

## ULTRAFLEX-S-CY UL/CSA/CE



**ULTRAFLEX-S-CY** is a PVC, high flex, heavy-duty, oil-resistant, overall braid shielded, 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 power circuits of servo motors driven by frequency converters as well as main spindle drives in machine tools. Optimized for continuous movement in power chains with minimum bending radius. The tinned copper braid shield provides disturbance-free transmissions of signals and impulses with added EMI protection. Available with green/yellow or black PVC inner jacket. Outdoor installation is not permitted.



### 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
- 85% Tinned Copper Braid
- Fleece wrap
- PVC outer jacket - orange (RAL 2003)
- **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 25508**	1	.394" / 10.0mm	87	154
6 AWG (512/32) 16,0mm2 25506**	1	.437" / 11.1mm	127	201
4 AWG (800/32) 25,0mm2 25504**	1	.484" / 12.3mm	174	282
2 AWG (1120/32) 35,0mm2 25502**	1	.594" / 15.1mm	272	413
1 AWG (705/28) 50,0mm2 25501**	1	.677" / 17.2mm	376	553
2/0 AWG (990/28) 70,0mm2 25521**	1	.748" / 19.0mm	523	731
3/0 AWG (1340/28) 95,0mm2 25531**	1	.866" / 22.0mm	691	936
4/0 AWG (1690/28) 120,0mm2 25541**	1	.929" / 23.6mm	862	1187
250 MCM (2123/28) 150,0mm2 25525**	1	1.016" / 25.8mm	959	1295
350 MCM (1470/26) 185,0mm2 25535**	1	1.173" / 29.8mm	1301	1767
450 MCM (1905/26) 240,0mm2 25545**	1	1.319" / 33.5mm	1697	2267
550 MCM (2385/26) 300,0mm2 25555**	1	1.425" / 36.2mm	2106	2763

### 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. - 2554100 - #4/0 AWG Core with Green/Yellow Inner PVC jacket

i.e. - 2540601 - #6 AWG Core with Black inner PVC jacket

\* Additional sizes may be available.