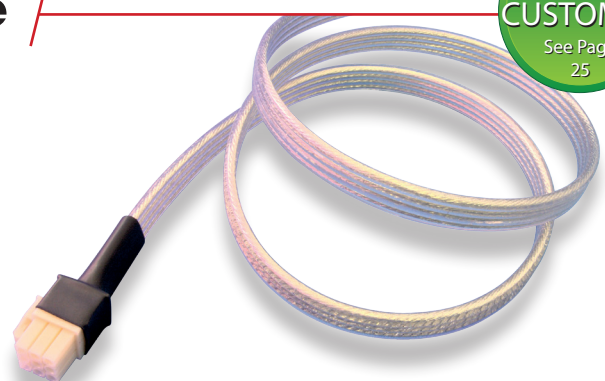


# Hi-Flex Motor Power Cable

**NEED CUSTOMS?**  
See Page 25

- Ideal for Hi-Flex Servo Power Applications
- Rated for More Than 10 Million Flexing Cycles
- 4 Power Conductors in Shielded and Unshielded Versions

Cicoil's line of Hi-Flex Motor Cables provides the advantages of all Cicoil flexible flat cables in a standard, low-cost package. Ultra-flexible, finely stranded wire conductors are used for maximum flexibility and long life in dynamic, flexing applications. Shielded conductors add tinned copper braiding over PFA insulation. Cicoil's patented extrusion process encapsulates the wire conductors in a crystal clear, flexible, yet extremely durable insulation.



**Applications**  
Linear, Servo and Stepper Motors, AC and Variable Frequency Drives

## Cable

	Amp Rating <sup>1</sup>	Volts DC	Conductor Gauge	Dimensions [inches]		Part Number
				Width	Height	
Non-Shielded	7	12,000	24 AWG	0.27	0.09	969M101-24-4-MC
	8	18,000	22 AWG	0.32	0.11	969M101-22-4-MC
	10	18,000	20 AWG	0.36	0.12	969M101-20-4-MC
	15	20,000	18 AWG	0.43	0.14	969M101-18-4-MC
	19	20,000	16 AWG	0.48	0.15	969M101-16-4-MC
	27	20,000	14 AWG	0.61	0.19	969M101-14-4-MC
	36	20,000	12 AWG	0.75	0.24	969M101-12-4-MC
	47	20,000	10 AWG	0.92	0.29	969M101-10-4-MC
	65	20,000	8 AWG	1.26	0.35	969M101-8-4-MC
Shielded	95	20,000	6 AWG	1.47	0.40	969M101-6-4-MC
	125	20,000	4 AWG	1.77	0.47	969M101-4-4-MC
	7	12,000	24 AWG	0.36	0.12	969M101-24-4-SMC
	8	18,000	22 AWG	0.41	0.13	969M101-22-4-SMC
	10	18,000	20 AWG	0.45	0.14	969M101-20-4-SMC
	15	20,000	18 AWG	0.52	0.16	969M101-18-4-SMC
	19	20,000	16 AWG	0.57	0.17	969M101-16-4-SMC
	27	20,000	14 AWG	0.70	0.21	969M101-14-4-SMC
	36	20,000	12 AWG	0.84	0.26	969M101-12-4-SMC
47	20,000	10 AWG	1.01	0.31	969M101-10-4-SMC	

### Notes

1. Amp rating is the maximum value for each conductor at room temperature of 70°F (21°C). Amp rating decreases as temperature increases.

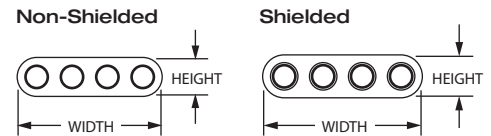
Wire Gauge	Power Connector (P1)
22-24	Tin Contacts - TE, P/N 770902-1; 9-Pos Housing - TE, P/N 172169-1
16-20	Tin Contacts - TE, P/N 171639-1; 9-Pos Housing - TE, P/N 172169-1
14	Gold Contacts - MOLEX, P/N 02-09-6110; 9-Pos Housing - MOLEX, P/N 3092092
4-10	Ring Lugs - Typical

## Cable Specifications

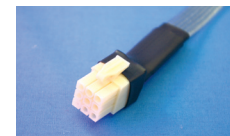
All engineering values are nominal and subject to change.

Mechanical	Environmental
<b>Conductors:</b> Ultra flexible, finely stranded, tinned copper	<b>Temperature Rating:</b> -65°C to +165°C
<b>Shielding:</b> Ultra flexible, braided shields, with 90% nominal coverage	<b>Moisture Rating:</b> Submersible, Salt Water Resistant
<b>Minimum Bend Radius:</b> - 6x cable height for intermediate flex - 10x cable height for continuous flex	<b>Clean Room Rating:</b> Class 1, Zero Particulates
<b>Flex Life:</b> 10,000,000 cycles nominal	<b>Extreme Environments:</b> Sunlight, UV Light, Alcohol, Chemical and Oil Resistant
<b>Outer Jacket Durometer Rating:</b> 65 (Shore A)	<b>Electrical</b>
	<b>Outer Jacket Dielectric Strength:</b> 450 volts/mil (17.7 kv/mm)
	See Electrical Rating Chart on Page 47

## Dimensions



## Cable Assemblies



Please contact Cicoil for other connectors and length options.

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

### Notes

1. Append onto base cable Part Number for complete assembly. Example: 969M101-24-4-MC-CA003
2. Connector ratings may differ from cable ratings; refer to manufacturer specifications.

## Assembly Dimensions



### Connectors

• See Table to the left

## Options

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