0,679	0,089	0,18	18,16	355
350 MCM	0,0333	0,0868	0,679	0,085	0,21	25,31	435
500 MCM	0,0233	0,0546	0,679	0,082	0,24	36,18	536

(1) Ampacity –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 3/C (SIZE) TYPE SHD-GC FT1 FT5 (-40C) +90C P-07-KA060012-2-MSHA

Special factory option

Jacket:	Other colors available
Jacket:	TPU jacket available
MSHA:	P-07-KA120001 (TPU)

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SHD-GC

8kV

CSA C22.2 No.96-17

Round portable power cable Mining grade

APPLICATIONS

Use on AC off track equipment such as long wall miners loaders, drills, shovels, conveyors, pumps and mobile. equipment requiring grounding conductors and a ground check conductor and metallic shielding overall. Other industrial, mining applications

CONSTRUCTION

Conductors	Soft drawn flexible stranded tinned copper wires
Conductor shield	Semi-conducting layer over the conductor
Insulation	Ethylene-propylene rubber (EPR)
Insulation shield	Semi-conducting tape + composite tinned copper/polyamide braid. Covering minimum 60%.
Circuit identification	The polyamide in the shielding braid is coloured black, blue, red
Grounding	Soft drawn flexible stranded tinned copper wires
Ground check	Yellow PP insulated soft drawn flexible stranded tinned copper wires
Assembly	Three power, ground check and two non-insulated grounding conductors cabled together to form a round cable core
Separator	A single faced rubber filled binder tape applied over core
Outer jacket	Extra heavy duty, high torsion resistant, integral-filled, reinforced poly-chloroprene (CR) thermosetting jacket
Colour of outer jacket	Black
Minimum bending radius	Eight times overall diameter of the cable

Features

Excellent flexibility. Highly ozone, sun, weather and flame resistant. Rated and flexible at -40°C. Excellent impact and abrasion resistant. Oil and heat resistant. Indent printed for easy identification.

Approvals

CSA: 1523058 (LR 103932), FT 1, FT-5, **MSHA:** P-07-KA060012-2

Selection Data

Part Number	Cond. Size	Cond. Strand	Cond. Size		Nominal Insulation Thickness		Nominal Jacket Thickness		Outside Diameter		Approx. Weight		Max. Tensile Force
			GRD	GC									
	AWG/ MCM	**No. of wires**	**AWG**		**Inches**	**mm**	**Inches**	**mm**	**Inches**	**mm**	**Lbs./ 1000ft.**	**kg/km**	**N**
SHDGC8KV4-3CSA	4	259 7x37	9	8	0.150	3.81	0.205	5.21	1.86	47.2	2099	3123	950
SHDGC8KV2-3CSA	2	259 7x37	7	8	0.150	3.81	0.220	5.59	2.00	50.9	2603	3874	1500
SHDGC8KV1-3CSA	1	259 7x37	6	8	0.150	3.81	0.220	5.59	2.12	53.9	2967	4415	1900
SHDGC8KV1/0-3CSA	1/0	266 19x14	5	8	0.150	3.81	0.220	5.59	2.19	55.7	3316	4934	2400
SHDGC8KV2/0-3CSA	2/0	342 19x18	4	8	0.150	3.81	0.235	5.97	2.35	59.8	3958	5890	3000
SHDGC8KV3/0-3CSA	3/0	418 19x22	3	8	0.150	3.81	0.250	6.35	2.49	63.2	4541	6757	3800
SHDGC8KV4/0-3CSA	4/0	532 19x18	2	8	0.150	3.81	0.250	6.35	2.61	66.4	5270	7843	4800
SHDGC8KV250-3CSA	250	627 19x33	1	8	0.150	3.81	0.250	6.35	2.78	70.5	6096	9071	5800
SHDGC8KV350-3CSA	350	888 37x24	1/0	8	0.150	3.81	0.280	7.11	3.06	77.8	7801	11609	7900
SHDGC8KV500-3CSA	500	1221 37x33	3/0	8	0.150	3.81	0.295	7.49	3.39	86.2	9940	14792	11400

Electrical 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 (1s) (2)	Ampacity(1) 40°C Ambient Temp
AWG or MCM	**Ω/1000Ft**	**Ω/1000Ft**	**Ω/1000Ft**	**mH/1000Ft**	**μF/1000Ft**	**kA**	**A**
4 AWG	0,274	0,857	0,679	0,119	0,09	3,03	122
2 AWG	0,172	0,539	0,679	0,112	0,10	4,80	159
1 AWG	0,137	0,436	0,679	0,108	0,11	6,06	184
1/0 AWG	0,109	0,346	0,679	0,105	0,12	7,65	211
2/0 AWG	0,0868	0,274	0,679	0,099	0,14	9,64	243
3/0 AWG	0,0688	0,217	0,679	0,098	0,14	12,15	279
4/0 AWG	0,0546	0,172	0,679	0,094	0,16	15,30	321
250 MCM	0,0466	0,137	0,679	0,089	0,18	18,16	355
350 MCM	0,0333	0,109	0,679	0,085	0,21	25,31	435
500 MCM	0,0233	0,0688	0,679	0,082	0,24	36,18	536

(1) Ampacity –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 3/C (SIZE) TYPE SHD-GC CSA LR 103932 100% FT1 FT5 (-40C) +90C P-07-KA060012-2-MSHA

Special factory option

Jacket:	Other colors available
Jacket:	TPU jacket available

SHD-GC

15kV

ICEA S-75-381/NEMA WC-58

Round portable power cable Mining grade

APPLICATIONS

Use on AC off track equipment such as long wall miners loaders, drills, shovels, conveyors, pumps and mobile equipment requiring grounding conductors and a ground check conductor and metallic shielding overall. Other industrial, mining applications

CONSTRUCTION

Conductors	Soft drawn flexible stranded tinned copper wires
Conductor shield	Semi-conducting layer over the conductor
Insulation	Ethylene-propylene rubber (EPR)
Insulation shield	Semi-conducting tape + composite tinned copper/polyamide braid. Covering minimum 60%.
Circuit identification	The polyamide in the shielding braid is coloured black, white, red
Grounding	Soft drawn flexible stranded tinned copper wires
Ground check	Yellow PP insulated soft drawn flexible stranded tinned copper wires
Assembly	Three power, ground check and two non-insulated grounding conductors cabled together to form a round cable core
Separator	A single faced rubber filled binder tape applied over core
Outer jacket	Extra heavy duty, high torsion resistant, integral-filled, reinforced poly-chloroprene (CR) thermosetting jacket
Colour of outer jacket	Black
Minimum bending radius	Eight times overall diameter of the cable

Features

Excellent flexibility. Highly ozone, sun, weather and flame resistant. Rated and flexible at -40°C. Excellent impact and abrasion resistant. Oil and heat resistant. Indent printed for easy identification.

Approvals

MSHA: P-07-KA060012-2

Selection Data

Part Number	Cond. Size	Cond. Strand	Cond. Size		Nominal Insulation Thickness		Nominal Jacket Thickness		Outside Diameter		Approx. Weight		Max. Tensile Force
			GRD	GC									
	AWG/ MCM	**No. of wires**	**AWG**		**Inches**	**mm**	**Inches**	**mm**	**Inches**	**mm**	**Lbs./ 1000ft.**	**kg/ km**	**N**
SHDGC15KV2-3	2	259	6	8	0.210	5.33	0.235	5.97	2.31	58.8	3264	4857	1500
SHDGC15KV1-3	1	259	5	8	0.210	5.33	0.235	5.97	2.42	61.4	3644	5423	1900
SHDGC15KV1/0-3	1/0	266	4	8	0.210	5.33	0.250	6.35	2.53	64.3	4110	6116	2400
SHDGC15KV2/0-3	2/0	342	3	8	0.210	5.33	0.250	6.35	2.62	66.5	4625	6883	3000
SHDGC15KV3/0-3	3/0	418	2	8	0.210	5.33	0.265	6.73	2.78	70.6	5332	7935	3800
SHDGC15KV4/0-3	4/0	532	1	8	0.210	5.33	0.265	6.73	2.92	74.2	6141	9138	4800
SHDGC15KV250-3	250*	627	1/0	8	0.210	5.33	0.265	6.73	2.97	75.5	7082	10539	5800
SHDGC15KV350-3	350*	888	2/0	8	0.210	5.33	0.280	7.11	3.26	82.7	8364	12447	7900

** Based on ICEA S-75-381 NEMA WC 58*

Electrical 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 (1s) (2)	Ampacity(1) 40°C Ambient Temp
AWG or MCM	**Ω/1000Ft**	**Ω/1000Ft**	**Ω/1000Ft**	**mH/1000Ft**	**μF/1000Ft**	**kA**	**A**
2 AWG	0,172	0,436	0,679	0,131	0,07	4,80	164
1 AWG	0,137	0,346	0,679	0,126	0,07	6,06	187
1/0 AWG	0,109	0,274	0,679	0,122	0,08	7,65	215
2/0 AWG	0,0868	0,217	0,679	0,115	0,09	9,64	246
3/0 AWG	0,0688	0,172	0,679	0,114	0,09	12,15	283
4/0 AWG	0,0546	0,137	0,679	0,109	0,10	15,30	325
250 MCM	0,0466	0,109	0,679	0,101	0,12	18,16	359
350 MCM	0,0333	0,0868	0,679	0,096	0,13	25,31	438

(1) Ampacity –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 15000V 3/C (SIZE) TYPE SHD-GC FT1 FT5 (-40C) +90C P-07-KA060012-2-MSHA

Special factory option

Jacket:	Other colors available
Jacket:	TPU jacket available
MSHA:	P-07-KA120001 (TPU)

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SHD-GC

15kV

CSA C22.2 No.96-17

Round portable power cable Mining grade

APPLICATIONS

Use on AC off track equipment such as long wall miners loaders, drills, shovels, conveyors, pumps and mobile equipment requiring grounding conductors and a ground check conductor and metallic shielding overall. Other industrial, mining applications

CONSTRUCTION

Conductors	Soft drawn flexible stranded tinned copper wires
Conductor shield	Semi-conducting layer over the conductor
Insulation	Ethylene-propylene rubber (EPR)
Insulation shield	Semi-conducting tape + composite tinned copper/polyamide braid. Covering minimum 60%.
Circuit identification	The polyamide in the shielding braid is coloured black, blue, red
Grounding	Soft drawn flexible stranded tinned copper wires
Ground check	Yellow PP insulated soft drawn flexible stranded tinned copper wires
Assembly	Three power, ground check and two non-insulated grounding conductors cabled together to form a round cable core
Separator	A single faced rubber filled binder tape applied over core
Outer jacket	Extra heavy duty, high torsion resistant, integral-filled, reinforced poly-chloroprene (CR) thermosetting jacket
Colour of outer jacket	Black
Minimum bending radius	Eight times overall diameter of the cable

Features

Excellent flexibility. Highly ozone, sun, weather and flame resistant. Rated and flexible at -40°C. Excellent impact and abrasion resistant. Oil and heat resistant. Indent printed for easy identification.

