



DIRECT WIRE

INDUSTRIAL

BULK & REELED CABLE PRODUCTS

The Direct Difference

Direct Wire is a multi-generation family business specializing in the manufacture of high-performance, industrial-grade wire and cable products for electrical transmission and power distribution applications. Every day, we set out to exceed our customers' expectations through superior service and customer focus, state-of-the-art technology and manufacturing capabilities, and our employees' commitment to embrace the values and vision of our company.



1977

ESTABLISHED
IN DENVER, PA

125+

EMPLOYEES
NATIONWIDE

Multi

GENERATION
FAMILY-OWNED

40+

YEARS OF
EXPERIENCE

Service Above All

With millions of wire and cable footage manufactured annually for a wide variety of industries, we rigorously monitor and test all products to ensure they meet the highest quality standards, leverage functional partnerships to create meaningful solutions, respond and adapt to our customers' evolving needs, and strive to deliver a positive experience every time.



Technology That Performs

Advanced equipment and an agile, scalable infrastructure provide us with in-house capabilities to manufacture products with construction quality that is unmatched in the marketplace, including higher copper stranding and tighter outside diameters, exceptional durability and resistance characteristics, and superior electrical conductivity and flexibility.

People Who Care

We understand that our people are the face of Direct Wire and recognize the value of their individual and collective contributions. That is why we remain committed to hiring, training, and rewarding the best and brightest. Working hard, sharing knowledge, offering support, and caring for each other—that is how Direct Wire is building a great American company.

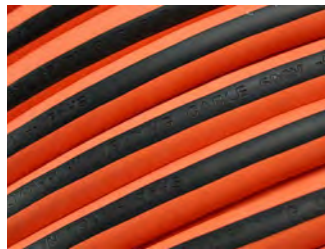


A History of INNOVATION



Growing demand for Direct's Flex-A-Prene product sees the company add standard and custom color options to the popular welding cable. Customers were now able to quickly identify owned cables on the job site, bring branding elements into their operation, and assign colors for specific functions or safety.

1998



The first version of Ultra-Flex® launches with its signature orange jacketing and industry-best flexibility characteristics. The new product is an immediate success within high-flex applications, including pipeliners, robotics, and constrained spaces.

1999



To answer customer demand for ready-to-use products, Direct develops a seamless process to offer precision-cut cable lengths that eliminate in-the-field, inaccurate, and messy cuts while saving time and labor costs.

2003



Direct becomes the first manufacturer to incorporate SAE J1127 requirements into its welding cable, requiring minimum copper amounts per gauge, appropriate sizing for specific applications, and testing for mechanical and performance characteristics.

2010



At Direct Wire, we have a proud tradition of innovation and pioneering spirit that keeps us at the forefront of product development, service excellence, and continuous improvement. From humble beginnings – mailing cable samples from the garage of owner, Richard Witwer – to the commissioning of our newest, state-of-the-art oxygen-free copper mill, Direct Wire remains committed to pushing toward the future.

We're proud of Direct Wire's history of success and the creativity and ingenuity of our employees who have made it possible. Below is more recent proof of how our team of visionaries and trailblazers has redefined innovation within the wire and cable industry.



Adhering to ethical and sustainable operations, Direct introduces its unique Copper Recycling Program to provide a competitive scrap return solution for customers. The convenient process offers simple and consistent credit rates based on COMEX marketing pricing.

2012



Direct integrates Quick Print® capabilities into its long- and short-run manufacturing processes allowing customizable ink printing along the outer cable jacketing to help company branding, identify cable types, and deter theft.

2013



Direct becomes the first wire and cable manufacturer in the US to integrate Super Steam curing processes into its CV lines. The cutting-edge technology utilizes reduced pressure and optimal heat levels to manufacture superior-quality dual pass and multi-conductor cables.

2014



Direct opens a new state-of-the-art oxygen-free copper rod mill, an advanced facility equipped with the oxygen-free copper upcasting process. This major milestone represents an expansion into a new market, producing high-quality oxygen-free copper rod and stems to meet customers' evolving needs worldwide.

2024

3284 / CL1254

INTERCONNECTION BATTERY CABLE



Applications

Direct's 3284 / CL1254 is a highly versatile cable suitable for use within battery, welding, motor leads, appliance internal wiring, industrial battery chargers, uninterruptible power supply (UPS) systems, and other wire harness applications. 3284 / CL1254 is UL and cRUus listed, CSA approved, RoHS compliant, and manufactured in the USA.

Construction

- Rope-lay, bunch-stranded 30 AWG 99.99% oxygen-free electronic (OFE) high-purity copper conductor; bare or tinned ASTM Class K copper
- Wrapped paper separator
- Jacketed with LSHF EPR compound

[See reverse for construction details and technical specifications](#)

3284 / CL1254 | INTERCONNECTION BATTERY CABLE

AWG SIZE	STRANDING	INSULATION THICKNESS		OUTSIDE DIAMETER		LBS PER 1,000'
	/ DIAM (OR) GA	INCHES	MM	INCHES	MM	
#6	273 / 30	.080	2.03	.370	9.40	129
#4	429 / 30	.080	2.03	.420	10.67	189
#2	676 / 30	.080	2.03	.475	12.07	270
#1	845 / 30	.095	2.41	.544	13.82	346
1 / 0	1,066 / 30	.095	2.41	.581	14.76	418
2 / 0	1,339 / 30	.095	2.41	.630	16.00	514
3 / 0	1,677 / 30	.095	2.41	.688	17.48	631
4 / 0	2,109 / 30	.095	2.41	.746	18.95	776

All data and specifications contained herein are current and subject to change without notification. All values are nominal and/or approximate and may vary. All styles and standards dependent on conductor size.



3284 / CL1254 INTERCONNECTION BATTERY CABLE

TECHNICAL SPECIFICATIONS

Construction

Conductors	<ul style="list-style-type: none">Rope-lay, bunch-stranded 30 AWG 99.99% oxygen-free electronic (OFE) high-purity copper conductor; bare or tinned ASTM Class K copper
Voltage Rating	<ul style="list-style-type: none">600 V
Insulation & Jacket	<ul style="list-style-type: none">Wrapped paper separatorJacketed with low-smoke, halogen-free EPR compoundResistant to abrasion, battery acid, diesel fuel, engine coolant, engine oil, ethanol, extreme temperatures, flame, gasoline, power-steering fluid, and transmission fluid
Temperature Range	<ul style="list-style-type: none">3284; -50°C (-58°F) to 125°C (257°F) DryCL1254; -30°C (-22°F) to 125°C (257°F) Dry

Standards & Certifications

Industry Approvals	<ul style="list-style-type: none">UL 758, 1581, and 2556CSA C22.2 No. 127 and No. 2556ASTM B3, B33, B49, B172, and B263cRUus ListedFT-1 and FT-2CMRT and Prop 65 Compliant
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Standard Stock

Available Lengths	<ul style="list-style-type: none">Coils/Assemblies at 25', 50', and 100'Reels at 250', 500', 1,000', and 2,500'Custom lengths available upon request
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Customization

Jacket Colors	<ul style="list-style-type: none">● Black (standard)
Marking Options	<ul style="list-style-type: none">Quick Print®; Surface Print; Indent Print; Logo/Icon; Sequential Marking

3311 / 3279 / CL905

INTERCONNECTION BATTERY CABLE



Applications

Direct's 3311 / 3279 / CL905 is a versatile battery cable suitable for interconnection between terminals and starters or grounds. It is also commonly used in welding applications, motor leads, appliance wiring, and UPS systems. 3311 / 3279 / CL905 is UL and cRUus listed, CSA approved, RoHS compliant, and manufactured in the USA.

Construction

- Rope-lay, bunch-stranded 30 AWG 99.99% oxygen-free electronic (OFE) high-purity copper conductor; bare or tinned ASTM Class K copper
- Wrapped paper separator
- Jacketed with EPDM compound

[See reverse for construction details and technical specifications](#)

3311 / 3279 / CSA CL905 | INTERCONNECTION BATTERY CABLE

AWG SIZE	# COND STRAND / DIAM(OR) GA	NOMINAL INSULATION THICKNESS		NOMINAL OUTSIDE DIAMETER		APPROX LBS PER 1K'
		INCHES	MM	INCHES	MM	
#8	182 / 30	.080	2.03	.326	8.28	92
#6	273 / 30	.080	2.03	.370	9.40	128
#4	429 / 30	.080	2.03	.420	10.67	187
#2	676 / 30	.080	2.03	.475	12.07	267
#1	845 / 30	.095	2.41	.544	13.82	344
1 / 0	1,066 / 30	.095	2.41	.581	14.76	416
2 / 0	1,339 / 30	.095	2.41	.630	16.00	511
3 / 0	1,677 / 30	.095	2.41	.688	17.48	628
4 / 0	2,109 / 30	.095	2.41	.746	18.95	773
250 MCM	2,527 / 30	.095	2.41	.810	20.57	926

All data and specifications contained herein are current and subject to change without notification. All values are nominal and/or approximate and may vary. All styles and standards dependent on conductor size.

