

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 ¹	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

¹Allowable 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[®] MULTIPURPOSE POWER 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 copper
Voltage Rating	<ul style="list-style-type: none">600 V; AWM Style 10269 – 1,000 V
Insulation & Jacket	<ul style="list-style-type: none">Jacketed with PVC compound
Resistance Properties	<ul style="list-style-type: none">Resistant to battery acid, crushing force, diesel fuel, engine coolant, engine oil, ethanol, extreme temperatures, flame, gasoline, power-steering fluid, and transmission fluidUL tested 60°C (140°F) oil resistant temperature rating
Temperature Range	<ul style="list-style-type: none">Enhanced temperature rating-50°C (-58°F) to 75°C (167°F) Wet; 105°C (221°F) Dry

Standards & Certifications

Industry Approvals	<ul style="list-style-type: none">UL 758, 1232, 1283, 1284, 1337, 1338, 1339, 1581, 2556, 10070, and 10269UL 83 (THHW) and 1063 (MTW)UL 1426 (BC-5W2 Boat Cable)For CT Use (1/0 and larger sizes)CSA C22.2 No. 75 (THHW), 127-18 (TEW), 210-15 (AWM), and 2556ASTM B3, B33, B49, and B172	<ul style="list-style-type: none">SAE J1127 Type SGTNEC (NFPA 70)ABYC E-11 (AC/DC - Electrical Boat Systems)33 CFR Subchapter SFT-1, FT-2, FT-4, and VW-1REACH, 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) ● RedCustom colors available upon request
Standard Print Legend	<ul style="list-style-type: none">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
Marking Options	<ul style="list-style-type: none">Quick Print[®]; Surface Print; Indent Print; Logo/Icon; Sequential Marking