Approvals

CSA: 1523058 (LR 103932), FT 1, FT-5, **MSHA:** P-07-KA060012-2

Selection Data

Part Number	Cond. Size	Cond. Strand	Cond. Size		Nominal Insulation Thickness		Nominal Jacket Thickness		Outside Diameter		Approx. Weight		Max. Tensile Force
			GRD	GC									
	AWG/ MCM	**No. of wires**	**AWG**		**Inches**	**mm**	**Inches**	**mm**	**Inches**	**mm**	**Lbs./ 1000ft.**	**kg/km**	**N**
SHDGC15KV2-3CSA	2	259	7	8	0.210	5.33	0.235	5.97	2.31	58.6	3220	4792	1500
SHDGC15KV1-3CSA	1	259	6	8	0.210	5.33	0.235	5.97	2.42	61.4	3910	5818	1900
SHDGC15KV1/0-3CSA	1/0	266	5	8	0.210	5.33	0.250	6.35	2.54	64.5	4075	6064	2400
SHDGC15KV2/0-3CSA	2/0	342	4	8	0.210	5.33	0.250	6.35	2.61	66.3	4551	6772	3000
SHDGC15KV3/0-3CSA	3/0	418	3	8	0.210	5.33	0.265	6.73	2.76	70.0	5299	7885	3800
SHDGC15KV4/0-3CSA	4/0	532	2	8	0.210	5.33	0.265	6.73	2.91	73.8	6019	8957	4800
SHDGC15KV250-3CSA	250	627	1	8	0.210	5.33	0.265	6.73	3.07	78.1	6820	10149	5800
SHDGC15KV350-3CSA	350	888	1/0	8	0.210	5.33	0.280	7.11	3.29	83.5	8299	12349	7900

Electrical 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 (1s) (2)	Ampacity(1) 40°C Ambient Temp
AWG or MCM	**Ω/1000Ft**	**Ω/1000Ft**	**Ω/1000Ft**	**mH/1000Ft**	**μF/1000Ft**	**kA**	**A**
2 AWG	0,172	0,539	0,679	0,131	0,07	4,80	164
1 AWG	0,137	0,436	0,679	0,126	0,07	6,06	187
1/0 AWG	0,109	0,346	0,679	0,122	0,08	7,65	215
2/0 AWG	0,0868	0,274	0,679	0,115	0,09	9,64	246
3/0 AWG	0,0688	0,217	0,679	0,114	0,09	12,15	283
4/0 AWG	0,0546	0,172	0,679	0,109	0,10	15,30	325
250 MCM	0,0466	0,137	0,679	0,101	0,12	18,16	359
350 MCM	0,0333	0,109	0,679	0,096	0,13	25,31	438

(1) Ampacity –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 15000V 3/C (SIZE) TYPE SHD-GC CSA LR 103932 100% FT1 FT5 (-40C) +90C P-07-KA060012-2-MSHA

Special factory option

Jacket:	Other colors available
Jacket:	TPU jacket available

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SHD-GC

25kV

ICEA S-75-381/NEMA WC-58

Round portable power cable Mining grade

APPLICATIONS

Use on AC off track equipment such as long wall miners loaders, drills, shovels, conveyors, pumps and mobile equipment requiring grounding conductors and a ground check conductor and metallic shielding overall. Other industrial, mining applications.

CONSTRUCTION

Conductors	Soft drawn flexible stranded tinned copper wires
Conductor shield	Semi-conducting layer over the conductor
Insulation	Ethylene-propylene rubber (EPR)
Insulation shield	Semi-conducting tape + composite tinned copper/polyamide braid. Covering minimum 60%.
Circuit identification	The polyamide in the shielding braid is coloured black, white, red
Grounding	Soft drawn flexible stranded tinned copper wires
Ground check	Yellow PP insulated soft drawn flexible stranded tinned copper wires
Assembly	Three power, ground check and two non-insulated grounding conductors cabled together to form a round cable core
Separator	A single faced rubber filled binder tape applied over core
Outer jacket	Extra heavy duty, high torsion resistant, integral-filled, reinforced poly-chloroprene (CR) thermosetting jacket
Colour of outer jacket	Black
Minimum bending radius	Eight times overall diameter of the cable

Features

Excellent flexibility, Highly ozone, sun, weather and flame resistant, Rated and flexible at -40°C, Excellent impact and abrasion resistant , Oil and heat resistant, Indent printed for easy identification

Approvals

MSHA: P-07-KA060012-2 (for sizes 1AWG-500MCM)

Standard length cable packing	1000ft on drums. Other forms of packing and delivery are available on request

Selection Data

Sap Code	Cond. Size	Cond. Strand	Cond. Size		Nominal Insulation Thickness		Nominal Jacket Thickness		Approx. O.D.		Approx. Weight		Maximum Tensile Force
			GRD	GC									
	AWG /MCM		**AWG**		**Inches**	**mm**	**Inches**	**mm**	**Inches**	**mm**	**Lbs. /1000ft.**	**kg/km**	**N**
G-026568	2*	259 7x37	6	8	0.295	7.49	0.235	5.97	2.59	65.7	3898	5800	1500
	1	259 7x37	5	8	0.295	7.49	0.265	6.73	2.83	71.8	4623	6879	1900
	1/0	266 19x14	4	8	0.295	7.49	0.265	6.73	2.92	74.2	5096	7583	2400
G-030943	2/0	342 19x18	3	8	0.295	7.49	0.280	7.11	3.06	77.8	5800	8631	3000
G-131808	3/0	418 19x22	2	8	0.295	7.49	0.280	7.11	3.19	80.9	6444	9590	3800
	4/0	532 19x18	1	8	0.295	7.49	0.295	7.49	3.35	85.1	7386	10991	4800
G-030058	250	627 19x33	1/0	8	0.295	7.49	0.295	7.49	3.43	87.2	7940	11815	5800
G-027995	350	888 37x24	2/0	8	0.295	7.49	0.295	7.49	3.65	92.8	9624	14321	7900

** Based on ICEA S-75-381 NEMA WC 58*

Electrical 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 (1s) (2)	Ampacity(1) 40°C Ambient Temp
MCM	**Ω/1000Ft**	**Ω/1000Ft**	**Ω/1000Ft**	**mH/1000Ft**	**μF/1000Ft**	**kA**	**A**
2 AWG	0,172	0,436	0,679	0,142	0,05	4,80	168
1 AWG	0,137	0,346	0,679	0,137	0,06	6,06	191
1/0 AWG	0,109	0,274	0,679	0,132	0,06	7,65	218
2/0 AWG	0,0868	0,217	0,679	0,125	0,07	9,64	249
3/0 AWG	0,0688	0,172	0,679	0,124	0,07	12,15	286
4/0 AWG	0,0546	0,137	0,679	0,118	0,08	15,30	326
250 MCM	0,0466	0,109	0,679	0,115	0,08	18,10	360
350 MCM	0,0333	0,0868	0,679	0,107	0,10	25,31	439

(1) Ampacity – 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 (-40 0C) +90 0C P-07-KA060012-2-MSHA

Special factory option

Jacket:	Other colors available
Jacket:	TPU jacket available

SHD-GC

25kV

CSA C22.2 No. 96-17

Round portable power cable Mining grade

APPLICATIONS

Use on AC off track equipment such as long wall miners loaders, drills, shovels, conveyors, pumps and mobile equipment requiring grounding conductors and a ground check conductor and metallic shielding overall. Other industrial, mining applications

CONSTRUCTION

Conductors	Soft drawn flexible stranded tinned copper wires
Conductor shield	Semi-conducting layer over the conductor
Insulation	Ethylene-propylene rubber (EPR)
Insulation shield	Semi-conducting tape + composite tinned copper/polyamide braid. Covering minimum 60%.
Circuit identification	The polyamide in the shielding braid is coloured black, blue, red
Grounding	Soft drawn flexible stranded tinned copper wires
Ground check	Yellow PP insulated soft drawn flexible stranded tinned copper wires
Assembly	Three power, ground check and two non-insulated grounding conductors cabled together to form a round cable core
Separator	A single faced rubber filled binder tape applied over core
Outer jacket	Extra heavy duty, high torsion resistant, integral-filled, reinforced poly-chloroprene (CR) thermosetting jacket
Colour of outer jacket	Black
Minimum bending radius	Eight times overall diameter of the cable

Features

Excellent flexibility, Highly ozone, sun, weather and flame resistant, Rated and flexible at -40°C, Excellent impact and abrasion resistant , Oil and heat resistant, Indent printed for easy identification

Approvals

CSA: 1523058 (LR 103932) **MSHA:** P-07-KA060012-2 (for sizes 1AWG-500MCM)

Standard length cable packing	1000ft on drums. Other forms of packing and delivery are available on request

Selection Data

Sap Code	Cond. Size	Cond. Strand	Cond. Size		Nominal Insulation Thickness		Nominal Jacket Thickness		Approx. O.D.		Approx. Weight		Maximum Tensile Force
			GRD	GC									
	AWG /MCM		**AWG**		**Inches**	**mm**	**Inches**	**mm**	**Inches**	**mm**	**Lbs. /1000ft.**	**kg/km**	**N**
G-038867	1	259 7x37	6	8	0.295	7.49	0.265	6.73	2.82	71.7	4636	6899	1900
G-038956	1/0	266 19x14	5	8	0.295	7.49	0.265	6.73	2.90	73.7	4990	7426	2400
-	2/0	342 19x18	4	8	0.295	7.49	0.280	7.11	3.05	77.55	5808	8643	3000
G-040437	3/0	418 19x22	3	8	0.295	7.49	0.280	7.11	3.19	80.9	6297	9371	3800
G-023377	4/0	532 19x18	2	8	0.295	7.49	0.295	7.49	3.35	85.1	7272	10822	4800
-	250	627 19x33	1	8	0.295	7.49	0.295	7.49	3.42	86.8	7949	11829	5800
G-032731	350	888 37x24	1/0	8	0.295	7.49	0.295	7.49	3.66	93.0	9695	14427	7900

Electrical 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 (1s) (2)	Ampacity(1) 40°C Ambient Temp
MCM	**Ω/1000Ft**	**Ω/1000Ft**	**Ω/1000Ft**	**mH/1000Ft**	**μF/1000Ft**	**kA**	**A**
1 AWG	0,137	0,436	0,679	0,137	0,06	6,06	191
1/0 AWG	0,109	0,346	0,679	0,132	0,06	7,65	218
2/0 AWG	0,0868	0,274	0,679	0,125	0,07	9,64	249
3/0 AWG	0,0688	0,217	0,679	0,124	0,07	12,15	286
4/0 AWG	0,0546	0,172	0,679	0,118	0,08	15,30	326
250 MCM	0,0466	0,137	0,679	0,115	0,08	18,10	360
350 MCM	0,0333	0,109	0,679	0,107	0,10	25,31	439