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3311 / 3279 / CL905 BATTERY CABLE

TECHNICAL SPECIFICATIONS

Construction

Conductors	<ul style="list-style-type: none">Rope-lay, bunch-stranded 30 AWG copper conductor; bare or tinned ASTM Class K 99.99% oxygen-free electronic (OFE) high-purity copper
Voltage Rating	<ul style="list-style-type: none">600 V
Insulation & Jacket	<ul style="list-style-type: none">Wrapped paper separatorJacketed with EPDM compoundResistant to abrasion, battery acid, crushing force, diesel fuel, engine coolant, engine oil, ethanol, extreme temperatures, flame, gasoline, power-steering fluid, and transmission fluid
Temperature Range	<ul style="list-style-type: none">3311; -50°C (-58°F) to 90°C (194°F)3279; -50°C (-58°F) to 105°C (221°F)CL905; -30°C (-22°F) to 90°C (194°F)

Standards & Certifications

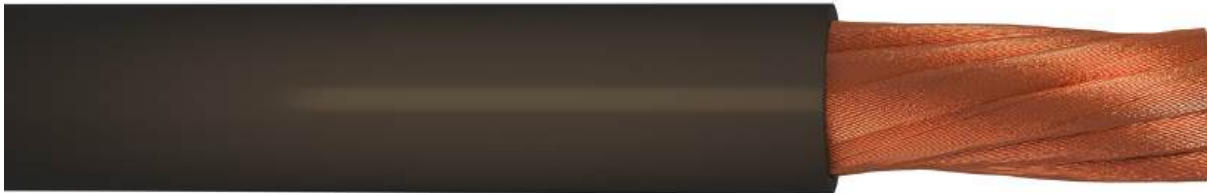
Industry Approvals	<ul style="list-style-type: none">UL 758 Appliance Wiring MaterialMeets battery cable requirements per:<ul style="list-style-type: none">UL 558 and UL 583UL 1581 and 2556CSA C22.2 No. 127 and No. 2556	<ul style="list-style-type: none">ASTM B3, B33, B49, and B172cRUus ListedFT-1 and FT-2REACH, RoHS, CMRT, and Prop 65 Compliant
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Standard Stock

Available Lengths	<ul style="list-style-type: none">Coils/Assemblies at 25', 50', 100', and 250'Reels at 500', 1,000', and 2,500'Custom lengths available upon request
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Customization

Jacket Colors	<ul style="list-style-type: none">● Black (standard) ● Blue ● Green ● Red ● Yellow ● Orange
Sample Print Legend	<ul style="list-style-type: none">{AWG Size} cRUus {E#} AWM 3311 90°C 3279 105°C 600V FT-2 - - - {AWG Size} cRUus {E#} CL905 90°C -30°C 600V FT-1
Marking Options	<ul style="list-style-type: none">Quick Print®; Surface Print; Indent Print; Logo/Icon; Sequential Marking



APPLICATIONS

All-Flex® is an incredibly versatile cable product often referred to as UL 1283, UL 1284, MTW, THW, or lead wire. It is designed for internal and external wiring, uninterruptible power supplies, transformers, controls, battery chargers, leads, and various other industrial and OEM applications.

QUICK SPECS

- 30 AWG ASTM Class K Bare 99.99% oxygen-free electronic (OFE) high-purity copper
- PVC Insulation
- #8 – 500 MCM
- 600 V / 1,000 V
- -50°C – 75°C (Wet) / 105°C (Dry)
- UL / cRUus / CSA / CT Use / ASTM / SAE / ABYC / FT

See reverse for full construction details and technical specifications

ALL-FLEX® | UL 1283 / UL 1284 / MTW / THW / LEAD WIRE

AWG SIZE	STRANDING	INSULATION THICKNESS		OUTSIDE DIAMETER		AMPACITY ¹	LBS PER 1K'
	/ DIAM (OR) GA	IN	MM	IN	MM		
#8	182 / 30	.060	1.52	.270	6.86	80 A	77
#6	273 / 30	.060	1.52	.315	8.00	105 A	111
#4	429 / 30	.060	1.52	.350	8.89	140 A	164
#3	533 / 30	.060	1.52	.377	9.57	165 A	206
#2	676 / 30	.060	1.52	.419	10.64	190 A	246
#1	845 / 30	.080	2.03	.490	12.45	220 A	320
1 / 0	1,066 / 30	.080	2.03	.530	13.46	260 A	392
2 / 0	1,339 / 30	.080	2.03	.579	14.71	300 A	485
3 / 0	1,677 / 30	.080	2.03	.632	16.05	350 A	596
4 / 0	2,109 / 30	.080	2.03	.695	17.65	405 A	741
250 MCM	2,527 / 30	.100	2.54	.793	20.14	455 A	916
350 MCM	3,478 / 30	.100	2.54	.915	23.24	570 A	1,242
500 MCM	5,054 / 30	.100	2.54	1.130	28.70	700 A	1,815

¹ Allowable ampacity per NFPA 70 / NEC Article 310. Values are based on ambient temperature of 30°C.

TECHNICAL SPECIFICATIONS

CONSTRUCTION

Conductors	<ul style="list-style-type: none">30 AWG ASTM Class K 99.99% oxygen-free electronic (OFE) high-purity bare copper; Rope-lay, bunch-stranded single conductor
Voltage Rating	<ul style="list-style-type: none">600 V / 1,000 V (AWM Style 10269)
Insulation	<ul style="list-style-type: none">PVC compound
Resistance Properties	<ul style="list-style-type: none">Battery acid, crushing force, diesel fuel, engine coolant, engine oil, ethanol, extreme temperatures, lams, gasoline, power-steering fluid, and transmission fluid
Temperature Range	<ul style="list-style-type: none">-50°C to 75°C (Wet) / 105°C (Dry)

STANDARDS & CERTIFICATIONS

Industry Approvals	<ul style="list-style-type: none">UL 758 (AWM Styles 1232, 1283, 1284, 1337, 1338, 1339, 1581, 2556, 10070, and 10269)UL 83 (THW, TW75, and THHW)UL 1063 (MTW)UL 1426 (BC5W2)UL 1581 and UL 2556CSA C22.2 No. 75 (TW75), No. 127 (TEW), No. 210 (AWM), and No. 2556cRUus RecognizedASTM B3, B49, and B172SAE J1127 Type SGTNEC (NFPA 70)	<ul style="list-style-type: none">CEC (CSA C22.1)ABYC E-11 (AC/DC - Electrical Boat Systems)33-CFR-Subchapter SFT-1, FT-2, and FT-4For CT USE (1/0 AWG and Larger)75°C Wet Temp Rating (Water-Res)60°C Oil Temp Rating (Oil-Res)720 Hour UV Rating (Sun-Res)
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STANDARD STOCK

Available Lengths	<ul style="list-style-type: none">Reels at 250' / 500' / 1,000' / 2,500'Coils at 25' / 50' / 100'Custom lengths available upon request
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CUSTOMIZATION

Jacket Colors	<ul style="list-style-type: none">● Black (standard) ● Blue ● Green ● Red ● Yellow ● Orange
Marking Options	<ul style="list-style-type: none">Quick Ink Print; Surface Ink Print; Indent Print; Sequential Footage Marking; Private Labeling / Branding

BOOSTER / DUPLEX

BATTERY BOOSTER CABLE



Applications

Direct's Booster/Duplex is an industrial grade, heavy-duty battery booster cable primarily used for interconnection between batteries when jump-starting is required. Booster/Duplex meets SAE J1127 Type SGT (starter or ground; general purpose; thermoplastic insulated), RoHS compliant, and is manufactured in the USA.

Construction

- Rope-lay, bunch-stranded 30 AWG SAE 99.99% oxygen-free electronic (OFE) high-purity copper conductors (2); color-coded for polarity
- Jacketed with high-quality TPE compound See reverse for technical specifications

BOOSTER / DUPLEX | BATTERY BOOSTER CABLE

AWG SIZE & # COND	# COND STRANDS / DIAM (OR) GA	BRIDGE WIDTH & THICKNESS		NOMINAL WALL THICKNESS		NOMINAL OUTSIDE DIAMETER (+JACKET)	
		INCHES	MM	INCHES	MM	INCHES	MM
#8 - 2C	182 / 30	.030	.762	.060	1.52	.278	7.06
#6 - 2C	260 / 30	.060	1.52	.080	2.03	.335	8.51
#4 - 2C	364 / 30	.060	1.52	.080	2.03	.371	9.42
#2 - 2C	624 / 30	.060	1.52	.080	2.03	.453	11.51
#1 - 2C	767 / 30	.060	1.52	.080	2.03	.481	12.22
1 / 0 - 2C	975 / 30	.060	1.52	.080	2.03	.526	13.36

All data and specifications contained herein are current and subject to change without notification. All values are nominal and/or approximate and may vary. All styles and standards dependent on conductor size.



