

Motion Series Cables

Flexibility

Twice as flexible as competitive flat cables, making them ideal for linear motion and tight-space applications.

Durability

All wires are fully encapsulated in 'glass-clear' silicone, in a solid, one-piece construction, creating a highly durable cable package. The cable will not deform, break or wear for the lifetime of the product, even in high flex applications.

Extreme Environments

Cicoil cables perform in temperatures from -65°C to 260°C, and during exposure to water, steam, and chemicals. They are also ideal for vacuum or clean room environments.

Availability

Standard cables are in stock for immediate delivery. Custom designs, including cable assemblies with standard connectors, are also available with minimum lead times.





- For High Performance Motion Applications
- Power and Signal Wires in one Cable, for 1, 2 or 3 Servo Axes
- High-Flex, Shielded Wires
- Available in Stock for 1KW, 2KW, and 3KW Servo Motors

Specifications

■ Electrical

Inductance: .0118 µh/ft **Velocity of Propagation:** 69.5% **Conductor Resistance:** 3.6 $\Omega/1,000$ ft.

Impedance: 10.5Ω Capacitance: 139.72 pF/Ft

Insulation Resistance: 200 megΩ @ 500Vdc Dielectric Strength: 450 volts/mil (17.7KV/mm)

Dielectric Constant: 2.8-3.0

Environmental

Temperature Rating: -65°C to 260°C Moisture Rating: Submersible **Vacuum Rating:** 5 x 10-5 torr^① Outgassing: 0.24 %TML, 0.02 %CVCM² Radiation: 107 Roentgens (exposure)

Acid Resistance: Good Ozone Resistance: Outstanding

Oil Resistance: Good Flame Resistance: Good

Water/Steam Resistance: Excellent (Including

salt and DIW)

Alcohol Resistance: Good Toxins: Halogen-free

Mechanical

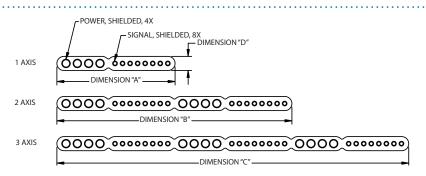
Life Expectancy: 10,000,000 cycles, min. 3

Approvals

NASA 1124 (Outgassing for Spacecraft Materials) UL Recognized—File #E324413, CE

■ Notes

- 1. Cicoil cable can exceed this rating when specified
- 2. Cicoil outgassed cables are NASA rated for space applications (NASA Outgassing spec
- 3. Continuous flexing applications



	DIMENSIONS (inches)					WIRE GAUC	JGE		
POWER RATING	A 1 AXIS	B 2 AXIS	C 3 AXIS	D	POWER AWG	SIGNAL AWG	MIN. BEND RADIUS		
1KW	.846	1.682	2.518	.101	22	28	1"		
2KW	.950	1.890	2.830	.137	18	28	1.4"		
3KW	1.098	2.186	3.274	.194	14	28	2"		

Select basic Part Number based on Power Rating and Number of Axes required. Replace "XXX" with length in Feet.

Example: MC-2000-2-075; 2KW Cable with 2 Axes; 75 feet.

		ORDER INFORM	IATION
POWER RATING	NO. OF AXES	WIDTH [Inches]	PART NUMBER
1KW	1	0.85	MC-1000-1-XXX
	2	1.68	MC-1000-2-XXX
	3	2.52	MC-1000-3-XXX
2KW	1	0.95	MC-2000-1-XXX
	2	1.89	MC-2000-2-XXX
	3	2.83	MC-2000-3-XXX
3KW	1	1.10	MC-3000-1-XXX
	2	2.19	MC-3000-2-XXX
	3	3.27	MC-3000-3-XXX
			XXX = Length in feet

Specifications are nominal

Specifications and Pricing are subject to change