(1) Ampacity –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 (-40 0C) +90 0C P-07-KA060012-2-MSHA

Special factory option

Jacket:	Other colors available
Jacket:	TPU jacket available

SH

5–35kV

ICEA S-75-381/NEMA WC-58

Single Conductor Medium Voltage Portable Power Cable

APPLICATIONS

These cables are designed for use on mobile substation equipment
Other industrial, mining applications

CONSTRUCTION

Conductors	Soft drawn flexible stranded tinned copper wires
Conductor shield	Semi-conducting tape+ layer over the conductor
Insulation	Ethylene-propylene rubber (EPR)
Insulation shield	Semi-conducting tape + composite tinned copper/ polyamide braid. Covering minimum 60%.
Separator	Reinforcing tape over insulation shield
Jacket	Heavy duty thermosetting poly-chloroprene (CR) jacket
Colour of jacket	Black or colours can be provided
Minimum bending radius	Eight times overall diameter of the cable

Features

Excellent flexibility, Highly ozone, sun, weather and flame resistant, Rated and flexible at –40°C, Excellent impact and abrasion resistant , Oil and heat resistant, Indent printed for easy identification

Standard length cable packing	1000ft on drums. Other forms of packing and delivery are available on request

	Cross-section-number of conductor	Stranding	Nominal Insulation thickness	Nominal Jacket thickness	Approx. Overall Diameter	Approx. Weight	Current-currying[1] Capacity at 40°C
	AWG or MCM	**mm**	**mm**	**mm**	**mm**	**kg/km**	**A**
Type SH 5 kV	2AWG-1	259x0,40	2,79	3,18	22,7	822	195
	1AWG-1	259x0,45	2,79	3,18	23,8	932	225
	1/0AWG-1	266x0,50	2,79	3,56	25,7	1111	260
	2/0AWG-1	342x0,49	2,79	3,56	26,5	1269	299
	3/0AWG-1	418x0,50	2,79	3,94	29,0	1525	345
	4/0AWG-1	532x0,50	2,79	3,94	30,4	1789	400
	250MCM-1	627x0,50	3,05	3,94	32,7	2051	444
	300MCM-1	740x0,50	3,05	4,32	35,1	2380	496
	350MCM-1	888x0,49	3,05	4,32	36,2	2679	549
	500MCM-1	1221x0,50	3,05	4,83	41,0	3554	688
Type SH 8 kV	2AWG-1	259x0,40	3,81	3,56	26,3	1015	195
	1AWG-1	259x0,45	3,81	3,56	27,5	1138	225
	1/0AWG-1	266x0,50	3,81	3,94	29,2	1320	260
	2/0AWG-1	342x0,49	3,81	3,94	30,4	1515	299
	3/0AWG-1	418x0,50	3,81	3,94	31,9	1712	345
	4/0AWG-1	532x0,50	3,81	3,94	33,6	2007	400
	250MCM-1	627x0,50	3,81	4,32	35,5	2250	444
	300MCM-1	740x0,50	3,81	4,32	37,2	2540	496
	350MCM-1	888x0,49	3,81	4,32	38,4	2855	549
	500MCM-1	1221x0,50	3,81	4,83	43,0	3727	688
Type SH 15 kV	2AWG-1	259x0,40	5,33	3,94	29,8	1220	195
	1AWG-1	259x0,45	5,33	3,94	30,9	1351	225
	1/0AWG-1	266x0,50	5,33	3,94	32,1	1511	259
	2/0AWG-1	342x0,49	5,33	3,94	33,3	1707	298
	3/0AWG-1	418x0,50	5,33	4,32	35,7	1991	343
	4/0AWG-1	532x0,50	5,33	4,32	37,2	2275	397
	250MCM-1	627x0,50	5,33	4,32	38,4	2478	440
	300MCM-1	740x0,50	5,33	4,32	40,1	2778	491
	350MCM-1	888x0,49	5,33	4,83	42,2	3181	543
	500MCM-1	1221x0,50	5,33	4,83	45,9	3999	678
	750MCM-1 [1]	1769x0,511	5,33	4,83	50,6	5312	678
Type SH 25 kV	4AWG-1[1]	259x0,32	7,49	3,94	31,9	1337	148
	2AWG-1[1]	259x0,40	7,49	4,32	34,2	1519	195
	1AWG-1	259x0,45	7,49	4,32	36,4	1746	222
	1/0AWG-1	266x0,50	7,49	4,32	37,6	1920	255
	2/0AWG-1	342x0,49	7,49	4,32	38,9	2136	293
	3/0AWG-1	418x0,50	7,49	4,32	40,1	2338	337
	4/0AWG-1	532x0,50	7,49	4,83	42,5	2724	389
	250MCM-1	627x0,50	7,49	4,83	43,7	2939	430
	300MCM-1	740x0,50	7,49	4,83	45,3	3245	480
	350MCM-1	888x0,49	7,49	4,83	46,6	3582	529
	500MCM-1	1221x0,50	7,49	5,21	51,1	4530	659
Type SH 35 kV	2AWG-1[1]	259x0,40	8,76	4,32	36,7	1708	195
	1AWG-1[1]	259x0,45	8,76	4,32	38	1867	222
	1/0AWG-1[1]	266x0,50	8,76	4,32	39,2	2035	255
	2/0AWG-1[1]	342x0,49	8,76	5,21	41,7	2375	293
	3/0AWG-1[1]	418x0,50	8,76	5,21	43,4	2629	337
	4/0AWG-1[1]	532x0,50	8,76	5,21	44,6	2911	389
	250MCM-1[1]	627x0,50	8,76	5,21	46,7	3221	430
	300MCM-1[1]	740x0,50	8,76	5,21	48,3	3537	480
	350MCM-1[1]	888x0,49	8,76	5,21	49,4	3865	529
	500MCM-1[1]	1221x0,50	8,76	5,21	53,2	4747	659

Based on standard

SJOOW

300 V

UL 62 and CAN/CSA-C 22.2 No 49

Portable cord and control cable, 90°C, Integral version

APPLICATIONS

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. Other industrial applications

CONSTRUCTION

Conductors	Flexible stranded bare copper in accordance with ASTM B-174 and UL 62
Insulation	EPR compound Class 19 of Tab. 8 of UL 62
Color code	ICEA S-58-679,Method 1, Tab.1 2/C Black, White 3/C Black, White, Green 4/C Black, White, Red, Green 5/C Black, White, Red, Green, Orange
Cabling	Insulated conductors are assembled round without filler. Integral filled jacket
Separator	Talc applied over the cable core for sizes 18AWG-10AWG
Outer jacket	CPE compound Class 1.12 90°C comply with Tab. 11 of UL 62
Color of outer jacket	Black. Other colors available on request

Features

Excellent flexibility, resistance to oil, solvents, ozone, weather, sunlight and water. Maximum temperature: +90°C. Flame test meets FT2, MSHA. Ink jet printed for easy identification.

Approvals

UL: E123366 (CPE), **CSA:** 1534535 (LL 103932)(CPE), **MSHA:** P-7K-254013 (CPE), FT2

Technical and Electrical Characteristic

Part Number	AWG size	No of conductor	Conductor strand	Nominal insulation thickness		Nominal jacket thickness		Nominal overall diameter		Weight	Ampacity at 30°C in air
				Inches	**mm**	**Inches**	**mm**	**Inches**	**mm**	**LBS/1000ft**	**A**
SJOOW18-2 IF	18	2	16/30	0,030	0,76	0,030	0,76	0,288	7,3	50	10
SJOOW18-3 IF		3	16/30	0,030	0,76	0,030	0,76	0,30	7,8	60	10
SJOOW18-4 IF		4	16/30	0,030	0,76	0,030	0,76	0,33	8,4	71	7
SJOOW16-2 IF	16	2	26/30	0,030	0,76	0,030	0,76	0,31	7,9	53	13
SJOOW16-3 IF		3	26/30	0,030	0,76	0,030	0,76	0,33	8,4	66	13
SJOOW16-4 IF		4	26/30	0,030	0,76	0,030	0,76	0,36	9,1	83	10
SJOOW14-2 IF	14	2	41/30	0,030	0,76	0,030	0,76	0,34	8,7	80	18
SJOOW14-3 IF		3	41/30	0,030	0,76	0,030	0,76	0,36	9,2	88	18
SJOOW14-4 IF		4	41/30	0,030	0,76	0,030	0,76	0,40	10,1	110	15
SJOOW12-2 IF	12	2	41/30	0,030	0,76	0,045	1,14	0,41	10,4	104	25
SJOOW12-3 IF		3	41/30	0,030	0,76	0,045	1,14	0,43	10,9	131	25
SJOOW12-4 IF		4	41/30	0,030	0,76	0,045	1,14	0,47	11,9	163	20
SJOOW10-2 IF	10	2	103/30	0,045	1,14	0,060	1,52	0,54	13,8	177	30
SJOOW10-3 IF		3	103/30	0,045	1,14	0,060	1,52	0,58	14,6	225	30
SJOOW10-4 IF		4	103/30	0,045	1,14	0,060	1,52	0,63	16,0	279	25

NOTE 1. Ampacity values shown are for current carrying conductors. A grounding conductor, or one which curries only the unbalance current.
NOTE 2. Correction factor for ambient temperature of 40 °C is 0,91.

Standard print legend:

Up to 4 cores
TF CABLE FLEXTREME (COND) (SIZE) (mm²) (UL) TYPE SJOOW E123366 90°C SUN&WATER RES 300V FT2 CSA TYPE SJOOW 90°C LL 103932 FT2 -40°C P-7K-254013 MSHA

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SOOW

600 V

UL 62 and CAN/CSA-C 22.2 No 49

Portable Cord, UL, CSA, MSHA

APPLICATIONS

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. Other industrial applications

CONSTRUCTION

Conductors	Flexible stranded bare copper in accordance with ASTM B-3 and UL 62
Insulation	EPR compound Class 3 comply with Table 8 of UL 62
Color code	ICEA S-58-679,Method 1, Tab.1 2/C Black, White 3/C Black, White, Green 4/C Black, White, Red, Green
Cabling	Insulated conductors are assembled round together without rubber fillers (Integral Filled Version)
Separator *)	Talc *) Paper tape under jacket only for version with rubber fillers
Outer jacket	CPE compound Class 1.4 comply to Table 11 of UL 62
Color of outer jacket	Black. Other colors available on request

Features

Excellent flexibility, resistance to oil, solvents, ozone, weather, sunlight and water. Temperature range –40°C to +90°C: UV, sunlight, ozone, oil, resistant, Ink jet printed for easy identification. Flame test meets FT2, and MSHA. NEC Article 700 permitted use for specific applications. NFPA 70 permitted use in Hazardous Locations Classes I, II, III, Divisions 1 & 2 as outlined in Articles 501, 502, 503 section 140.