BOOSTER / DUPLEX BATTERY BOOSTER CABLE

TECHNICAL SPECIFICATIONS

Construction

- | | |
|---------------------|---|
| Conductors | <ul style="list-style-type: none">Rope-lay, bunch-stranded 30 AWG SAE 99.99% oxygen-free electronic (OFE) high-purity copper conductors(2); color-coded for polarity |
| Voltage Rating | <ul style="list-style-type: none">60 V |
| Insulation & Jacket | <ul style="list-style-type: none">Jacketed with TPE compoundTangle-free flexibilityResistant to battery acid, diesel fuel, engine coolant, engine oil, ethanol, extreme temperatures, flame, gasoline, power-steering fluid, and transmission fluid |
| Temperature Range | <ul style="list-style-type: none">-50°C (-58°F) to 105°C (221°F) |
-


Standards & Certifications

- | | |
|--------------------|---|
| Industry Approvals | <ul style="list-style-type: none">SAE J1127 Type SGTRoHS CompliantProp 65 Compliant |
|--------------------|---|
-

Standard Stock

- | | |
|-------------------|--|
| Available Lengths | <ul style="list-style-type: none">Coils/Assemblies at 25', 50', 100', and 250'Reels at 500', 1,000', and 2,500'Custom lengths available upon request |
|-------------------|--|
-

Customization

- | | |
|---------------------|---|
| Jacket Colors | <ul style="list-style-type: none"> Black / Red |
| Sample Print Legend | <ul style="list-style-type: none">{AWG SIZE} BATTERY BOOSTER CABLE -50°C + 105°C MADE IN THE USA SAE J1127 RoHS |
| Marking Options | <ul style="list-style-type: none">Quick Print®; Surface Print; Indent Print; Logo/Icon; Sequential Marking |

DLO (2000V) RHH/RHW-2 (2000V) RW90 (1000V)



Industrial Grade Portable Power Cables 90°C



APPLICATIONS

Direct's DLO is a heavy-duty flexible power cable designed for use within portable or fixed installations, diesel engines and motor leads, generators, battery leads, and other industrial applications, including shipyards, drilling rigs, construction, renewable energy, and data centers. DLO is UL listed RHH / RHW-2, CSA listed RW90, MSHA approved, marked FOR CT USE and manufactured in the USA.

QUICK SPECS

- 24 AWG ASTM Class I tinned copper
- EPDM (Insulation) / CPE (Jacket)
- #8 AWG - 535 MCM
- 600 / 1,000 / 2,000 V
- -40°C to +90°C
- Marked FOR CT USE (1/0 AWG and larger)
- UL / CSA / MSHA / NFPA NEC / ASTM

See reverse for construction details and technical specifications

DLO PRODUCT CONFIGURATIONS

AWG / MCM SIZE	CONDUCTOR STRANDING/GAUGE	CONDUCTOR DIAMETER (in)	NOMINAL INSULATION	NOMINAL JACKET	OVERALL DIAMETER (in)	CABLE WEIGHT (lb / 1000 FT)	AMPACITY ¹ at 30°C
#8	41 / #24	.153	.070	.030	.384	110	80 A
#6	61 / #24	.185	.070	.030	.416	146	105 A
#4	105 / #24	.250	.070	.030	.481	205	140 A
#2	168 / #24	.305	.070	.045	.569	311	190 A
#1	224 / #24	.350	.090	.045	.660	415	220 A
1 / 0	273 / #24	.392	.090	.045	.702	472	260 A
2 / 0	323 / #24	.440	.090	.045	.750	564	300 A
3 / 0	456 / #24	.500	.090	.045	.810	742	350 A
4 / 0	551 / #24	.570	.090	.065	.924	879	405 A
262 MCM	646 / #24	.627	.105	.065	1.016	1,081	468 A
313 MCM	777 / #24	.695	.105	.065	1.084	1,265	525 A
373 MCM	925 / #24	.750	.105	.065	1.139	1,464	588 A
444 MCM	1,110 / #24	.820	.105	.065	1.209	1,685	655 A
535 MCM	1,332 / #24	.895	.120	.065	1.318	2,025	731 A

¹Allowable ampacity per NFPA 70 / NEC Article 400. Values are based on ambient temperature of 30°C.



DLO / RHH / RHW-2 / RW90

TECHNICAL SPECIFICATIONS

CONSTRUCTION

Conductors Voltage	<ul style="list-style-type: none">• Rope-lay, bunch-stranded 24 AWG ASTM Class I tinned copper
Rating	<ul style="list-style-type: none">• DLO (2000V)• RHH/RHW-2 (600V and 2000V)• RW90 (1000V)
Separator	<ul style="list-style-type: none">• Tape separator between conductor and insulation
Insulation & Jacket	<ul style="list-style-type: none">• Insulated with EPDM compound• Jacketed with CPE thermosetting compound• Resistant to abrasion, crushing force, extreme temperatures, flame, impact, oil, sunlight, and water. FOR CT USE (1/0 AWG and Larger). FT-1, FT-2, and FT-5.• UL tested 60°C oil resistant temperature rating• UL tested 720 hours sunlight resistance rating
Temperature Range	<ul style="list-style-type: none">• -40°C - +90°C (dry) / +90°C (wet)
Jacket Colors	<ul style="list-style-type: none">• ● Black (standard) / Custom colors upon request

STANDARDS & CERTIFICATIONS

Industry Approvals	<ul style="list-style-type: none">• UL 2806 Listed DLO under E481911• UL 44 Listed RHH/RHW-2 under E481401• CSA Listed RW90 under 300528• MSHA Approved under 07-KA200007	<ul style="list-style-type: none">• ASTM B33, B172 or B174• NFPA 70 / NEC• CSA C22.2 No. 38 and 2556• CSA C22.1 / CEC• 30-CFR-Part 7 Subchapter K• CMRT and Prop 65 Compliant
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MARKING

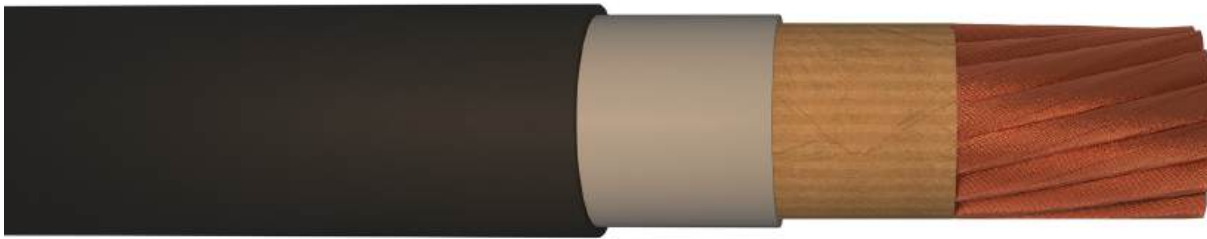
Standard Legend	<p>#1 AWG and smaller DIRECT (UL) E481911 {SIZE} DLO-HDFPC 2000V SR PR I 90C DRY 90C WET or RHH or RHW-2 2000V FT2 -40C PR I --- (CSA) 300528 {SIZE} RW90 -40C 90C DRY 90C WET 1000V PR I FT1 VW-1 SR GR I --- FT5 P-07-KA200007-MSHA</p> <p>1/0 AWG and larger DIRECT (UL) E481911 {SIZE} DLO-HDFPC 2000V SR PR I 90C DRY 90C WET or RHH or RHW-2 2000V FT2 -40C PR I FOR CT USE --- (CSA) 300528 {SIZE} RW90 -40C 90C DRY 90C WET 1000V PR I FT1 VW-1 SR GR I --- FT5 P-07-KA200007-MSHA</p>
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Print Options	<ul style="list-style-type: none">• Ink Wheel / Ink Jet / Sequential Footage
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DURA-FLEX®

TYPE W POWER CABLE



Applications

Direct's Dura-Flex® Type W is an industrial grade, portable power cable primarily used for permanent or temporary power supply. Durable and versatile, the cable is also commonly deployed for heavy-use applications, including rental, mining, A/C systems, and motor battery leads. Dura-Flex is UL and cULus listed, and manufactured in the USA.

Construction

- Rope-lay, bunch-stranded 30 AWG 99.99% oxygen-free electronic (OFE) high-purity copper conductor; bare ASTM Class K OFE copper
- Separators: paper (conductor) and mesh (insulation)
- Insulated with LSHF EPDM compound
- Jacketed with proprietary CPE compound

See reverse for technical specifications

DURA-FLEX | TYPE W POWER CABLE

AWG SIZE	STRANDING	INSULATION THICKNESS		OUTSIDE DIAMETER		AMPACITY ¹	LBS PER 1,000'
	/ DIAM(OR) GA	INCHES	MM	INCHES	MM		
#6	273 / 30	.095	2.41	.503	12.78	105 A	188
#4	429 / 30	.095	2.41	.549	13.94	140 A	253
#2	676 / 30	.095	2.41	.620	15.75	190 A	350
#1	845 / 30	.095	2.41	.688	17.48	220 A	436
1 / 0	1,066 / 30	.095	2.41	.740	18.80	260 A	523
2 / 0	1,339 / 30	.095	2.41	.794	20.17	300 A	631
3 / 0	1,677 / 30	.095	2.41	.830	21.08	350 A	740
4 / 0	2,109 / 30	.095	2.41	.906	23.01	405 A	908

¹Allowable ampacity per NFPA 70 / NEC Article 400. Values are based on ambient temperature of 30°C.



