

# ALL-FLEX®

## MULTIPURPOSE POWER CABLE



### Applications

Direct's All-Flex® is a highly versatile multipurpose power cable designed for internal/external applications, including uninterruptible power supplies (UPS), transformers, controls, battery chargers, leads and extensions, and wet environments. All-Flex is UL and cRUus listed, CSA approved, RoHS compliant, for CT use (1/0 and larger sizes), and manufactured in the USA.

### Construction

- Rope-lay, bunch-stranded 30 AWG copper conductor; bare or tinned ASTM Class K copper
- Jacketed with PVC compound

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

ALL-FLEX | MULTIPURPOSE POWER CABLE

AWG SIZE	# COND STRAND / DIAM (OR) GA	NOMINAL INSULATION THICKNESS		NOMINAL OUTSIDE DIAMETER (+JACKET)		AMPACITY <sup>1</sup>	APPROX LBS PER 1K'
		INCHES	MM	INCHES	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

<sup>1</sup>Allowable ampacity per NFPA 70 / NEC Article 310. 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. All styles and standards dependent on conductor size.



# ALL-FLEX<sup>®</sup> MULTIPURPOSE POWER CABLE

## TECHNICAL SPECIFICATIONS

### Construction

- |                       |  |
|-----------------------|--|
| Conductors            | <ul style="list-style-type: none"><li>Rope-lay, bunch-stranded 30 AWG copper conductor; bare or tinned ASTM Class K copper</li></ul>   |
| Voltage Rating        | <ul style="list-style-type: none"><li>600 V; AWM Style 10269 – 1,000 V</li><li></li></ul>  |
| Insulation & Jacket   | <ul style="list-style-type: none"><li>Jacketed with PVC compound</li></ul>   |
| Resistance Properties | <ul style="list-style-type: none"><li>Resistant to battery acid, crushing force, diesel fuel, engine coolant, engine oil, ethanol, extreme temperatures, flame, gasoline, power-steering fluid, and transmission fluid</li><li>UL tested 60°C (140°F) oil resistant temperature rating</li></ul> |
| Temperature Range     | <ul style="list-style-type: none"><li>Enhanced temperature rating</li><li>-50°C (-58°F) to 75°C (167°F) Wet; 105°C (221°F) Dry</li></ul>   |

### Standards & Certifications

- |                    |  |  |
|--------------------|--|--|
| Industry Approvals | <ul style="list-style-type: none"><li>UL 758, 1232, 1283, 1284, 1337, 1338, 1339, 1581, 2556, 10070, and 10269</li><li>UL 83 (THHW) and 1063 (MTW)</li><li>UL 1426 (BC-5W2 Boat Cable)</li><li>For CT Use (1/0 and larger sizes)</li><li>CSA C22.2 No. 75 (THHW), 127-18 (TEW), 210-15 (AWM), and 2556</li><li>ASTM B3, B33, B49, and B172</li></ul> | <ul style="list-style-type: none"><li>SAE J1127 Type SGT</li><li>NEC (NFPA 70)</li><li>ABYC E-11 (AC/DC - Electrical Boat Systems)</li><li>33 CFR Subchapter S</li><li>FT-1, FT-2, FT-4, and VW-1</li><li>REACH, RoHS, CMRT, and Prop 65 Compliant</li></ul> |
|--------------------|--|--|

### Standard Stock

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

### Customization

- |                     |   |
|---------------------|---|
| Jacket Colors       | <ul style="list-style-type: none"><li>● Black (standard) ● Red</li><li>Custom colors available upon request</li></ul>   |
| Sample Print Legend | <ul style="list-style-type: none"><li>ALL-FLEX (UL) {E#} {AWG SIZE} BC5W2 or THHW FOR CT USE or MTW or AWM STYLES 1232/1284/1338/10070 600V or 10269 1000V VW-1 --- cRU TEW or AWM I A/B 105°C 600V 0 FT-2 --- (CSA) {MCF #} {AWG SIZE} TEW 600V or AWM I A/B 105°C 1000V FT-1/FT-2/VW-1 --- ABYC E-11 --- SAE-J1127 TYPE SGT</li></ul> |
| Marking Options     | <ul style="list-style-type: none"><li>Quick Print<sup>®</sup>; Surface Print; Indent Print; Logo/Icon; Sequential Marking</li></ul>   |