Approvals

UL: E123366 (CPE), **CSA:** 1534535 (LL 103932)(CPE), **MSHA:** P-7K-254013 (CPE), FT2

Technical and Electrical Characteristic

Part Number	Size	No of conductor	Conductor strand	Nominal insulation thickness		Nominal jacket thickness		Nominal overall diameter		Weight	Ampacity at 30°C in air
	AWG	**N**	**N/AWG**	**Inches**	**mm**	**Inches**	**mm**	**Inches**	**mm**	**LBS/1000ft**	**A**
SOOW18-2 IF	18	2	16/30	0.030	0.76	0.060	1.52	0.34	8.6	63	10
SOOW18-3 IF		3	16/30	0.030	0.76	0.060	1.52	0.36	9.1	74	10
SOOW18-4 IF		4	16/30	0.030	0.76	0.060	1.52	0.39	9.8	87	7
SOOW16-2 IF	16	2	26/30	0.030	0.76	0.060	1.52	0.374	9.5	76	13
SOOW16-3 IF		3	26/30	0.030	0.76	0.060	1.52	0.39	10.1	90	13
SOOW16-4 IF		4	26/30	0.030	0.76	0.060	1.52	0.42	10.6	107	10
SOOW14-2 IF	14	2	41/30	0.045	1.14	0.080	2.03	0.50	12.6	137	18
SOOW14-3 IF		3	41/30	0.045	1.14	0.080	2.03	0.52	13.3	161	18
SOOW14-4 IF		4	41/30	0.045	1.14	0.080	2.03	0.57	14.4	192	15
SOOW12-2 IF	12	2	65/30	0.045	1.14	0.095	2.41	0.57	14.4	184	25
SOOW12-3 IF		3	65/30	0.045	1.14	0.095	2.41	0.59	15.2	217	25
SOOW12-4 IF		4	65/30	0.045	1.14	0.095	2.41	0.64	16.5	261	20
SOOW10-2 IF	10	2	103/30	0.045	1.14	0.095	2.41	0.62	15.6	230	30
SOOW10-3 IF		3	103/30	0.045	1.14	0.095	2.41	0.65	16.5	281	30
SOOW10-4 IF		4	103/30	0.045	1.14	0.095	2.41	0.71	18.0	336	25

NOTE 1. Ampacity values shown are for current carrying conductors. A grounding conductor, or one which curries only the unbalance current.
NOTE 2. Correction factor for ambient temperature of 40 °C is 0,91.

Standard print legend:

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

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SOOW

600 V

UL 62 and CAN/CSA-C 22.2 No 49

Power Cable UL, CSA, MSHA

APPLICATIONS

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. Other industrial applications

CONSTRUCTION

Conductors	Flexible stranded bare copper in accordance with ASTM B-3 and UL 62
Separator	Paper tape between conductor and insulation
Insulation	EPR compound Class 3 comply with Table 8 of UL 62
Color code	ICEA S-58-679,Method 1, Tab.1 2/C Black, White 3/C Black, White, Green 4/C Black, White, Red, Green 5/C Black, White, Red, Green, Orange
Cabling	Insulated conductors are assembled round together without rubber fillers (Integral Filled Version)
Separator *)	Talc *) Polyester tape under jacket only for version with rubber fillers
Outer jacket	CPE compound Class 1.4 comply to Table 11 of UL 62
Color of outer jacket	Black. Other colors available on request

Features

Excellent flexibility, resistance to oil, solvents, ozone, weather, sunlight and water. Temperature range –40°C to +90°C. UV, sunlight, ozone, oil, resistant. Flame test meets FT2, and MSHA. NEC Article 700 permitted use for specific applications. NFPA 70 permitted use in Hazardous Locations Classes I, II, III, Divisions 1 & 2 as outlined in Articles 501, 502, 503 section 140

Approvals

UL: E123366 (CPE), **CSA:** 1534535 (LL 103932)(CPE), **MSHA:** P-7K-254013 (CPE), FT2

Technical and Electrical Characteristic

Part Number	Size	No of conductor	Conductor strand	Nominal insulation thickness		Nominal jacket thickness		Nominal overall diameter		Weight	Ampacity at 30°C in air
	AWG	**N**	**N/AWG**	**Inches**	**mm**	**Inches**	**mm**	**Inches**	**mm**	**LBS/1000ft**	**A**
SOOW8-3 IF-UL/CSA	8	3	67/0.0156	0.060	1.52	0.110	2.79	0.83	21.1	452	40
SOOW8-4 IF-UL/CSA		4	67/0.0156	0.060	1.52	0.125	3.18	0.93	23.5	577	35
SOOW8-5 IF-UL/CSA		5	67/0.0156	0.060	1.52	0.125	3.18	1.00	25.4	683	28
SOOW6-3 IF-UL/CSA	6	3	184/0.0117	0.060	1.52	0.125	3.18	0.97	24.6	641	55
SOOW6-4 IF-UL/CSA		4	184/0.0117	0.060	1.52	0.140	3.56	1.06	26.9	785	45
SOOW6-5 IF-UL/CSA		5	184/0.0117	0.060	1.52	0.140	3.56	1.18	30.0	983	36
SOOW4-3 IF-UL/CSA	4	3	165/0.0156	0.060	1.52	0.140	3.56	1.13	28.7	913	70
SOOW4-4 IF-UL/CSA		4	165/0.0156	0.060	1.52	0.155	3.94	1.25	31.8	1156	60
SOOW4-5 IF-UL/CSA		5	165/0.0156	0.060	1.52	0.155	3.94	1.31	33.2	1318	48
SOOW2-3 IF-UL/CSA	2	3	262/0.0156	0.060	1.52	0.155	3.94	1.30	33.1	1287	95
SOOW2-4 IF-UL/CSA		4	262/0.0156	0.060	1.52	0.170	4.32	1.45	36.8	1644	80
SOOW2-5 IF-UL/CSA		5	262/0.0156	0.060	1.52	0.170	4.32	1.53	38.8	1900	64

NOTE 1. Ampacity values shown are for current carrying conductors. A grounding conductor, or one which curries only the unbalance current.
NOTE 2. Correction factor for ambient temperature of 40 °C is 0,91.

Standard print legend:

Ink jet printed:

TF CABLE FLEXTREME (COND) (SIZE) (mm2) (UL) TYPE SOOW E123366 90°C SUN&WATER RES 600V FT2 CSA TYPE SOOW 90°C

LL 103932 FT2 -40°C Indent printed: P-7K-254013 MSHA

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SOOW

600 V

UL 62 and CAN/CSA-C 22.2 No 49

Power Cable, MSHA

APPLICATIONS

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. Other industrial applications

CONSTRUCTION

Conductors	Flexible stranded bare copper in accordance with ASTM B-3 and UL 62
Separator	Paper tape between conductor and insulation
Insulation	EPR compound Class 3 comply with Table 8 of UL 62
Color code	ICEA S-58-679,Method 1, Tab.1 2/C Black, White 3/C Black, White, Green 4/C Black, White, Red, Green 5/C Black, White, Red, Green, Orange
Cabling	Insulated conductors are assembled round together without rubber fillers (Integral Filled Version)
Separator	Polyester tape under jacket
Outer jacket	CPE compound Class 1.4 comply to Table 11 of UL 62
Color of outer jacket	Black. Other colors available on request

Features

Excellent flexibility, resistance to oil, solvents, ozone, weather, sunlight and water. Temperature range –40°C to +90°C. UV, sunlight, ozone, oil, resistant. Flame test meets FT2, and MSHA. NEC Article 700 permitted use for specific applications. NFPA 70 permitted use in Hazardous Locations Classes I, II, III, Divisions 1 & 2 as outlined in Articles 501, 502, 503 section 140.

Approvals

MSHA: P-7K-254013 (CPE)

(Non UL, MSHA approved)

Part Number	Size	No of conductor	Conductor strand	Nominal insulation thickness		Nominal jacket thickness		Nominal overall diameter		Weight	Ampacity at 30°C in air
	AWG	**N**	**N/AWG**	**Inches**	**mm**	**Inches**	**mm**	**Inches**	**mm**	**LBS/1000ft**	**A**
SOOW8-2 IF	8	2	67/0.0156	0.05	1.27	0.06	1.52	0.64	16.1	258	40
SOOW8-3 IF		3	67/0.0156	0.05	1.27	0.06	1.52	0.68	17.1	326	40
SOOW8-4 IF		4	67/0.0156	0.05	1.27	0.06	1.52	0.74	18.8	410	35
SOOW8-5 IF		5	67/0.0156	0.05	1.27	0.06	1.52	0.81	20.7	499	28
SOOW6-2 IF	6	2	184/0.0117	0.05	1.27	0.06	1.52	0.72	18.4	353	55
SOOW6-3 IF		3	184/0.0117	0.05	1.27	0.06	1.52	0.77	19.5	450	45
SOOW6-4 IF		4	184/0.0117	0.05	1.27	0.08	2.03	0.89	22.5	607	45
SOOW6-5 IF		5	184/0.0117	0.05	1.27	0.08	2.03	0.97	24.7	736	36
SOOW4-2	4	2	165/0.0156	0.05	1.27	0.08	2.03	0.88	22.4	540	70
SOOW4-3		3	165/0.0156	0.05	1.27	0.08	2.03	0.94	23.8	689	70
SOOW4-4		4	165/0.0156	0.05	1.27	0.08	2.03	1.03	26.1	876	60
SOOW4-5		5	165/0.0156	0.05	1.27	0.08	2.03	1.13	28.8	1068	48
SOOW2-2	2	2	262/0.0156	0.05	1.27	0.08	2.03	1.02	25.8	816	95
SOOW2-3		3	262/0.0156	0.05	1.27	0.08	2.03	1.08	27.4	1029	95
SOOW2-4		4	262/0.0156	0.05	1.27	0.08	2.03	1.19	30.2	1297	80
SOOW2-5		5	262/0.0156	0.05	1.27	0.08	2.03	1.31	33.3	1597	64

NOTE 1. Ampacity values shown are for current carrying conductors. A grounding conductor, or one which curries only the unbalance current.
NOTE 2. Correction factor for ambient temperature of 40 °C is 0,91.