DURA-FLEX[®] TYPE W POWER CABLE

TECHNICAL SPECIFICATIONS

Construction

Conductors	<ul style="list-style-type: none">Rope-lay, bunch-stranded 30 AWG 99.99% oxygen-free electronic (OFE) high-purity copper conductor; bare ASTM Class K OFE copper
Voltage Rating	<ul style="list-style-type: none">600 V; 2,000 V
Insulation & Jacket	<ul style="list-style-type: none">Separators: paper (conductor) and mesh (insulation)Insulated with low-smoke, halogen-free EPDM compoundJacketed with proprietary CPE compoundResistant to abrasion, crushing force, extreme temperatures, flame, impact, oil, sunlight, and waterUL tested 60°C (140°F) oil resistant temperature ratingUL tested 720 hours sunlight resistance rating
Temperature Range	<ul style="list-style-type: none">-40°C (-40°F) to 90°C (194°F) Dry; 90°C (194°F) Wet

Standards & Certifications

Industry Approvals	<ul style="list-style-type: none">UL 44, 1650, and 2556cULus ListedASTM B3, B49, and B172MSHA ApprovedFT-1, FT-2, and FT-5RHH / RHW / RHW-2
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Standard Stock

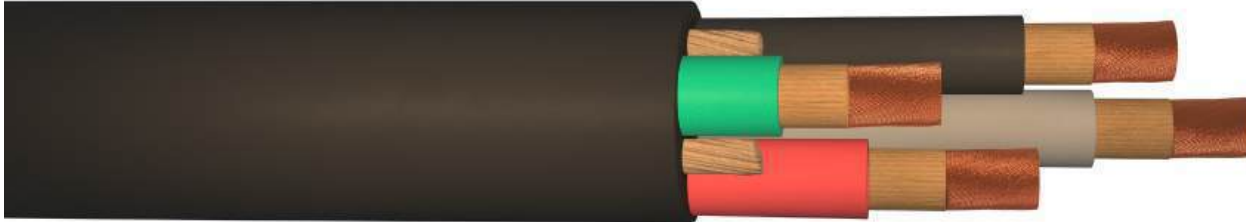
Available Lengths	<ul style="list-style-type: none">Coils/Assemblies at 25', 50', and 100'Reels at 250', 500', 1,000', and 2,500'Custom lengths available upon request
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Customization

Jacket Colors	<ul style="list-style-type: none">● Black (standard) ● Blue ● Brown ● Green ● Orange ● Red ○ White ● Yellow
Marking Options	<ul style="list-style-type: none">Quick Print[®]; Surface Print; Indent Print; Sequential Marking; Color Stripe

DURA-FLEX® TYPE W

MULTI-CONDUCTOR POWER CABLE



Applications

Direct's Dura-Flex® Type W is an industrial grade, portable power cable primarily used for permanent or temporary power supply. Featuring 2, 3, and 4 multi-conductor configurations with uniquely colored conductors and a round profile with a bound core, this cable ensures both durability and flexibility in various applications. Durable and versatile, the cable is also commonly deployed for heavy-use applications, including rental, mining, A/C systems, motor battery leads. Dura-Flex® is UL listed, and manufactured in the USA.

Construction

- Rope-lay, bunch-stranded 30 AWG 99.99% oxygen-free electronic (OFE) high-purity copper conductor; bare ASTM Class K OFE copper
- Separators: paper (conductor) and mesh (insulation)
- Insulated with EPDM compound
- Jacketed with proprietary CPE compound

[See reverse for construction details and technical specifications](#)

TYPE W | MULTI-CONDUCTOR POWER CABLE

AWG SIZE / # OF COND	COND STRANDS / DIAM (OR) GA	COND WALL THICKNESS (NOM)		JACKET THICKNESS (NOM)		OUTSIDE DIAMETER (NOM)		AMPACITY ¹ (amps)	APPROX LBS PER 1K'
		INCHES	MM	INCHES	MM	INCHES	MM		
8 / 2	182 / 30	0.060	1.52	0.109	2.77	0.778	19.76	74	349
8 / 3	182 / 30	0.060	1.52	0.141	3.58	0.886	22.50	65	514
8 / 4	182 / 30	0.060	1.52	0.141	3.58	0.959	24.36	52	635
6 / 2	273 / 30	0.060	1.52	0.109	2.77	0.868	22.05	99	457
6 / 3	273 / 30	0.060	1.52	0.141	3.58	0.983	24.97	87	645
6 / 4	273 / 30	0.060	1.52	0.141	3.58	1.067	27.10	69	803
4 / 2	429 / 30	0.060	1.52	0.109	2.77	0.938	23.83	130	583
4 / 3	429 / 30	0.060	1.52	0.125	3.18	1.026	26.06	114	794
4 / 4	429 / 30	0.060	1.52	0.125	3.18	1.120	28.45	91	1006
2 / 2	676 / 30	0.060	1.52	0.141	3.58	1.140	28.96	174	909
2 / 3	676 / 30	0.060	1.52	0.141	3.58	1.207	30.66	152	1,215
2 / 4	676 / 30	0.060	1.52	0.125	3.18	1.287	32.69	121	1,476

¹Allowable ampacity per NFPA 70 / NEC Article 400. Values are based on ambient temperature of 30°C.

All data and specifications contained herein are current and subject to change without notification. All values are nominal and/or approximate and may vary.



DURAFLEX[®] TYPE W MULTI-CONDUCTOR POWER CABLE

TECHNICAL SPECIFICATIONS

Construction

- | | |
|---------------------|---|
| Conductors | <ul style="list-style-type: none">Rope-lay, bunch-stranded 30 AWG 99.99% oxygen-free electronic (OFE) high-purity copper conductor; bare ASTM Class K OFE copper |
| Voltage Rating | <ul style="list-style-type: none">600 V; 2,000 V |
| Insulation & Jacket | <ul style="list-style-type: none">Separators: Paper insulation & mesh jacketFiller Type: twisted paperInsulated with low-smoke, halogen-free EPDM compoundJacketed with proprietary CPE compoundResistant to abrasion, crushing force, extreme temperatures, flame, impact, oil, sunlight, and waterUL tested 60°C (140°F) oil resistant temperature ratingUL tested 720 hours sunlight resistance rating |
| Temperature Range | <ul style="list-style-type: none">-40°C (-40°F) to 90°C (194°F) Dry; 90°C (194°F) Wet |

Standards & Certifications

- | | |
|--------------------|---|
| Industry Approvals | <ul style="list-style-type: none">UL 44, 1650, and 2556ASTM B3, B49, and B172MSHA ApprovedFT-1, FT-2, FT-5 |
|--------------------|---|

Standard Stock

- | | |
|-------------------|--|
| Available Lengths | <ul style="list-style-type: none">Reels at 250', 500', 1,000', and 2,500'Custom lengths and assemblies available upon request |
|-------------------|--|

Customization

- | | |
|-----------------|---|
| Jacket Colors | <ul style="list-style-type: none">● Black (standard) ● Blue ● Brown ● Green ● Orange ● Red ○ White ● Yellow |
| Marking Options | <ul style="list-style-type: none">Surface Print; Indent Print; Sequential Marking; Color Stripe |



FLEX-A-PRENE®

INDUSTRIAL WELDING CABLE



Applications

Direct's Flex-A-Prene® is the industry's most recognized brand name of industrial welding cable. Highly durable and versatile, the cable is designed for use in stingers/whips, leads, and ground clamp welding assemblies as well as battery applications such as chargers and wire harnesses. Flex-A-Prene is SAE J1127 (#6 to 250 MCM) and RoHS compliant and manufactured in the USA.

Construction

- Rope-lay, bunch-stranded 30 AWG SAE copper conductor
- Wrapped paper separator
- Jacketed with proprietary LSHF EPDM compound

[See reverse for construction details and technical specifications](#)

FLEX-A-PRENE | INDUSTRIAL WELDING CABLE

AWG SIZE ¹	# COND STRAND / DIAM(OR) GA	NOMINAL INSULATION THICKNESS		NOMINAL OUTSIDE DIAMETER (+JACKET)		APPROX LBS PER 1K'
		INCHES	MM	INCHES	MM	
#8	182 / 30	.060	1.52	.280	7.11	80
#6	260 / 30	.060	1.52	.308	7.82	108
#4	364 / 30	.060	1.52	.343	8.71	147
#2	624 / 30	.060	1.52	.428	10.87	238
#1	767 / 30	.080	2.03	.488	12.40	299
1 / 0	975 / 30	.080	2.03	.533	13.54	369
2 / 0	1,196 / 30	.080	2.03	.568	14.43	443
3 / 0	1,547 / 30	.080	2.03	.618	15.70	556
4 / 0	1,950 / 30	.080	2.03	.688	17.48	696
250 MCM	2,432 / 30	.095	2.41	.806	20.47	900
350 MCM	3,330 / 30	.095	2.41	.908	23.06	1,203
500 MCM	4,847 / 30	.095	2.41	1.054	26.77	1,884
4/0 HD	1,950 / 30	.167	4.24	.860	21.84	810

¹SAE J1127 standard does not apply to #8 AWG, 350 MCM, 500 MCM, and 4/0 HD.

