

Hi-Flex Unshielded Single Conductor Cable

NEED CUSTOMS?
See Page 25

- Ideal for Power Applications Requiring Voltages up to 42,000 Volts DC
- Excellent Alternative to PVC & Teflon Wire in Confined Area and Motion Applications
- Available from 4 AWG to 30 AWG
- Low Smoke/Zero Halogen (LSZH)

Cicoil's Hi-Flex Unshielded Single Conductor Cable is ideal for high voltage and extreme temperature applications. Ultra-flexible, finely stranded wire conductors are used for maximum flexibility and long life in dynamic, flexing applications. Cicoil's patented extrusion process encapsulates the wire conductor in a crystal clear, flexible, yet very durable Flexx-Sil™ insulation.

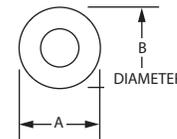


Applications
Aerospace, Solar Panel, Robotics, Medical, Oil Drilling, Wind Turbine, Welding

Cable

Amp Rating ¹	Volts DC	Conductor Gauge	Diameter [inches]	Part Number ²
3	10K	30 AWG	0.21	969M101-30-1
5	12K	28 AWG	0.21	969M101-28-1
6	12K	26 AWG	0.22	969M101-26-1
7	12K	24 AWG	0.22	969M101-24-1
8	31K	22 AWG	0.23	969M101-22-1
10	31K	20 AWG	0.24	969M101-20-1
15	42K	18 AWG	0.25	969M101-18-1
19	42K	16 AWG	0.26	969M101-16-1
27	42K	14 AWG	0.28	969M101-14-1
36	42K	12 AWG	0.30	969M101-12-1
47	42K	10 AWG	0.33	969M101-10-1
65	42K	8 AWG	0.39	969M101-8-1
95	42K	6 AWG	0.44	969M101-6-1
125	42K	4 AWG	0.50	969M101-4-1

Dimensions



Note

1. Amp rating is the maximum value for each conductor at room temperature of 70°F (21°C). Amp rating decreases as temperature increases.
2. High tensile, bare copper and silver plated conductors, insulated wires with specific color codes are available by request. Minimums may apply.

Cable Assemblies



Cable Length (feet)	Part Number Addition
3	-CA003
6	-CA006
12	-CA012

Notes

1. Append onto base cable Part Number for complete assembly.
Example: 969M101-30-1-CA003
2. Connector ratings may differ from cable ratings; refer to manufacturer specifications.

Assembly Dimensions



Connectors

- Signal (J1): Ring Lug

Cable Specifications

All engineering values are nominal and subject to change.

Mechanical	Environmental
Conductors: Ultra flexible, finely stranded, tinned copper Minimum Bend Radius: - 6x cable height for intermediate flex - 10x cable height for continuous flex Outer Jacket Durometer Rating: 65 (Shore A)	Temperature Rating: -65°C to +165°C Moisture Rating: Submersible, Salt Water Resistant Clean Room Rating: Class 1, Zero Particulates Extreme Environments: Sunlight, UV Light, Alcohol, Chemical and Oil Resistant Low Smoke/Zero Halogen (LSZH): Has passed testing for smoke, toxicity, flammability and halogen content, by UKAS certified lab
	Electrical
	Outer Jacket Dielectric Strength: 450 volts/mil (17.7 kv/mm) See Electrical Rating Chart on Page 47

Options

Page

Additional Conductors	26
Low Friction Options	28
StripMount™ Integrated Mounting Strip	28
Integrated Tubing	29
SuperTuff™ Jacket	29
Colored Jacketing	29
Strip and Tin Cable Ends	29
FlexRail™ Self-Supporting Cable	30
Complete Assembly	31