

ALL-FLEX®

UL 1283 & 1284 / MTW / LEAD WIRE



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.

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



TECHNICAL SPECIFICATIONS

CONSTRUCTION

Conductors	30 AWG ASTM Class K 99.99% oxygen-free electronic (OFE) high-purity bare copper; Rope-lay, bunch-stranded single conductor
Voltage Rating	600 V / 1,000 V (AWM Style 10269)
Insulation	PVC compound
Resistance Properties	Battery acid, crushing force, diesel fuel, engine coolant, engine oil, ethanol, extreme temperatures, lame, gasoline, power-steering fluid, and transmission fluid
Temperature Range	-50°C to 75°C (Wet) / 105°C (Dry)

STANDARDS & CERTIFICATIONS

Industry Approvals	- 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 2556 - CSA C22.2 No. 75 (TW75), No. 127 (TEW), No. 210 (AWM), and No. 2556 - cRUus Recognized - ASTM B3, B49, and B172 - SAE J1127 Type SGT - NEC (NFPA 70)	- CEC (CSA C22.1) - ABYC E-11 (AC/DC - Electrical Boat Systems) 33-CFR-Subchapter S - FT-1, FT-2, and FT-4 - For 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	- 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	● Black (standard) ● Blue ● Green ● Red ● Yellow ● Orange
Marking Options	Quick Ink Print; Surface Ink Print; Indent Print; Sequential Footage Marking; Private Labeling / Branding