FLEX-A-PRENE® INDUSTRIAL WELDING CABLE

TECHNICAL SPECIFICATIONS

Construction

- | | |
|---------------------|--|
| Conductors | <ul style="list-style-type: none">Rope-lay, bunch-stranded 30 AWG SAE copper conductor |
| Voltage Rating | <ul style="list-style-type: none">600 V |
| Insulation & Jacket | <ul style="list-style-type: none">Wrapped paper separatorJacketed with proprietary low-smoke, halogen-free EPDM compoundResistant to abrasion, battery acid, diesel fuel, engine coolant, engine oil, ethanol, extreme temperatures, flame, gasoline, power-steering fluid, and transmission fluid |
| Temperature Range | <ul style="list-style-type: none">-50°C (-58°F) to 105°C (221°F) |
-

Standards & Certifications

- | | |
|--------------------|---|
| Industry Approvals | <ul style="list-style-type: none">SAE J1127 Compliant (#6 to 250 MCM)NEC Article 630 (Electric Welders)Suitable for battery use per UL 558 and 583REACH, RoHS, CMRT, and Prop 65 Compliant |
|--------------------|---|
-

Standard Stock

- | | |
|-------------------|--|
| Available Lengths | <ul style="list-style-type: none">Coils/Assemblies at 25', 50', 100', and 250'Reels at 500', 1,000', and 2,500'Custom lengths available upon request |
|-------------------|--|
-

Customization

- | | |
|---------------------|--|
| Jacket Colors | <ul style="list-style-type: none">● Black (standard) ● Blue ● Green ● Red ● Yellow ● OrangeCustom colors available upon request |
| Sample Print Legend | <ul style="list-style-type: none">{AWG SIZE} FLEX-A-PRENE WELDING CABLE 600V -50°C +105°C * MADE IN USA * RoHS * SAE J1127 |
| Marking Options | <ul style="list-style-type: none">Quick Print®; Surface Print; Indent Print; Logo/Icon; Sequential Marking |

TYPE SGR

INTERCONNECTION BATTERY CABLE



Applications

Direct's Type SGR is a durable and versatile battery cable designed for interconnection between battery terminals and starters or grounds in automotive and other vehicular applications (e.g. car, bus, truck, tractor, etc.). Type SGR is UL listed, compliant to RoHS and SAE J1127 standards, and manufactured in the USA.

Construction

- Rope-lay, bunch-stranded 30 AWG SAE 99.99% oxygen-free electronic (OFE) high-purity copper conductor
 - Wrapped paper separator
 - Jacketed with proprietary LSHF EPDM compound
- See reverse for construction details and technical specifications

TYPE SGR INTERCONNECTION BATTERY CABLE						
AWG SIZE	# COND STRAND / DIAM (OR) GA	NOMINAL INSULATION THICKNESS		NOMINAL OUTSIDE DIAMETER (+JACKET)		APPROX LBS PER 1K'
		INCHES	MM	INCHES	MM	
#6	260 / 30	.060	1.52	.305	7.74	110
#4	364 / 30	.065	1.65	.333	8.45	145
#2	624 / 30	.065	1.65	.415	10.54	235
#1	767 / 30	.065	1.65	.443	11.25	282
1 / 0	975 / 30	.065	1.65	.488	12.39	351
2 / 0	1,196 / 30	.065	1.65	.526	13.36	423
3 / 0	1,547 / 30	.078	1.98	.609	15.46	553
4 / 0	1,950 / 30	.078	1.98	.674	17.11	685

All data and specifications contained herein are current and subject to change without notification. All values are nominal and/or approximate and may vary. All styles and standards dependent on conductor size.

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TYPE SGR BATTERY CABLE

TECHNICAL SPECIFICATIONS

Construction

- | | |
|---------------------|--|
| Conductors | <ul style="list-style-type: none">Rope-lay, bunch-stranded 30 AWG SAE 99.99% oxygen-free electronic (OFE) high-purity copper conductor |
| Voltage Rating | <ul style="list-style-type: none">60 V DC; 25 V AC |
| Insulation & Jacket | <ul style="list-style-type: none">Wrapped paper separatorJacketed with proprietary low-smoke, halogen-free EPDM compoundResistant to abrasion, battery acid, diesel fuel, engine coolant, engine oil, ethanol, extreme temperatures, flame, gasoline, power-steering fluid, transmission fluid |
| Temperature Range | <ul style="list-style-type: none">-40°C (-40°F) to 105°C (221°F) (-50C imprinting available upon request) |

Standards & Certifications

- | | |
|--------------------|--|
| Industry Approvals | <ul style="list-style-type: none">UL ListedMeets battery cable requirements per:<ul style="list-style-type: none">UL 558 and UL 583UL 4127 (60 V DC; 25 V AC)SAE J1127 CompliantREACH, RoHS, CMRT, and Prop 65 Compliant |
|--------------------|--|

Standard Stock

- | | |
|-------------------|--|
| Available Lengths | <ul style="list-style-type: none">Coils/Assemblies at 25', 50', and 100'Reels at 250', 500', 1,000', and 2,500'Custom lengths available upon request |
|-------------------|--|

Customization

- | | |
|---------------------|--|
| Jacket Colors | <ul style="list-style-type: none">● Black (standard) ● Blue ● Green ● Red ● Yellow ● Orange |
| Sample Print Legend | <ul style="list-style-type: none">{AWG SIZE} SGR EXTRA FLEXIBLE BATTERY CABLE SAE J1127 -40°C +105°C MADE IN USA |
| Marking Options | <ul style="list-style-type: none">Quick Print®; Surface Print; Indent Print; Logo/Icon; Sequential Marking |

TYPE SGT

MULTI-PURPOSE BATTERY CABLE



Applications

Direct's Type SGT is a multi-purpose battery cable designed for use in automotive and vehicular applications (e.g. car, bus, truck, tractor, heavy equipment, etc.) as well as a variety of industrial environments. Type SGT is UL listed, meets SAE J1127 requirements, and manufactured in the USA.

Construction

- Rope-lay, bunch-stranded 99.99% oxygen-free electronic (OFE) high-purity bare copper conductor
- Available in Combination 133X & 30 AWG, 30 AWG, and 24 AWG standing
- Jacketed with PVC compound

See reverse for construction details and technical specifications

TYPE SGT | COMBINATION OF 133X & 30 AWG FLEXIBLE STRAND MULTI-PURPOSE BATTERY CABLE

AWG SIZE	# COND STRAND / DIAM(OR)GA	NOMINAL INSULATION THICKNESS		NOMINAL OUTSIDE DIAMETER (+JACKET)		APPROX LBS PER 1K'
		INCHES	MM	INCHES	MM	
#6	133 / .0140 (27)	.060	1.52	.312	7.92	111
#4	133 / .0170 (25)	.065	1.65	.363	9.22	158
#2	133 / .0218 (23)	.065	1.65	.428	10.87	243
#1	767 / .0100 (30)	.065	1.65	.456	11.58	288
1 / 0	975 / .0100 (30)	.065	1.65	.501	12.72	359
2 / 0	1196 / .0100 (30)	.065	1.65	.539	13.69	432
3 / 0	1547 / .0100 (30)	.078	1.98	.625	15.86	564
4 / 0	1950 / .0100 (30)	.078	1.98	.690	17.52	699

TYPE SGT | 30 AWG MULTI-PURPOSE BATTERY CABLE

AWG SIZE	# COND STRAND / DIAM(OR)GA	NOMINAL INSULATION THICKNESS		NOMINAL OUTSIDE DIAMETER (+JACKET)		APPROX LBS PER 1K'
		INCHES	MM	INCHES	MM	
#6	260 / .0100 (30)	.060	1.52	.307	7.80	110
#4	364 / .0100 (30)	.065	1.65	.346	8.79	149
#2	624 / .0100 (30)	.065	1.65	.428	10.87	240
#1	767 / .0100 (30)	.065	1.65	.456	11.58	288
1 / 0	975 / .0100 (30)	.065	1.65	.501	12.72	359
2 / 0	1196 / .0100 (30)	.065	1.65	.539	13.69	432
3 / 0	1547 / .0100 (30)	.078	1.98	.625	15.86	564
4 / 0	1950 / .0100 (30)	.078	1.98	.690	17.52	699

All data and specifications contained herein are current and subject to change without notification. All values are nominal and/or approximate and may vary. All styles and standards dependent on conductor size.



TYPE SGT MULTI-PURPOSE BATTERY CABLE

TYPE SGT | 24 AWG MULTI-PURPOSE BATTERY CABLE

AWG SIZE	# COND STRAND / DIAM (OR) GA	NOMINAL INSULATION THICKNESS		NOMINAL OUTSIDE DIAMETER (+JACKET)		APPROX LBS PER 1K'
		INCHES	MM	INCHES	MM	
#6	70 / .0195 (24)	.060	1.52	.333	8.45	115
#4	98 / .0195 (24)	.065	1.65	.397	10.09	159
#2	168 / .0195 (24)	.065	1.65	.449	11.39	248
#1	210 / .0195 (24)	.065	1.65	.465	11.81	299
1 / 0	266 / .0195 (24)	.065	1.65	.544	13.81	375
2 / 0	342 / .0195 (24)	.065	1.65	.597	15.16	472
3 / 0	418 / .0195 (24)	.078	1.98	.674	17.12	585
4 / 0	532 / .0195 (24)	.078	1.98	.748	18.99	731

TECHNICAL SPECIFICATIONS

Construction

- | | |
|---------------------|--|
| Conductors | <ul style="list-style-type: none"> Rope-lay, bunch-stranded Combo 133X/30 AWG, 30 AWG, and 24 AWG 99.99% oxygen-free electronic (OFE) high-purity copper conductor |
| Voltage Rating | <ul style="list-style-type: none"> 60 V DC; 25 V AC |
| Insulation & Jacket | <ul style="list-style-type: none"> Jacketed with PVC compound Resistant to battery acid, crushing force, diesel fuel, engine coolant, engine oil, ethanol, extreme temperatures, flame, gasoline, power-steering fluid, and transmission fluid |
| Temperature Range | <ul style="list-style-type: none"> -50°C (-58°F) to 105°C (221°F) |

Standards & Certifications

- | | |
|--------------------|---|
| Industry Approvals | <ul style="list-style-type: none"> UL Listed Meets battery cable requirements per: UL 558 and UL 583 SAE J1127 Compliant |
|--------------------|---|

Standard Stock

- | | |
|-------------------|--|
| Available Lengths | <ul style="list-style-type: none"> Coils/Assemblies at 25', 50', 100', and 250' Reels at 500', 1,000', and 2,500' Custom lengths available upon request |
|-------------------|--|

Customization

- | | |
|---------------------|--|
| Jacket Colors | <ul style="list-style-type: none"> ● Black (standard) ● Blue ● Green ● Red ● Yellow ● Orange |
| Sample Print Legend | <ul style="list-style-type: none"> {AWG SIZE} SGT BATTERY CABLE 105°C * MADE IN USA * SAE J1127 |
| Marking Options | <ul style="list-style-type: none"> Quick Print®; Surface Print; Indent Print; Logo/Icon; Sequential Marking |



TYPE SGX

CROSS-LINKED BATTERY CABLE



Applications

Direct's Type SGX is a versatile battery cable constructed with high-quality, cross-linked polyolefin (XLPO). The cable is most commonly used for interconnection between auto/vehicle battery terminals, starters, and grounds, but is also suitable for industrial applications. Type SGX is UL Listed, SAE J1127 compliant and manufactured in the USA.