Standard print legend:

Ink jet printed:

TF CABLE FLEXTREME (COND) (SIZE) (mm2) TYPE SOOW SUN&WATER RES 90°C

Indent printed: P-7K-254013 MSHA

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SOOW

600 V

UL 62 and CAN/CSA-C 22.2 No 49

Control Cable, UL, CSA, MSHA

APPLICATIONS

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. Other industrial applications

CONSTRUCTION

Conductors	Flexible stranded bare copper in accordance with ASTM B-3 and UL 62
Insulation	EPR compound Class 3 comply with Table 8 of UL 62
Color code	ICEA S-58-679, Method 1, Tab.1 [1] non NEC applications [2]
Cabling	Insulated conductors are assembled round together (Integral Filled Version) 8, 9, 21, 40 - core cables twisted on centrally placed, thicker insulated black conductor, instead of a rubber filler.
Separator	Polyester tape under jacket (above 5 cores cables)
Outer jacket	CPE compound Class 1.4 comply to Table 11 of UL 62
Color of outer jacket	Black. Other colors available on request

Number of core	Color	Tracer	Number of core	Color	Tracer	Number of core	Color	Tracer
1	Black	–	8	Red	Black	15	Blue	White
2	White	–	9	Green	Black	16	Black	Red
3	Red	–	10	Orange	Black	17	White	Red
4	Green	–	11	Blue	Black	18	Orange	Red
5	Orange	–	12	Black	White	19	Blue	Red
6	Blue	–	13	Red	White	20	Red	Green
7	White	Black	14	Green	White	21	Orange	Green

1) For more than 21 conductors the color sequence be repeated as necessary
2) For method 1 color sequence to comply with NEC applications

Features

Excellent flexibility, resistance to oil, solvents, ozone, weather, sunlight and water. Temperature range –40°C to +90°C UV, sunlight, ozone, oil, resistant. Ink jet printed for easy identification. Flame test meets FT2, and MSHA. NEC Article 700 permitted use for specific applications. NFPA 70 permitted use in Hazardous Locations Classes I, II, III, Divisions 1 & 2 as outlined in Articles 501, 502, 503 section 140.

Approvals

UL: E123366 (CPE), **CSA:** 1534535 (LL 103932)(CPE), **MSHA:** P-7K-254013 (CPE), FT2

Technical and Electrical Characteristic

Part Number	Size	No of conductor	Conductor strand	Nominal insulation thickness		Nominal jacket thickness		Nominal overall diameter		Weight	Ampacity at 30°C in air
	AWG	**N**	**N/AWG**	**Inches**	**mm**	**Inches**	**mm**	**Inches**	**mm**	**LBS/1000ft**	**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	16/30	0.030	0.76	0.080	2.03	0.48	12.3	131	5.6
SOOW18-7		7	16/30	0.030	0.76	0.080	2.03	0.48	12.3	134	5.6
SOOW18-8*		8	16/30	0.030	0.76	0.080	2.03	0.52	13.1	151	4.9
SOOW18-9*		9	16/30	0.030	0.76	0.080	2.03	0.55	14.0	178	4.9
SOOW18-10		10	16/30	0.030	0.76	0.080	2.03	0.59	15.0	180	4.9
SOOW18-12		12	16/30	0.030	0.76	0.080	2.03	0.61	15.4	202	3.5
SOOW18-14		14	16/30	0.030	0.76	0.095	2.41	0.66	16.9	246	3.5
SOOW18-16		16	16/30	0.030	0.76	0.095	2.41	0.69	17.6	274	3.5
SOOW18-20		20	16/30	0.030	0.76	0.095	2.41	0.76	19.3	333	3.5
SOOW18-24		24	16/30	0.030	0.76	0.095	2.41	0.83	21.2	376	3.2
SOOW18-30		30	16/30	0.030	0.76	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
SOOW16-6		6	26/30	0.030	0.76	0.080	2.03	0.53	13.4	165	8
SOOW16-7		7	26/30	0.030	0.76	0.080	2.03	0.53	13.4	170	8
SOOW16-8*		8	26/30	0.030	0.76	0.080	2.03	0.56	14.3	193	7
SOOW16-9*		9	26/30	0.030	0.76	0.095	2.41	0.63	16.1	238	7
SOOW16-10		10	26/30	0.030	0.76	0.095	2.41	0.68	17.2	251	7
SOOW16-12		12	26/30	0.030	0.76	0.095	2.41	0.70	17.7	282	5
SOOW16-14		14	26/30	0.030	0.76	0.095	2.41	0.73	18.5	316	5
SOOW16-16		16	26/30	0.030	0.76	0.095	2.41	0.76	19.4	354	5
SOOW16-20*		20	26/30	0.030	0.76	0.095	2.41	0.84	21.2	434	5
SOOW16-24		24	26/30	0.030	0.76	0.095	2.41	0.92	23.4	520	4.5
SOOW16-30		30	26/30	0.030	0.76	0.110	2.79	1.00	25.4	615	4.5
SOOW16-37		37	26/30	0.030	0.76	0.110	2.79	1.07	27.3	730	4
SOOW16-40*		40	26/30	0.030	0.76	0.110	2.79	1.11	28.2	772	4
SOOW16-52		52	26/30	0.030	0.76	0.125	3.18	1.28	32.4	1016	3.5
SOOW16-60		60	26/30	0.030	0.76	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
SOOW14-6		6	41/30	0.045	1.14	0.095	2.41	0.69	17.6	277	12
SOOW14-7		7	41/30	0.045	1.14	0.095	2.41	0.69	17.6	285	12
SOOW14-8*		8	41/30	0.045	1.14	0.095	2.41	0.74	18.9	324	10.5
SOOW14-10		10	41/30	0.045	1.14	0.095	2.41	0.86	21.9	388	10.5
SOOW14-12		12	41/30	0.045	1.14	0.095	2.41	0.89	22.5	441	7.5

Part Number	Size	No of conductor	Conductor strand	Nominal insulation thickness		Nominal jacket thickness		Nominal overall diameter		Weight	Ampacity at 30°C in air
	AWG	**N**	**N/AWG**	**Inches**	**mm**	**Inches**	**mm**	**Inches**	**mm**	**LBS/1000ft**	**A**
SOOW14-16		16	41/30	0.045	1.14	0.095	2.41	0.98	24.8	563	7.5
SOOW14-20		20	41/30	0.045	1.14	0.010	2.79	1.11	28.1	730	7.5
SOOW14-24		24	41/30	0.045	1.14	0.010	2.79	1.22	31.1	828	6.8
SOOW14-30		30	41/30	0.045	1.14	0.125	3.18	1.32	33.6	1027	6.8
SOOW14-37		37	41/30	0.045	1.14	0.125	3.18	1.42	36.2	1224	6.0
SOOW12-5	12	5	65/30	0.045	1.14	0.095	2.41	0.70	17.8	319	16
SOOW12-6		6	65/30	0.045	1.14	0.095	2.41	0.74	18.8	344	16
SOOW12-7		7	65/30	0.045	1.14	0.095	2.41	0.74	18.8	358	16
SOOW12-8*		8	65/30	0.045	1.14	0.095	2.41	0.80	20.2	408	14
SOOW12-9*		9	65/30	0.045	1.14	0.095	2.41	0.92	23.5	461	14
SOOW12-10		10	65/30	0.045	1.14	0.110	2.79	0.95	24.2	519	14
SOOW12-12		12	65/30	0.045	1.14	0.110	2.79	0.98	24.9	591	10
SOOW12-14		14	65/30	0.045	1.14	0.110	2.79	1.03	26.1	668	10
SOOW12-16		16	65/30	0.045	1.14	0.110	2.79	1.08	27.5	755	10
SOOW12-20		20	65/30	0.045	1.14	0.125	3.18	1.22	31.0	971	10
SOOW12-24		24	65/30	0.045	1.14	0.125	3.18	1.35	34.3	1106	9
SOOW12-26		26	65/30	0.045	1.14	0.125	3.18	1.38	35.0	1180	9
SOOW12-30		30	65/30	0.045	1.14	0.125	3.18	1.43	36.3	1327	9
SOOW12-37		37	65/30	0.045	1.14	0.125	3.18	1.53	39.0	1588	8
SOOW12-44		44	65/30	0.045	1.14	0.125	3.18	1.72	43.6	1868	7
SOOW10-5	10	5	103/30	0.045	1.14	0.095	2.41	0.76	19.3	409	20
SOOW10-6		6	103/30	0.045	1.14	0.095	2.41	0.82	20.7	452	20
SOOW10-7		7	103/30	0.045	1.14	0.095	2.41	0.82	20.7	474	20
SOOW10-8*		8	103/30	0.045	1.14	0.095	2.41	0.88	22.3	541	17.5
SOOW10-10		10	103/30	0.045	1.14	0.110	2.79	1.05	26.8	686	17.5
SOOW10-12		12	103/30	0.045	1.14	0.110	2.79	1.09	27.6	788	12.5
SOOW10-16		16	103/30	0.045	1.14	0.125	3.18	1.23	31.2	1053	12.5
SOOW10-20		20	103/30	0.045	1.14	0.125	3.18	1.35	34.4	1304	12.5
SOOW10-26		26	103/30	0.045	1.14	0.125	3.18	1.54	39.0	1598	11.3
SOOW10-30		30	103/30	0.045	1.14	0.125	3.18	1.59	40.4	1803	11.3
SOOW10-40*		40	103/30	0.045	1.14	0.141	3.58	1.87	47.4	2464	10

* construction with a larger diameter black core in the center. (thicker insulation)

Standard print legend:

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

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SOOW/H07RN-F

750 V

UL 62 and EN 50525-2-21

APPLICATIONS

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. Other industrial applications

CONSTRUCTION

Conductors	Flexible stranded bare copper in accordance with ASTM B-174 and UL 62 IEC 60228
Separator	Paper tape as needed
Insulation	EPR thermosetting compound
Color code	3/C Green/Yellow, Blue, Brown 4/C Green/Yellow, Brown, Black, Grey 5/C Green/Yellow, Blue, Brown, Black, Grey 6/C Green/Yellow, other cores black with white numbering
Cabling	Insulated conductors are assembled round without fillers
Separator	Polyester tape
Outer jacket	CPE thermosetting compound
Color of outer jacket	Black. Other colors available on request

Features

Excellent flexibility, resistance to oil, solvents, ozone, weather, sunlight and water. Temperature range –40°C to +90°C. UV, sunlight, ozone, oil, resistan. Ink jet printed for easy identification. Flame test meets FT2, and MSHA.

