

Hi-Flex Motor Power Cable

- 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.



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

Cable

	Amp Rating ¹	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
	95	20,000	6 AWG	1.47	0.40	969M101-6-4-MC
Shielded	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

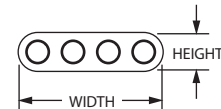
Cable Specifications

All engineering values are nominal and subject to change.

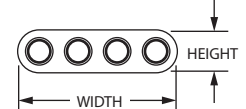
Mechanical	Environmental
Conductors: Ultra flexible, finely stranded, tinned copper	Temperature Rating: -65°C to +165°C
Shielding: Ultra flexible, braided shields, with 90% nominal coverage	Moisture Rating: Submersible, Salt Water Resistant
Minimum Bend Radius:	Clean Room Rating: Class 1, Zero Particulates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

Dimensions

Non-Shielded



Shielded



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

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