Construction

- Rope-lay, bunch-stranded SAE intermediate or ASTM Class K 99.99% oxygen-free electronic (OFE) high-purity copper; bare (standard) or tinned (optional)
- Wrapped paper separator
- Jacketed with LSHF cross-linked XLPO compound
See reverse for construction details and technical specifications

TYPE SGX | 30 AWG CROSS-LINKED BATTERY CABLE

AWG SIZE	STRANDING	INSULATION THICKNESS		OUTSIDE DIAMETER		AMPACITY ¹	LBS PER 1,000'
	/ DIAM (OR) GA	INCHES	MM	INCHES	MM		
#6	260 / 30	.060	1.52	.316	8.03	125 A	113
#4	364 / 30	.065	1.65	.355	9.02	170 A	153
#2	624 / 30	.065	1.65	.437	11.10	225 A	245
#1	767 / 30	.065	1.65	.465	11.81	265 A	293
1 / 0	975 / 30	.065	1.65	.510	12.95	305 A	364
2 / 0	1,196 / 30	.065	1.65	.548	13.92	355 A	438
3 / 0	1,547 / 30	.078	1.98	.634	16.09	410 A	572
4 / 0	1,950 / 30	.078	1.98	.699	17.74	475 A	707
250 MCM	2,432 / 30	.078	1.98	.789	20.03	530 A	872

TYPE SGX | 24 AWG CROSS-LINKED BATTERY CABLE

AWG SIZE	STRANDING	INSULATION THICKNESS		OUTSIDE DIAMETER		AMPACITY ¹	LBS PER 1,000'
	/ DIAM (OR) GA	INCHES	MM	INCHES	MM		
#6	70 / 24	.060	1.52	.342	8.68	125 A	119
#4	98 / 24	.065	1.65	.406	10.32	170 A	163
#2	168 / 24	.065	1.65	.458	11.62	225 A	253
#1	210 / 24	.065	1.65	.474	12.04	265 A	304
1 / 0	266 / 24	.065	1.65	.553	14.04	305 A	382
2 / 0	342 / 24	.065	1.65	.606	15.39	355 A	479
3 / 0	418 / 24	.078	1.98	.683	17.35	410 A	593
4 / 0	532 / 24	.078	1.98	.757	19.22	475 A	740

All data and specifications contained herein are current and subject to change without notification. All values are nominal and/or approximate and may vary. All styles and standards dependent on conductor size.



TYPE SGX CROSS-LINKED BATTERY CABLE

TYPE SGX | COMBINATION OF 133X & 30 AWG FLEXIBLE STRAND CROSS-LINKED BATTERY CABLE

AWG SIZE	# COND STRAND / DIAM(OR) GA	NOMINAL INSULATION THICKNESS		NOMINAL OUTSIDE DIAMETER (+JACKET)		APPROX LBS PER 1K'
		INCHES	MM	INCHES	MM	
#6	133 / .0140 (27)	.060	1.52	.321	8.15	114
#4	133 / .0170 (25)	.065	1.65	.372	9.45	162
#2	133 / .0218 (23)	.065	1.65	.437	11.10	248
#1	767 / .0100 (30)	.065	1.65	.465	11.81	293
1 / 0	975 / .0100 (30)	.065	1.65	.510	12.95	364
2 / 0	1196 / .0100 (30)	.065	1.65	.548	13.92	438
3 / 0	1547 / .0100 (30)	.078	1.98	.634	16.09	572
4 / 0	1950 / .0100 (30)	.078	1.98	.699	17.74	707
250	2432 / .0100 (30)	.078	1.98	.789	20.03	872

TECHNICAL SPECIFICATIONS

Construction

Conductors	<ul style="list-style-type: none"> Rope-lay, bunch-stranded SAE intermediate or ASTM Class K 99.99% oxygen-free electronic (OFE) high-purity copper Bare (standard) or tinned (optional)
Voltage Rating	<ul style="list-style-type: none"> 60 V DC; 25 V AC
Insulation & Jacket	<ul style="list-style-type: none"> Wrapped paper separator Jacketed with LSHF (low-smoke, halogen-free) cross-linked XLPO compound Resistant to abrasion, battery acid, diesel fuel, engine coolant, engine oil, ethanol, extreme temperatures, flame propagation, gasoline, power-steering fluid, and transmission fluid
Temperature Range	<ul style="list-style-type: none"> -40°C (-40°F) to 125°C (257°F) Dry

Standards & Certifications

Industry Approvals	<ul style="list-style-type: none"> UL Listed; UL 4127 (60 V DC; 25 V AC) Meets battery cable requirements per UL 558 and 583 SAE J1127 Compliant CMRT and Prop 65 Compliant
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Standard Stock

Available Lengths	<ul style="list-style-type: none"> Coils/Assemblies at 25', 50', and 100' Reels at 250', 500', 1,000', and 2,500' Custom lengths available upon request
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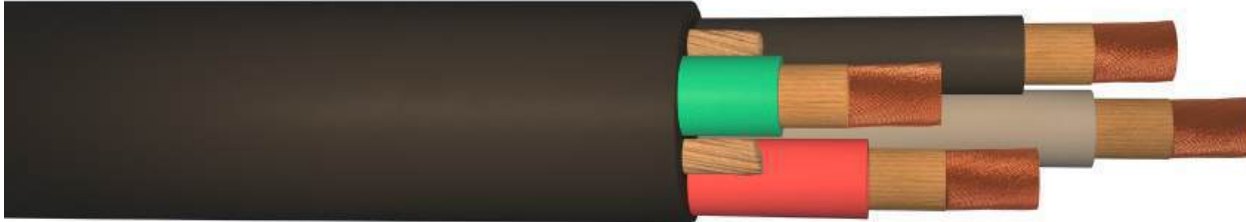
Customization

Jacket Colors	<ul style="list-style-type: none"> ● Black (standard) ● Blue ● Green ● Red ● Yellow ● Orange
Marking Options	<ul style="list-style-type: none"> Quick Print®; Surface Print; Indent Print; Logo/Icon; Sequential Marking



SOOW (MSHA)

MULTI-CONDUCTOR POWER CABLE



Applications

Direct's SOOW (MSHA) is a versatile multi-conductor power cable designed for use in industrial and other demanding applications, including heavy equipment, construction machinery, motors and welding leads, portable lighting, battery chargers, shallow water immersion, and mining environments. SOOW (MSHA) is MSHA compliant, NEC 400 and NFPA 70 permitted, and manufactured in the USA.

Construction

- Rope-lay, bunch-stranded 30 AWG SAE 99.99% oxygen-free electronic (OFE) high-purity copper conductors
- Internal conductors insulated with proprietary LSHF EPDM compound; color-coded
- Twisted and reinforced with wrapped paper spacers
- Jacketed with proprietary CPE compound

See reverse for construction details and technical specifications

SOOW (MSHA) | MULTI-CONDUCTOR POWER CABLE

AWG SIZE / # OF COND	COND STRANDS / DIAM (OR) GA	COND WALL THICKNESS (NOM)		JACKET THICKNESS (NOM)		OUTSIDE DIAMETER (NOM)		AMPACITY ¹	APPROX LBS PER 1K'
		INCHES	MM	INCHES	MM	INCHES	MM		
8 / 2	182 / 30	0.050	1.27	0.060	1.52	0.644	16.36	40 A	238
8 / 3	182 / 30	0.050	1.27	0.060	1.52	0.703	17.86	40 A	314
8 / 4	182 / 30	0.050	1.27	0.060	1.52	0.770	19.56	35 A	406
6 / 2	260 / 30	0.050	1.27	0.060	1.52	0.694	17.63	55 A	289
6 / 3	260 / 30	0.050	1.27	0.060	1.52	0.761	19.33	55 A	398
6 / 4	260 / 30	0.050	1.27	0.060	2.03	0.835	21.21	45 A	519
4 / 2	364 / 30	0.050	1.27	0.080	2.03	0.790	20.07	70 A	378
4 / 3	364 / 30	0.050	1.27	0.080	2.03	0.838	21.29	70 A	515
4 / 4	364 / 30	0.050	1.27	0.080	2.03	0.922	23.42	60 A	665
2 / 2	624 / 30	0.050	1.27	0.080	2.03	0.954	24.23	95 A	583
2 / 3	624 / 30	0.050	1.27	0.080	2.03	1.015	25.78	95 A	813
2 / 4	624 / 30	0.050	1.27	0.080	2.03	1.121	28.47	80 A	1,052

¹Allowable ampacity per NFPA 70 / NEC Article 400. Values are based on ambient temperature of 30°C.