Approvals

(UL) & CUL: E123366, **MSHA:** P-7K-254013, **CSA:** 1534535 (LL 103932), **BBJ <HAR>**

Meeting UL 62 and EN 50525-2-21

Part Number	mm² (AWG) Size	No of Cond.	Cond. Strand	Nominal Insulation Thickness		Nominal Jacket Thickness		Nominal Overall diameter		Min Overall diameter		Max Overall diameter		Weight	Ampacity (1) 30°C Ambient Temp.
			N	**Inches**	**mm**	**Inches**	**mm**	**Inches**	**mm**	**Inches**	**mm**	**Inches**	**mm**	**kg/km**	**A**
SOOW/H07RN-F 17AWG-2	1,04 mm² (17 AWG)	2	32/0.2	0.032	0.81	0.063	1.6	0.363	9.2	0.35	8.89	0.39	9.91	112	10
SOOW/H07RN-F 17AWG-3		3	32/0.2	0.032	0.81	0.063	1.60	0.386	9.8	0.374	9.50	0.402	10.20	125	7
SOOW/H07RN-F 17AWG-4		4	32/0.2	0.032	0.81	0.063	1.60	0.412	10.5	0.400	10.16	0.445	11.3	147	5,6
SOOW/H07RN-F 17AWG-5		5	32/0.2	0.032	0.81	0.080	2.03	0.479	12.2	0.465	11.81	0.516	13.1	207	5,6
SOOW/H07RN-F 13AWG-4	2,63 mm² (13 AWG)	4	52/0.25	0.047	1.19	0.085	2.16	0.594	15.1	0.575	14.6	0.61	15.5	328	12
SOOW/H07RN-F 11AWG-3	4,17 mm² (11 AWG)	3	57/0.3	0.047	1.19	0.095	2.41	0.628	15.9	0.610	15.5	0.638	16.2	377	20
SOOW/H07RN-F 11AWG-4		4	57/0.3	0.047	1.19	0.10	2.54	0.689	17.5	0.660	16.7	0.705	17.9	456	16
SOOW/H07RN-F 11AWG-5		5	57/0.3	0.047	1.19	0.10	2.54	0.748	19.0	0.72	18.3	0.783	19.9	548	16
SOOW/H07RN-F 9AWG-3	6,63 mm² (9 AWG)	3	91/0.3	0.047	1.19	0.10	2.54	0.693	17.6	0.670	17.0	0.709	18	487	25
SOOW/H07RN-F 9AWG-4		4	91/0.3	0.047	1.19	0.10	2.54	0.752	19.1	0.725	18.4	0.787	20	587	20
SOOW/H07RN-F 9AWG-5		5	91/0.3	0.047	1.19	0.106	2.70	0.827	21.0	0.795	20.2	0.874	22.2	713	20
SOOW/H07RN-F 7AWG-3	10,6 mm² (7 AWG)	3	82/0.4	0.062	1.57	0.135	3.43	0.917	23.3	0.909	23.0	0.953	24.2	852	35
SOOW/H07RN-F 7AWG-4		4	82/0.4	0.062	1.57	0.140	3.56	1.004	25.5	0.988	25.1	1.043	26.5	1050	28
SOOW/H07RN-F 7AWG-5		5	82/0.4	0.062	1.57	0.142	3.60	1.091	27.7	1.080	27.4	1.146	29.1	1251	28

(1) Ampacity – Free air measured; Based on continuous duty at 90 °C conductor temperature
For four and five conductor cables 3 conductors are current-carrying.

Standard print legend

17AWG 1*):	**Above 17AWG:**
TF KABLE 3 17AWG (1,0mm²)/3C (UL) SOOW 600V 90°C E123366 c(UL) SOOW 600V 90°C FT2 --- BBJ < HAR > H07RN-F ROHS	TF KABLE 3 9AWG (6,0mm²)/5C (UL) SOOW 600V 90°C E123366 c(UL) SOOW 600V 90°C FT2 --- BBJ <HAR> H07RN-F CE ROHS

1) For 17AWG size „CE" mark is printed on the reel tags*

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TYPE SC/PPC Flex

Stage & Lighting 600V 105°C

CAN/CSA-C 22.2 No 96-09, UL 1680, UL 62, UL 1581

Flexible rubber insulated single core cables

APPLICATIONS

Portable power and lighting applications in the entertainment industry including motion picture, television, theatres, stages and similar locations. For use in accordance with NEC Articles 520, 525 and 530, indoor and outdoor locations.Other industrial applications

CONSTRUCTION

Conductors	Flexible stranding 30 AWG annealed bare copper
Separator	Paper tape separator between the conductor and insulation
Outer jacket	Heavy duty CPE thermosetting jacket
Colour of outer jacket	Black

Features

Excellent flexibility. Suitable for continuous submersion in water. Temperature range –35°C to +105°C. Flame test meets VW-1. UV, sunlight, ozone, oil, resistant.

Part Number	Conductor Size	Conductor stranding	Nominal jacket thickness	Overall diameter			Weight	Ampacity1
				minimum	approx.	maximum		
	AWG	**N/AWG**	**Inches**	**Inches**	**Inches**	**Inches**	**LBS/1000ft**	**A**
STAGE6	6	258/30	0.060	0.356	0.371	0.383	128	105
STAGE4	4	412/30	0.060	0.413	0.429	0.441	186	140
STAGE2	2	649/30	0.071	0.494	0.509	0.521	279	190
STAGE1	1	817/30	0.080	0.598	0.613	0.625	378	220
STAGE1/0	1/0	1033/30	0.080	0.657	0.672	0.684	452	260
STAGE2/0	2/0	1289/30	0.080	0.681	0.697	0.709	537	300
STAGE3/0	3/0	1650/30	0.080	0.757	0.773	0.785	666	350
STAGE4/0	4/0	2062/30	0.080	0.798	0.814	0.826	807	405
STAGE6-GRN *)	6	258/30	0.060	0.356	0.371	0.383	128	105

(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 1999 NEC.
**) STAGE6-GRN - Heavy duty EP/CPE two layers version.*

Standard print legend:

Indent printed: TF CABLE -50C (UL) E228208 (SIZE) TYPE SC 105C MAX AMPS NEC TABLE 400(A)(2) FOR 90C 600V WATER & OIL RES. 60CE207132 C(UL) PPC FT5
Ink jet printed: ft + date and time of production

Standard print legend for 6AWG green:

Indent printed: TF CABLE (UL) E228208 (SIZE) TYPE SC 105C -35C MAX AMPS NEC TABLE 400-5B FOR 90C 600V WATER RES. OIL RES. 60CE207132 C(UL) TYPE PPC FT5
Ink jet printed: ft + date and time of production

TYPE RHH/RHW-2/USE -2

600V

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

SINGLE CONDUCTOR PORTABLE POWER CABLES

APPLICATIONS

Designed for uses requiring a heavy duty power cable, For portable or fixed installations. For motors, batteries, generators, jumper cables

CONSTRUCTION

Conductors:	Annealed flexible stranded tinned copper Class B with ASTM B-8, B-33
Separator:	A suitable tape separator between the conductor and insulation
Insulation:	EPR (Ethylene-propylene rubber)
Outer jacket	A heavy duty, thermosetting CPE compound. Black color

Features

UL listed RHH/RHW-2/USE-2. Rated 900C dry and wet. Sunlight , ozone ,oil, grease, weather, water, chemical and abrasion resistant. VW-1, SUN RES, FOR CT USE for sizes 1/0awg and larger. Ink jet printed for easy identification

Approvals

UL: E232192-EPR/CPE RHW-2 900C wet or dry , Sunlight resistant VW-1 for CT use 1/0 and larger

Part Number	Size	Number of strands	Conductor diameter	Nominal thickness		Approx. Weight	Overall diameter	Ampacity [1] 40°C Ambient temp.
				Insulation	Jacket			
	AWG or MCM	**N**	**Inches**	**Inches**	**Inches**	**Lbs./1000Ft**	**Inches**	**A**
USE2-14	14 AWG	7	0,072	0,03	0,015	24	0,177	25
USE2-12	12 AWG	7	0,091	0,03	0,015	33	0,197	32
USE2-10	10AWG	7	0,116	0,03	0,015	49	0,224	47
USE2-8	8 AWG	7	0,145	0,045	0,015	78	0,280	83
USE2-6	6 AWG	7	0,183	0,045	0,030	124	0,346	109
USE2-4	4AWG	7	0,231	0,045	0,030	180	0,406	145
USE2-2	2 AWG	7	0,292	0,045	0,030	259	0,465	192
USE2-1/0	1/0 AWG	19	0,366	0,055	0,045	419	0,591	258
USE2-2/0	2/0 AWG	19	0,411	0,055	0,045	511	0,634	298
USE2-4/0	4/0 AWG	19	0,528	0,055	0,045	772	0,752	400
USE2-250	250 MCM	37	0,575	0,065	0,065	950	0,862	445
USE2-350	350 MCM	37	0,681	0,065	0,065	1283	0,969	552
USE2-500	500 MCM	37	0,813	0.065	0.065	1790	1,102	695
USE2-750	750 MCM	61	0,998	0.080	0.065	2642	1,315	898
USE2-1000	1000 MCM	61	1,152	0.080	0.065	3469	1,469	1076

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

Standard print legend:

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

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ARC-WELDING EP

600 V

In line with UL 1581

Zero Halogen EP insulated Welding cable 105°C

APPLICATIONS

Secondary voltage resistant welding leads. Leads for motors, generators, batteries. Other industrial applications

CONSTRUCTION

Conductors	Flexible stranded bare copper per ASTM B 172 Class K.
Separator	Paper tape separator between conductor and insulation
Insulation	Ethylene-propylene rubber (EPR). Class 45 105 0C , Table 50.55 of UL 1581
Color	Black 6AWG-500 MCM. Red 6AWG-4/0AWG

Features

Excellent flexibility. Ozone, sun, weather resistant. Rated and flexible at –50°C. Heat resistant at 105°C. Oil resistant

Part Number	Size	Conductor strand	Nominal insulation thickness		Overall diameter		Weight		Max. Direct Current Resistance	Ampacity(1)
	AWG	**Stranding**	**Inches**	**mm**	**Inches**	**mm**	**Lbs./1000ft.**	**kg/km**	**20°C Ω/km**	**A**
WC6	6	253/30	0.06	1.52	0.315	8.0	114	169	1.38	133
WC4	4	403/30	0.06	1.52	0.358	9.1	168	250	0.865	179
WC2	2	636/30	0.06	1.52	0.422	10.7	249	370	0.549	237
WC1	1	798/30	0.08	2.03	0.492	12.5	299	445	0.436	284
WC1/0	1/0	1016/30	0.08	2.03	0.547	13.9	387	576	0.345	327
WC2/0	2/0	1261/30	0.08	2.03	0.591	15.0	470	699	0.276	377
WC3/0	3/0	1590 /30	0.08	2.03	0.657	16.7	588	875	0.219	449
WC4/0	4/0	2007/30	0.08	2.03	0.705	17.9	722	1075	0.173	514
WC250	250	2399/30	0.095	2.41	0.807	20.5	890	1324	0.147	577
WC350	350	3327/30	0.095	2.41	0.894	22.7	1193	1775	0.106	719

