

ULTRAFLEX-S UL/CSA/CE



ULTRAFLEX-S is a PVC, high flex, heavy-duty, oil-resistant, UL/CSA/CE approved, continuous flex single-conductor power supply chain cable. These cables are designed for medium mechanical stresses and movements in dry, moist and wet conditions. These special cables provide increased flex life and resistance to oil, synthetic oils and water based coolants. Applications commonly found in machine tools, robots, moveable automated machinery parts, production plants, body presses and transfer lines. Designed for applications with continuous movement in power chains with minimum bending radius. Available with green/yellow or black PVC inner jacket. The black UV-resistant jacket allows for outdoor installations within the noted temperature ranges.



Construction:

- Extra fine bare copper strands
- Strands to VDE-0295 Class-6, IEC 60228 Cl-6
- Special PVC core insulation
- Inner PVC jacket of green/yellow or black
- PVC outer jacket - black (RAL 9005)
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 600/1kV (600v UL)
- Test voltage: 4000 volts
- Flexing bending radius: 7.5 x Ø
- Static bending radius: 3 x Ø
- Flexing temp: -5° C to +90° C
- Static temp: -40° C to +90° C
- Flame retardant: IEC 60332.1, FT-1
- Insulation resistance: 200 MΩ x km

Approvals:

- UL-AWM Style 10107
- CSA AWM I/II A/B FT1
- VDE-0245, 0250, 0281
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
8 AWG (320/32) 10,0mm2 25408**	1	.370" / 9.4mm	64	121
6 AWG (512/32) 16,0mm2 25406**	1	.413" / 10.5mm	103	168
4 AWG (800/32) 25,0mm2 25404**	1	.457" / 11.6mm	161	248
2 AWG (1120/32) 35,0mm2 25402**	1	.571" / 14.5mm	225	329
1 AWG (705/28) 50,0mm2 25401**	1	.654" / 16.6mm	322	446
2/0 AWG (990/28) 70,0mm2 25421**	1	.709" / 18.0mm	451	610
3/0 AWG (1340/28) 95,0mm2 25431**	1	.807" / 20.5mm	612	802
4/0 AWG (1690/28) 120,0mm2 25441**	1	.906" / 23.0mm	773	1036
250 MCM (2123/28) 150,0mm2 25425**	1	.992" / 25.2mm	966	1174
350 MCM (1470/26) 185,0mm2 25435**	1	1.142" / 29.0mm	1191	1556
450 MCM (1905/26) 240,0mm2 25445**	1	1.280" / 32.5mm	1545	1985
550 MCM (2385/26) 300,0mm2 25455**	1	1.394" / 35.4mm	1932	2381

* Additional sizes may be available.

Color Code Chart

- 00 - Green/Yellow
- 01 - Black

Insert a 2-digit color code from the color code chart for the ** found at the end of the proper part number.

i.e. - 2542100 - #2/0 AWG Core with Green/Yellow Inner PVC jacket

i.e. - 2540801 - #8 AWG Core with Black inner PVC jacket