All data and specifications contained herein are current and subject to change without notification. All values are nominal and/or approximate and may vary.



SOOW (MSHA) MULTI-CONDUCTOR POWER CABLE

TECHNICAL SPECIFICATIONS

Construction

- | | |
|---------------------|---|
| Conductors | <ul style="list-style-type: none">Rope-lay, bunch-stranded 30 AWG SAE 99.99% oxygen-free electronic (OFE) high-purity copper conductors |
| Voltage Rating | <ul style="list-style-type: none">600 V |
| Insulation & Jacket | <ul style="list-style-type: none">Internal conductors insulated with proprietary low-smoke, halogen-free EPDM compound; color-codedTwisted and reinforced with wrapped paper spacersJacketed with proprietary CPE compoundInsulation resistant to abrasion, battery acid, diesel fuel, engine coolant, engine oil, ethanol, extreme temperatures, flame, gasoline, power-steering fluid, and transmission fluidJacket resistant to abrasion, crushing force, extreme temperatures, flame, impact, oil, sunlight, and water60°C (140°F) oil resistant temperature rating (CPE compound)UL tested 720 hours sunlight resistance rating (CPE compound) |
| Temperature Range | <ul style="list-style-type: none">-40°C (-40°F) to 90°C (194°F) |
-

Standards & Certifications

- | | |
|--------------------|--|
| Industry Approvals | <ul style="list-style-type: none">MSHA CompliantNEC Article 400 PermittedNFPA 70 Permitted30 CFR Subpart KFT-5 Flame TestedREACH, RoHS, CMRT, and Prop 65 Compliant |
|--------------------|--|
-

Standard Stock

- | | |
|-------------------|--|
| Available Lengths | <ul style="list-style-type: none">Coils/Assemblies at 25', 50', 100'Reels at 250', 500', 1,000', and 2,500'Custom lengths available upon request |
|-------------------|--|
-

Customization

- | | |
|-----------------|--|
| Jacket Colors | <ul style="list-style-type: none">● Black (standard) |
| Marking Options | <ul style="list-style-type: none">Quick Print®; Surface Print; Indent Print; Logo/Icon; Sequential Marking |
-

ULTRA-FLEX®

FLEXIBLE WELDING CABLE CLASS M



Applications

Direct's Ultra-Flex® flexible class M welding cable has been completely re-engineered with improved stranding and jacketing for superior flexibility and ease-of-movement within high-flex applications, including pipelines, robotics, and constrained areas. Ultra-Flex is SAE J1127 and RoHS compliant, and manufactured in the USA.

Construction

- Rope-lay, bunch-stranded, ultra flexible 34 AWG SAE 99.99% oxygen-free electronic (OFE) high-purity copper conductor
 - Jacketed with TPE compound
 - Signature vibrant orange with deep black striping
- See reverse for construction details and technical specifications

ULTRA-FLEX | FLEXIBLE WELDING CABLE

AWG SIZE	STRANDING	INSULATION THICKNESS (NOM)		OUTSIDE DIAMETER (NOM)		APPROX LBS PER 1K'
	/ DIAM (OR) GA	INCHES	MM	INCHES	MM	
#2	1,653 / 34 GA	.065	1.65	.430	10.92	241
#1	1,995 / 34 GA	.065	1.65	.462	11.74	286
1 / 0	2,646 / 34 GA	.065	1.65	.550	13.97	374
2 / 0	3,087 / 34 GA	.065	1.65	.556	14.12	428

SUGGESTED IN-LINE AMPACITY FOR WELDING CABLE

AMPS	50'	75'	100'	125'	150'	175'	200'	225'	250'	275'	300'	325'	350'
100	#4	#2	#2	#1	#1	1 / 0	2 / 0	2 / 0	3 / 0	3 / 0	3 / 0	4 / 0	4 / 0
150	#2	#2	#1	1 / 0	2 / 0	3 / 0	3 / 0	4 / 0	4 / 0	250 MCM	250 MCM	250 MCM	350 MCM
200	#2	#1	2 / 0	3 / 0	3 / 0	4 / 0	4 / 0	250 MCM	350 MCM	350 MCM	350 MCM	350 MCM	
250	#1	1 / 0	3 / 0	4 / 0	4 / 0	250 MCM	350 MCM	350 MCM	350 MCM				
300	#1	2 / 0	3 / 0	4 / 0	250 MCM	350 MCM	350 MCM	350 MCM					
350	1 / 0	3 / 0	4 / 0	250 MCM	350 MCM	350 MCM							
400	2 / 0	3 / 0	250 MCM	350 MCM	350 MCM								
450	2 / 0	4 / 0	250 MCM	350 MCM	350 MCM								
500	3 / 0	4 / 0	350 MCM	350 MCM									
550	4 / 0	250 MCM	350 MCM										
600	4 / 0	250 MCM	350 MCM										

For reference only. Due to variables within welding applications, it is recommended the user consult an electrical engineer for a particular welding application.

All data and specifications contained herein are current and subject to change without notification. All values are nominal and/or approximate and may vary. All styles and standards dependent on conductor size.



ULTRA-FLEX[®] FLEXIBLE WELDING CABLE

TECHNICAL SPECIFICATIONS

Construction

Conductors	<ul style="list-style-type: none">Rope-lay, bunch-stranded, ultra flexible 34 AWG SAE 99.99% oxygen-free electronic (OFE) high-purity copper conductor
Voltage Rating	<ul style="list-style-type: none">600 V
Insulation & Jacket	<ul style="list-style-type: none">Jacketed with TPE compoundResistant to battery acid, diesel fuel, engine coolant, engine oil, ethanol, extreme temperatures, flame, gasoline, power-steering fluid, and transmission fluid
Temperature Range	<ul style="list-style-type: none">50°C (-58°F) to 105°C (221°F)


Standards & Certifications

Industry Approvals	<ul style="list-style-type: none">NEC Article 630 (Electric Welders)SAE J1127 CompliantRoHS Compliant
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Standard Stock

Available Lengths	<ul style="list-style-type: none">Coils/Assemblies at 25', 50', and 100'Reels at 250', 500', and 1,000'Custom lengths available upon request
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Customization

Jacket Colors	<ul style="list-style-type: none"> Vibrant Orange with Black stripe
Sample Print Legend	<ul style="list-style-type: none">{AWG} ULTRA-FLEX WELDING CABLE 600V -50°C +105°C * MADE IN USA * RoHS * SAE J1127
Marking Options	<ul style="list-style-type: none">Quick Print[®]; Surface Print; Indent Print; Logo/Icon; Sequential Marking

VERI-FLEX®

TYPE SC | STAGE CABLE



Applications

Direct's Veri-Flex® single-pass stage, sound, and lighting cable is an industrial-grade flexible and heavy-duty power cable used within the entertainment industry, including live events, movie and television, and theatre lighting. Veri-Flex® has been designed to achieve the optimal balance of flexibility and durability, with unparalleled customization. The cable is also deployed for rental and temporary power applications. Veri-Flex® is UL listed, RoHS compliant, and manufactured in the USA.

Construction

- Rope-lay, bunch-stranded 30 AWG 99.99% oxygen-free electronic (OFE) high-purity copper conductor
- Bare ASTM Class K OFE copper
- Wrapped paper separator
- Single-layer proprietary CPE construction

[See reverse for technical specifications](#)

VERI-FLEX TYPE SPSC | STAGE CABLE

AWG SIZE	STRANDING	INSULATION THICKNESS		OUTSIDE DIAMETER		AMPACITY ¹	LBS PER 1K'
	/ DIAM (OR) GA	IN	MM	IN	MM	amps	
#8	182 / 30	.090	2.29	.357	9.07	80	101
#6	273 / 30	.090	2.29	.402	10.21	105	141
#4	429 / 30	.090	2.29	.437	11.10	140	196
#2	676 / 30	.090	2.29	.506	12.85	190	285
#1	845 / 30	.090	2.29	.537	13.64	220	346
1 / 0	1,066 / 30	.090	2.29	.577	14.66	260	419
2 / 0	1,339 / 30	.090	2.29	.626	15.90	300	514
3 / 0	1,677 / 30	.090	2.29	.679	17.25	350	629
4 / 0	2,109 / 30	.090	2.29	.742	18.85	405	772
250 kcmil	2,527 / 30	.095	2.41	.811	20.60	455	921

All data and specifications contained herein are current and subject to change without notification. All values are nominal and/or approximate and may vary. All styles and standards dependent on conductor size.