Part Number	Size	Conductor strand	Nominal insulation thickness		Overall diameter		Weight		Max. Direct Current Resistance	Ampacity(1)
	AWG	**Stranding**	**Inches**	**mm**	**Inches**	**mm**	**Lbs./1000ft.**	**kg/km**	**20°C Ω/km**	**A**
WC500	500	4746/30	0.095	2.41	1.122	28.5	1724	2565	0.0743	908
WC6-RED*	6 AWG	253/30	0.060	1,52	0.319	8.1	115	171	1.38	133
WC4-RED	4 AWG	403/30	0.060	1,52	0.366	9.3	169	252	0.865	179
WC2-RED	2 AWG	636/30	0.060	1,52	0.429	10.9	255	379	0.549	237
WC1-RED	1 AWG	798/30	0.080	2,03	0.508	12.9	303	451	0.436	284
WC1/0-RED	1/0 AWG	1016/30	0.080	2,03	0.555	14.1	396	589	0.345	327
WC2/0-RED	2/0 AWG	1261/30	0.080	2,03	0.598	15.2	482	719	0.276	377
WC3/0-RED	3/0 AWG	1590/30	0.080	2,03	0.673	17.1	595	887	0.219	449
WC4/0-RED	4/0 AWG	2007/30	0.080	2,03	0.716	18.2	734	1092	0.173	514

*(1) Ampacity –Free air measured. Based on continuous duty at 90 °C conductor temperature *Not covered by 1523058 certificate.*

Standard print legend:

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

Special factory option

Conductors	Class M (34 AWG) stranding
Jacket:	Neoprene
CSA:	1523058 (LR 103932)(for8 AWG÷300 kcmil) ;Oil Resistant (Optional)

WELDING CABLES AMPACITIES SINGLE CONDUCTOR
Required Cables Sizes: For Welding Cables Application

AMPS	Length in feet for total circuit for secondary voltages only (do not use this table for 600 Volt in-line applications						
	100	**150**	**200**	**250**	**300**	**350**	**400**
100	4	4	2	2	1	1/0	1/0
150	4	2	1	1/0	2/0	3/0	3/0
200	2	1	1/0	2/0	3/0	4/0	4/0
250	1	1/0	2/0	3/0	4/0		
300	1/0	2/0	3/0	4/0			
350	1/0	3/0	4/0				
400	2/0	3/0					
450	2/0	4/0					
500	3/0	4/0					
550	3/0	4/0					
600	4/0	Required Cable Sizes Shown In AWG Numbers					

The total circuit length includes both welding and ground leads (based on 4 volt drop), 60% duty cycle.
These values for current-carrying capacity are based on a copper temperature of 60 °C (140 °F), an ambient temperature of 40 °C (104 °F) and yield load factors of from approximately 32% for the No.2AWG cable to approximately 23% for the No. 3/0AWG cable, and higher for the smaller sizes.
The sizes of cables generally used range from No.2AWG to No.3/0AWG. In actual service, the load factor may be much higher than indicated without overheating the cable as the ambient temperature will generally be substantially lower than 40 °C.

JUMPER CABLE

5kV/15kV

ASTM B173, ASTM B 33

Flexible rubber insulated and sheathed cable

APPLICATIONS

Suitable as a flexible power lead for temporary connections. Other industrial applications

CONSTRUCTION

Conductors	Annealed flexible stranded tin coated in accordance with ASTM B 33 and ASTM B-173
Separator	Semi-conducting tape separator between the conductor and insulation
Insulation	Ethylene-propylene rubber (EPR)
Outer jacket	A synthetic thermosetting CPE compound
Color of outer jacket	Red

Features

Excellent flexibility. Water resistant. Temperature range –40°C to +90 °C. Ink jet printed for easy identification.

Technical and Electrical Characteristic 15kV

Part Number	Size	Conductor Strand	Nominal Insulation Thickness	Nominal Jacket Thickness	Outside Diameter	Approx. Weight		Ampacity(1) At 40°C Ambient Temp.
	AWG		**inches**	**inches**	**inches**	**kg/km**	**lbs/1000ft**	**A**
JC2	2	259	0,175	0,08	0,823	715	480	195
JC1/0	1/0	414	0,175	0,08	0,898	952	640	255
JC2/0	2/0	522	0,175	0,08	0,945	1113	748	293
JC4/0	4/0	829	0,175	0,08	1,071	1565	1052	389
JC250	250	973	0,175	0,08	1,144	1795	1206	430
JC350	350	1361	0,175	0,08	1,260	2357	1584	529
JC500	500	1921	0,175	0,08	1,402	3109	2089	659

(1) Ampacity – Based on 90°C conductor temperature

Standard print legend:

TF CABLE (SIZE) 5/15KV NON SHIELDED JUMPER CABLE 90C

MAX +70°C RoHS CE MIN -35°C SUPER flexible

Grounding Cable

600V

IEC61138

Grounding cables with flexible copper conductor and special transparent PVC jacket

APPLICATIONS

A transparent PVC jacketed flexible cable used for grounding jumpers installed temporarily for protective grounding of de-energized circuits

CONSTRUCTION

Conductors	Bare copper flexible circular conductor class K acc. to ASTM B-172
Jacket:	special transparent PVC compound type TM2 acc. to EN 50363-4-1

Characteristic

Colour of jacket:	transparent
Maximum conductor operating temperature:	+70°C
Lowest ambient temperature for handling:	- 35°C
Maximum short-circuit conductor temperature:	+160°C
Other Features:	Transparent jacket provides easy confirmation of continuity and ease of troubleshooting

Features

Extremely flexible stranding for ease of bending and installation

Fire Performance

Flame retardant: IEC 60332-1-2

Technical and Electrical Characteristic

Part Number	Power Conductor Size	Power Conductor Stranding	Nominal Insulation Thickness		Nominal overall diameter		Weight	
	AWG	**No. and Diameter of Stranding**	**Inches**	**mm**	**Inches**	**mm**	**kg/km**	**LBS/1000ft**
GRD-CLR2/0-1	2/0 AWG	1323 / 0.010	0.110	2.79	0.710	18.03	790	530
GRD-CLR4/0-1	4/0 AWG	2107 / 0.010	0.110	2.79	0.850	21.59	1189	799

Standard print legend:

TF CABLE (SIZE) 600V GROUNDING CABLE

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Grounding Cable

600V

ASTM F855 type I; ASTM B-172

Grounding cables with flexible copper conductor Synthetic CPE compound

APPLICATIONS

A grounding flexible cable used for grounding jumpers installed temporarily for protective grounding of de-energized circuits

CONSTRUCTION

Conductor	Annealed bare copper stranded wires ASTM B-172 class K
Separator	Polyester tape applied longitudinally over conductor
Jacket:	Flame retardant, oil resistant, synthetic thermosetting CPE compound
Colour of jacket:	Yellow

Features

Excellent flexibility, Flame retardant. Temperature range: –40°C to +90°C.
Spark tested 12,5kV - C22.2 No. 96-09. Minimum bending radius: 6 x D ; D – overall diameter of cable

Technical and Electrical Characteristic

Part Number	Nominal cross-sec-tional area of conductor	Number of wires in conductor x Diameter	Nominal thickness of jacket		Overall diameter		Approximate weight	
	AWG	**N x mm**	**Inches**	**mm**	**Inches**	**mm**	**kg/km**	**LBS/1000ft**
GRDCPE-YEL2/0-1	2/0	1323x0,254	0,105	2,7	0,693	17,6	795	534
GRDCPE-YEL4/0-1	4/0	2107x0,254	0,110	2,8	0,843	21,4	1215	816

Standard print legend:

TF CABLE (SIZE) 600V GROUNDING CABLE mfg. acc to ASTM F855 type I

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MV-105 5kV/15kV

UL 1072, ASTM B-8

Medium Voltage 5kV & 15kV 133% Copper Conductor, Copper Tape Shielded Power Cable

APPLICATIONS

INDUSTRIAL AND COMMERCIAL
- Chemical Plants
- Petrochemical Plants
- Electrical Utility Plants
- Water Treatment Facilities
- Textile Mills
- Steel Mills
- Paper Mills
- Airports
- Shopping Malls
- Military Bases
- Medical Facilities
- Sports Stadiums

INSTALLATIONS
- In Cable Tray
- Conduit in Air
- Aerial with Messenger Supported
- Direct Buried
- Underground Duct
- Wet and Dry Locations

CONSTRUCTION

Conductor	Class B compressed annealed uncoated copper
Conductor shield	Extruded layer of semiconducting compound applied under simultaneous triple extrusion process
Insulation	Extruded layer of 105°C rated Ethylene Propylene Rubber (EPR)
Insulation shield	Extruded layer of semiconducting compound applied by triple extrusion process
Metallic shield	5 mil bare copper tape applied helically with a 25% overlap
Jacket	Extruded layer of black sunlight resistant Polyvinyl Chloride (PVC)

Characteristic

Maximum conductor operating temperature:	+105°C
Maximum short-circuit conductor temperature:	+250°C
Lowest ambient temperature for mixed installation	-40°C
Lowest installation temperature	-5°C
Minimum bending radius	12xD (D-overall diameter of cable)

- Flame retardant PVC jacket
- Listed for CT use for sizes I/0 AWG and larger

Approvals

(UL): E231073

5Kv 133%/8Kv 100% Insulation Level

Part Number	Conductor Size	Insulation Thickness	Diameter over Insulation	Jacket Thickness	Outer Diameter	Cable Weight	Ampacities * Isolated in Air	Direct Buried	Underground Duct
	AWG / MCM	**mils**	**inches**	**mils**	**inches**	**lbs /kft**	**A**		
MV105-5kV2-1	2 AWG		0.55		0.78	450	215	225	155
MV105-5kV1-1	1 AWG		0.60	60	0.80	520	250	260	180
MV105-5kV1/0-1	1/0 AWG		0.65		0.85	610	290	295	210
MV105-5kV2/0-1	2/0 AWG		0.69		0.95	700	330	335	235
MV105-5kV3/0-1	3/0 AWG		0.75		1.00	870	385	380	270
MV105-5kV4/0-1	4/0 AWG	115	0.80		1.05	1020	445	435	310
MV105-5kV250-1	250 MCM		0.85		1.10	1130	495	475	345
MV105-5kV350-1	350 MCM		0.95	80	1.20	1510	615	575	410
MV105-5kV500-1	500 MCM		1.10		1.35	2075	775	700	505
MV105-5kV750-1	750 MCM		1.30		1.55	2890	1000	865	630
MV105-5kV1000-1	1000 MCM		1.40		1.70	3715	1200	1005	720

