

Motion Series Plus Cable

NEED CUSTOMS?
See Page 25

- Ideal for Hi-Flex Motion Applications
- Shielded Power and Signal Wires in a Compact Flat Cable
- For 1, 2 or 3 Servo Axes

Cicoil's Motion Series Plus cable is available in a single axis design that may be ganged for 1, 2 or 3 axes servo motion. Each Motion Series Plus cable integrates 6 power conductors and 20 signal wires in a compact flat cable measuring just 0.75" wide by 0.2" thick. The Flexx-Sil™ encapsulation provides a solid, one-piece construction that creates a highly durable, flexible flat cable package.



UL MEETS 94V-0
 RoHS COMPLIANT
 REACH COMPLIANT
 FAA FLAME TESTED

Applications
Linear Motors, Servo and Stepper Motors

Cable

Amp Rating ¹	No. of Axes	Conductor Gauge		Dimensions [inches]		Part Number
		Power	Signal	Width	Height	
8	1	22 AWG/3 pr	28 AWG/10 pr	0.75	0.20	MCP-2000-1
	2	22 AWG/6 pr	28 AWG/20 pr	1.50	0.20	MCP-2000-2
	3	22 AWG/9 pr	28 AWG/30 pr	2.25	0.20	MCP-2000-3

Notes

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

Cable Assemblies



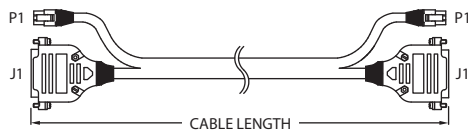
Cable Length (feet)	Part Number Addition
3	-CA003
6	-CA006
12	-CA012

Notes

1. Append onto base cable Part Number for complete assembly. Example: MCP-2000-1-CA003
2. Connector ratings may differ from cable ratings; refer to manufacturer specifications.

Please contact Cicoil for other connectors and length options.

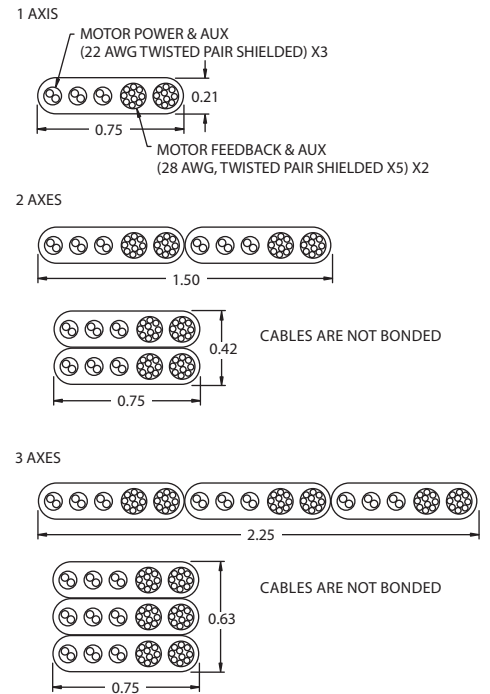
Assembly Dimensions



Connectors

- Power (P1): Tin Contact - TE, P/N 770904-1
9-Pos Housing - TE, P/N 172169-1
- Signal (J1): 25-Pin - Amphenol, P/N L717-DB25P
Metallized Shell - TE, P/N 5748677-3

Dimensions



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: - 6x cable height for intermediate flex - 10x cable height for continuous flex	Clean Room Rating: Class 1, Zero Particulates
Flex Life: 10,000,000 cycles nominal	Extreme Environments: Sunlight, UV Light, Alcohol, Chemical and Oil Resistant
Outer Jacket Durometer Rating: 65 (Shore A)	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