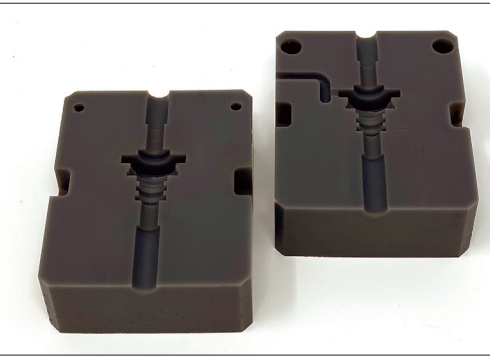


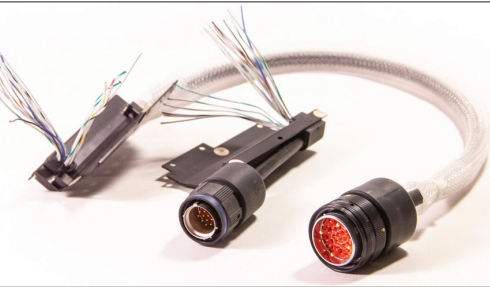
CUSTOM OVERMOLDING AND ENCAPSULATION

MJM Industries



OVERMOLDING

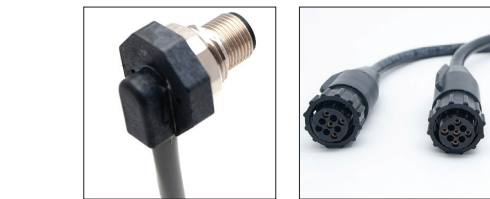
MJM Industries is a leading innovator in the development and manufacture of custom molded and overmolded assemblies. Offering services ranging from mold design to 3D modeling, MJM Industries offers a one-stop shop for high quality, competitive cost solutions for your molded cable assemblies needs. In-house equipment allows for the manufacture of molded strain reliefs, connector back-shells, custom connectors, grommets, y-blocks, and custom circuit board enclosures. With the correct choice in materials, MJM Industries can assist in meeting ingress protection ratings, harsh environments, vibration, shock, UL standards, UV requirements or other testing standards.



MJM Industries has molding capabilities that offer vertical inject single station as well as shuttle stations ranging from 5- to 35-tons of clamping capacity. In addition, we carry support equipment that allows for heating or cooling of the molds, recycling of material and drying of hydroscopic polymers. From automotive, off-road vehicle, aerospace, military and defense, medical, industrial automation to test and measurement, MJM Industries has developed solutions for customers large and small.

ENCAPSULATING

MJM Industries supports the development and production of encapsulated circuit boards, sensors and smart cables through the process of low pressure molding and potting. Depending on the application and annual usage, we offer the option of two part potting epoxies and low pressure hot melt technology. Either option can provide ingress protection results without the use of high flow pressures from traditional molding. Material selections vary depending on your electrical, environmental, flexibility and static control requirements.



MJM Industries offers several equipment options when taking the encapsulation route. Choices include various epoxy systems for mixing and dispensing as well as UV, LED and thermal curing processes. When selecting hot melt technology, we utilize low pressure molding (LPM) machines with 2 tons of clamping pressure, 3.0 oz shot size and melt temperatures up to 475 F.

INNOVATIVE SOLUTIONS

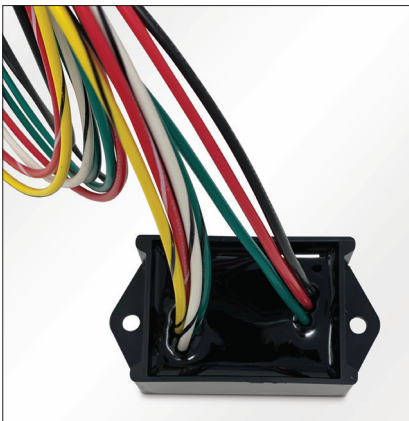
Our engineering team has over 70 years of combined experience in the design and development of mold tooling, product development and molded cable assembly production. Below is an example of additional services and material options we offer.

Molding Materials:

- PVC - Polyvinyl Chloride
- TPV - Thermoplastic Vulcanisate
- TPR - Thermoplastic Rubber
- TPE - Thermoplastic Elastomer
- TPP - Thermoplastic Polymer
- LCP - Liquid Crystal Polymer
- Polyamides
- Co-Polyesters

Services:

- Solid Works/Auto CAD
- 3D Printing FDM & SLA
- Assembly Fixture design & build
- Custom testing
- ESD Controls



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