15kV 133% INSULATION LEVEL

Part Number	Conductor Size	Insulation Thickness	Diameter over Insulation	Jacket Thickness	Outer Diameter	Cable Weight	Ampacities * Isolated in Air	Direct Buried	Underground Duct
	AWG / MCM	**mils**	**inches**	**mils**	**inches**	**lbs /kft**	**A**		
MV105-15kV2-1	2 AWG		0.75		1.03	620	215	225	165
MV105-15kV1-1	1 AWG		0.79		1.05	710	250	260	185
MV105-15kV1/0-1	1/0 AWG		0.82		1.09	790	290	295	215
MV105-15kV2/0-1	2/0 AWG		0.86		1.13	905	335	335	245
MV105-15kV3/0-1	3/0 AWG		0.92	80	1.17	1040	385	380	275
MV105-15kV4/0-1	4/0 AWG	220	0.97		1.21	1210	445	435	315
MV105-15kV250-1	250 MCM		1.02		1.30	1390	495	475	345
MV105-15kV350-1	350 MCM		1.12		1.40	1750	610	575	415
MV105-15kV500-1	500 MCM		1.26		1.52	2200	765	700	500
MV105-15kV750-1	750 MCM		1.41	110	1.77	3190	990	865	610
MV105-15kV1000-1	1000 MCM		1.58		1.95	4150	1185	1005	690

** Ampacities „Underground Duct" per NEC 2011 Table 310.60 (C) (78). Ampacities „Isolated in Air" per NEC 2011 Table 310.60 (C) (70). Ampacities „Direct Buried" per NEC 2011 Table 310.60 (C) (82).*

Standard print legend:

TF Cable (voltage) (size) TYPE MV-105 SHIELDED COPPER EPR 133% INS LEVEL SUN RES FOR CT USE DIRECT BURIAL UL E231073

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MV-105 5kV &15kV

UL 1072, ASTM B-231

Medium Voltage 5kV & 15kV 133% Aluminum Conductor, Copper Tape Shielded Power Cable

APPLICATIONS

INDUSTRIAL AND COMMERCIAL
- Chemical Plants
- Petrochemical Plants
- Electrical Utility Plants
- Water Treatment Facilities
- Textile Mills
- Steel Mills
- Paper Mills
- Airports
- Shopping Malls
- Military Bases
- Medical Facilities
- Sports Stadiums

INSTALLATIONS
- In Cable Tray
- Conduit in Air
- Aerial with Messenger Supported
- Direct Buried
- Underground Duct
- Wet and Dry Locations

CONSTRUCTION

Conductor	Class B compressed annealed uncoated aluminium
Conductor shield	Extruded layer of semiconducting compound applied under simultaneous triple extrusion process
Insulation	Extruded layer of 105°C rated Ethylene Propylene Rubber (EPR)
Insulation shield	Extruded layer of semiconducting compound applied by triple extrusion process
Metallic shield	5 mil bare copper tape applied helically with a 25% overlap.
Jacket	Extruded layer of black sunlight resistant Polyvinyl Chloride (PVC)

Characteristic

Maximum conductor operating temperature:	+105°C
Maximum short-circuit conductor temperature:	+250°C
Lowest ambient temperature for mixed installation	-40°C
Lowest installation temperature	-5°C
Minimum bending radius	12xD (D-overall diameter of cable)

- Flame retardant PVC jacket
- Listed for CT use for sizes I/0 AWG and larger

Approvals

(UL): E231073

5Kv 133%/8Kv 100% Insulation Level

Part Number	Conductor Size	Insulation Thickness	Diameter over Insulation	Jacket Thickness	Outer Diameter	Cable Weight	Ampacities * Isolated in Air	Direct Buried	Underground Duct
	AWG / MCM	**mils**	**inches**	**mils**	**inches**	**lbs /kft**	**A**		
MV105-5kV2-1	2 AWG		0.54		0.74	325	165	195	125
MV105-5kV1-1	1 AWG		0.58	60	0.78	359	195	220	140
MV105-5kV1/0-1	1/0 AWG		0.61		0.82	396	225	250	160
MV105-5kV2/0-1	2/0 AWG		0.66		0.86	442	260	285	185
MV105-5kV3/0 -1	3/0 AWG		0.70		0.93	526	300	320	210
MV105-5kV4/0-1	4/0 AWG	115	0.77		1.00	599	350	365	245
MV105-5kV250-1	250 MCM		0.82	80	1.05	661	385	395	270
MV105-5kV350-1	350 MCM		0.92		1.15	807	480	480	325
MV105-5kV500-1	500 MCM		1.05		1.28	1012	605	580	400
MV105-5kV750-1	750 MCM		1.24		1.46	1349	790	720	505
MV105-5kV1000-1	1000 MCM		1.40		1.61	1665	950	840	590

15kV 133% INSULATION LEVEL

Part Number	Conductor Size	Insulation Thickness	Diameter over Insulation	Jacket Thickness	Outer Diameter	Cable Weight	Ampacities * Isolated in Air	Direct Buried	Underground Duct
	AWG / MCM	**mils**	**inches**	**mils**	**inches**	**lbs /kft**	**A**		
MV105-15kV2-1	2 AWG		0.75		0.97	505	170	175	130
MV105-15kV1-1	1 AWG		0.79		1.01	525	195	200	145
MV105-15kV1/0-1	1/0 AWG		0.82		1.04	580	225	230	165
MV105-15kV2/0-1	2/0 AWG		0.86		1.09	635	260	260	190
MV105-15kV3/0-1	3/0 AWG		0.91	80	1.13	705	300	295	215
MV105-15kV4/0-1	4/0 AWG	220	0.97		1.19	790	350	340	245
MV105-15kV250-1	250 MCM		1.03		1.25	860	385	370	270
MV105-15kV350-1	350 MCM		1.13		1.35	1010	480	450	330
MV105-15kV500-1	500 MCM		1.25		1.47	1230	600	545	400
MV105-15kV750-1	750 MCM		1.43	110	1.65	1590	780	680	490
MV105-15kV1000-1	1000 MCM		1.59		1.86	2030	940	795	565

Standard print legend:

TF Cable (voltage) (size) TYPE MV-105 SHIELDED COPPER EPR 133% INS LEVEL SUN RES FOR CT USE DIRECT BURIAL UL E231073

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Terms & Conditions

1.Quotations
a) Quotations on products from inventory are for immediate acceptance and price is subject to product availability and copper fluctuations.
b) Quotations for specially manufactured products are valid for 30 days.

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 inventory items are for immediate availability and products are subject to prior sale.

3.Minimum Order - $1000

4.Order Acceptance
a) No Purchase Order shall be binding unless and until of ficially accepted in writing by TF. Any terms and conditions of the Purchase Order which are in addition to or inconsistent with TF terms and conditions shall not be binding and shall not apply to the transaction, unless specifically agreed to in writing by TF.
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.

5.Product Backorders
a) Product backorders are accepted at original order price providing the confirmed availability is within 4 weeks of order placement
b) Backorders beyond the known availability will be subject to current price in effect at time of shipment.

6.Copper Pricing Adjustments
a) Unless otherwise negotiated, manufactured orders shipping from TF Factories 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 invoicing.
b) W arehouse orders are adjusted to the current market price level at time of order.

7.Other Raw Materials Adjustments
Prices are subject to other raw material increases
and pricing may be revised after expiration of the quote acceptance period.

8.Quantity Variations
a) Shipments from TF Kable Factories are set at a quantity tolerance of +/- 10%.
b) Shipments from TF warehouse are set at a quantity tolerance of -0% to +3%.

9.Shipping and Delivery Schedule
Projected shipping and delivery schedule is a best estimate based on current conditions. TF assumes no liability for loss, damage or consequential damages due to delays.

10.Payment Terms
a) Factory direct shipments are net 75 days from date of invoice
b) W arehouse shipments are net 30 days from date of invoice

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

12.Returns – Standard Inventory Product
a) Applications for returning material are to be made within 30 days of receipt
b) Customer specified cut lengths are non-returnable
c) No returns will be accepted without a return authorization
d) 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.
e) Restocking charges will apply and will be set at the time of RMA request.

13.Returns – Factory Direct Shipments and Specially Manufactured Products
Factory direct shipments and specially manufactured products are non-returnable

14.Freight Policy – Warehouse Shipments
a) **Economy freight** - applies to orders $3,000 - $15,000. Most economical delivery will be provided at TFCA's expense. Customer has an option to upgrade to more expedited freight for an additional charge.
Standard freight - applies to orders over $15,000. Most common carriers transit times apply. Reasonable care is exercised in packing products for shipment, and TF assumes no responsibility for delay, breakage or damage after having made delivery in good order to the carrier.
b) Freight costs are calculated on point-to-point delivery by enclosed common carrier van to a standard truck-height loading dock

15.Freight Methods – Warehouse Shipments
a) Prepaid and Allowed – FOB Destination, Best Way TF selected carrier.
b) Prepaid and Charge – FOB Shipping Point, Best W ay by customer-selected carrier from list of TF approved carriers.
c) Freight Collect – FOB Shipping Point, Best W ay by customer selected carrier. Customer provides TF with accurate freight-collect account numbers.

16.Special Freight Conditions
a) Expedited Shipping including Guaranteed Delivery – TF must specifically accept in writing on confirming order and shipment is made by TF selected carrier. Customer is responsible for all additional costs.
b) Accessorial service charges will apply upon special shipping requests or additional costs incurred when making delivery including but not limited to Lift Gate Service, Redelivery, Waiting Time, Storage, Re-consignment, Diversion, Transloading, Residential Delivery, Saturday delivery.
c) Special restrictive conditions regarding loading or unloading, weight and equipment limitations will be communicated to TF at time of order.

17.Inspection for Damage and Shortages
a) All shipments from TF should be inspected for possible freight damage or shortage prior to acceptance.
b) Damaged or shortage should be specifically noted on bill of lading and packing slip at time of delivery.
c) Applications for invoice adjustment due to damage or shortages are required to be submitted no later than 30 days from receipt.
d) Damage or shortage claims must be accompanied by the driver's copy of the delivery receipt noting the specific items claimed.
e) Unless specifically authorized otherwise, claims are not to be deducted from the original invoice but will be processed on a separate credit memo.

18.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.

19.Reels
a) Cables are supplied on non-returnable wooden reels for domestic use within North America. Reel size and reel capacity will be determined by TF
b) Reels, Palletized Boxes and Coils will have a weather protecting wrap
▪ Additional costs for customer specified packaging include but not limited to; IPPC reels and pallets, lagging and palletize reel cradling

20.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's conformance with the order requirements.
b) Catalog sheets are considered accurate but may have typographical errors or inadvertent omissions of information. TF 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 Kable 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 Kable. 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 Kable 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 Kable.
- If claim is after installation user shall provide TF Kable 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 Kable inspect the product and all receiving and installation documents.
- The warranty notice shall be directed at the following address:

TELE-FONIKA Cable Americas
555 Remington Blvd., Suite A
Bolingbrook, Illinois 60440
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.

Notes

All the information in this document – including tables and diagrams – is given in good faith and believed to be correct at the time of publication. The information does not constitute a warranty nor representation for which TELE-FONIKA Kable assumes legal responsibility. TELE-FONIKA Kable reserves rights to introduce changes to the document at any time

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