VERI-FLEX[®] TYPE SC | STAGE CABLE

TECHNICAL SPECIFICATIONS

Construction

Conductors	<ul style="list-style-type: none">Rope-lay, bunch-stranded 30 AWG 99.99% oxygen-free electronic (OFE) high-purity copper conductor; bare ASTM Class K OFE copper
Voltage Rating	<ul style="list-style-type: none">600 V
Insulation & Jacket	<ul style="list-style-type: none">Wrapped paper separatorSingle-Layer construction with proprietary CPE compoundImproved black color compoundResistant to abrasion, crushing force, extreme temperatures, flame, impact, oil, sunlight, and waterUL tested 60°C (140°F) oil resistant temperature ratingUL tested 720 hours sunlight resistance rating
Temperature Range	<ul style="list-style-type: none">-50°C (-58°F) to 105°C (221°F) Dry

Standards & Certifications

Industry Approvals	<ul style="list-style-type: none">UL Listed Type SCUL 1680 (Stage and Lighting Cable)UL 44 and 1581, & 2556NFPA 70/NEC Arts. 400, 520, 525, and 530	<ul style="list-style-type: none">FT-5 (4/0 and larger only)CSA C22.2 No. 96 and 2556ASTM B3, B49, B172, and B263
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Standard Stock

Available Lengths	<ul style="list-style-type: none">Reels at 250', 500', 1,000', and 2,500'Custom lengths and assemblies available upon request
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Customization

Jacket Colors	<ul style="list-style-type: none">● Black (standard)
Sample Print Legend	<ul style="list-style-type: none">VERI-FLEX (UL) E471601 2 AWG TYPE SC 105°C -50°C 600V OIL RES 60°C MAX AMPS NEC TABLE 400.5(A)(2) FOR 90°C
Marking Options	<ul style="list-style-type: none">Quick Print[®]; Surface Print; Indent Print; Logo/Icon; Sequential Marking

CAM CONNECTORS

INLINE // SINGLE-POLE

From Direct Wire's specially equipped workshop, our qualified professionals carry out the pre-assembly of cam-style assemblies using genuine, premium-brand components. Our cams use a smoother body design that eliminates sharp edges that can get caught during use. The design also provides a perfectly contoured ergonomic grip for maximum control during mating and removal. Highly visible arrows guide quicker alignment during mating.

Applications

- Specifically designed for industrial power distribution applications requiring quick, tool-free connections
- Ideal for portable power, power distribution, motors, generators and entertainment applications
- Replaces traditional hardwiring while cutting downtime and maintenance
- Cam-style connectors are insulated, watertight, and resistant to abrasion, cracking, heat, oil, ozone, and weather



CAM CONNECTORS INLINE // SINGLE-POLE

TECHNICAL SPECIFICATIONS

Construction

Materials	<ul style="list-style-type: none">• UV resistant Santoprene™ housing• Solid brass contacts• Glass fill, heat stabilized, nylon retaining screw
Industry Approvals	<ul style="list-style-type: none">• UL Listed and CSA Certified
Environmental Rating	<ul style="list-style-type: none">• NEMA Type 3R and 4
Electrical Rating	<ul style="list-style-type: none">• 400 A; 600 V AC/DC
Temperature Rating	<ul style="list-style-type: none">• -40°C (-40°F) to 105°C (221°F)

Features

Wide Cut Lines	<ul style="list-style-type: none">• Wide indicator lines allow for easier cuts. Offset internal step provides a clean and tight sealing surface
Retention Screw	<ul style="list-style-type: none">• Non-conductive, glass filled, nylon screw with wide screwdriver slot
Alignment Arrow	<ul style="list-style-type: none">• Marked arrow allows for quick and easy mating
Smooth Design	<ul style="list-style-type: none">• Eliminates sharp and rough edges, which can catch and snag during use
Ergonomic Grip	<ul style="list-style-type: none">• Ergonomically contoured shape for maximum control
Improved Contact	<ul style="list-style-type: none">• Solid brass contact with optimized chamfers on both ends for easier installation

Stock & Customization

Colors	<ul style="list-style-type: none">• ● Black ○ White ● Red ● Blue ● Green ● Brown ● Orange ● Yellow
Available Sizes	<ul style="list-style-type: none">• Accepts a wide range of AWG and MCM cable sizes

Value-Added Services

At Direct Wire, we understand wire and cable products are not one-size-fits-all. With continually changing business objectives and specific requirements, customers need capable and reliable supply partners now more than ever to deliver solutions that keep their business moving forward.

Direct Wire's value-added services compliment our manufacturing capacity and core product portfolio to provide customers with individualized solutions that address their current and anticipated needs. And, with distribution warehouses located in Denver, PA and Lancaster, PA, customers are assured they'll receive the correct product when it is needed and how it is specified.

» Color & Striping

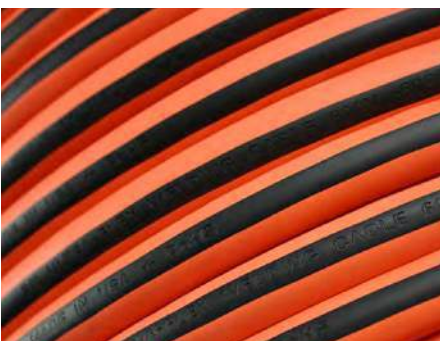
Direct Wire's color capabilities and innovative striping process enable customers to quickly and accurately identify owned cables on the job site, bring branding elements into their operations, and assign colors and stripes for specific functions or safety.



Color

Our cable jackets and insulation layers contain colorants engineered directly into proprietary rubber and plastic compounds, delivering greater value than alternative methods such as dyeing or applying topcoat.

Direct Wire's permanent cable coloring makes for easier, faster, and safer wire and cable management on any project or job site, including identification, installation, tracing, repair, and replacement.



Striping

Direct Wire pioneered an advanced manufacturing method to incorporate a permanent colored vertical/longitudinal stripe directly into its extruded jackets.

Our striping capabilities allow customers to differentiate cable type and purpose, distinguish ownership to deter theft, and promote company branding—similar to Direct Wire's popular Ultra-Flex welding cable with its trademark orange jacket and black stripe.

» Printing & Marking

Our ink and indent printing systems apply customizable markings to cable jackets for various identification purposes and applications, including accurate footage (or sequential) markings, industry standards and approvals, physical and mechanical characteristics, branding, and more.



Ink Print

Direct Wire's exclusive Quick Print® service offers two unique methods to apply customized ink markings along the cable jacketing to help identify cable types and function, convey company branding, and deter theft.

Our high-speed inkjet and print wheel systems apply extra durable, easy-to-read letters, numbers, and unique characters to mark and label cable as specified by customers.



Indent Print

For a more permanent identification solution, Direct Wire's indent printing capabilities mark the cable jacket with debossed lettering, numbering, and other special characters that are the same color as the outer compound and require no reprint maintenance.

Indent technologies are integrated directly into our manufacturing process to ensure consistent and accurate markings press into the jacket material without impacting internal conductors, insulation layers, or cable performance.



Value-Added Services

» Direct Repair

Direct Repair is our in-house maintenance and replacement program that helps customers lower their total cost of ownership, avoid unplanned maintenance, and improve uptime and performance. From Direct Wire's specially equipped workshop, our qualified professionals carry out thorough product inspection, length adjustment, connector replacement, and spark testing.

Direct Repair Process Overview

1. Product is received and entered into Direct Repair system. Primary inspection is conducted and quote is submitted to customer for approval.
2. Customer approves repair and technical personnel is assigned. Product is assessed for additional faults, staged, and disassembled.
3. Product repair is carried out and spark testing is conducted. Completed repair is sent to cleaning station and final quality check.
4. Repaired product is packaged and prepared for return shipping to customer. Final invoice is generated after shipment.



» Copper Recycling

Adhering to ethical and sustainable operations, Direct Wire offers a unique Copper Recycling Program to provide a competitive scrap return solution for customers – taking back copper wire and cable products, whether ours or those made elsewhere.

This convenient process offers simple and consistent rates based on COMEX market pricing, with the dollar value applied as a credit towards future orders.

We maintain industry best practices for safe and responsible recycling, delivering a valuable, secure, and environmentally conscience service to our customers.

» Private Labeling

Direct Wire offers a private labeling option to select wholesale and distribution partners who need exclusivity while filling inventory gaps or broadening portfolios. This strategic program keeps manufacturing and quality systems under our control, while private label partners are empowered to market and sell under their established brand.

As no two companies have identical needs, no two private labeling agreements are the same. Combining our manufacturing capacity and expertise with each partner's unique specifications delivers a flexible, individualized, and mutually beneficial solution for business growth and competitive advantage.

» Fulfillment

Direct Wire's production facilities and order entry systems are networked in real-time with our distribution warehouses in Denver, PA, Houston, TX, Portland, OR, and Los Angeles, CA. This level of advanced integration, paired with our nationwide footprint, brings speed, simplicity, and efficiency to the fulfillment process—ensuring customers receive the correct product when and where it is needed.

Speed & Accuracy

Stock orders are rapidly fulfilled the same or next business day from our distribution facilities. We have processes in place that ensure proper inventory levels and order accuracy, giving customers peace of mind that they are receiving the correct product on time, every time.

Simplifying Freight

Our strategically located distribution facilities translate to a fast and efficient shipping experience, with industry-best lead times, online shipment tracking capabilities, as well as reduced overall transportation and freight costs.

Returns & Recycling

In the event of a new product or scrap recycling return, Direct Wire's customer service team will assist our customers with processing a replacement order or applying credit towards future orders.





DIRECT WIRE

INDUSTRIAL

BULK & REELED CABLE PRODUCTS

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