



**Cable and assemblies
for medical applications**



Obsessed with cable solutions.

Feel better about your cables, connectors and assemblies.

At C&M Corporation, we're obsessed with cable solutions. No other cable supplier has a better understanding of the operating conditions and performance demands that are unique to the medical equipment industry. So it's no wonder that many of the world's leading medical device engineers and manufacturers turn to us for answers to their cable challenges.

C&M cables are found in routine diagnostic instruments and advanced life-saving equipment.



Special medical equipment deserves special attention.

We think about every single demand that could possibly be placed on your medical device cables — including demands you may not have thought of yourself. And we pay particular attention to considerations that are vital to medical equipment, such as:

- strict adherence to industry standards and FDA GMPs
- exposure to extreme environments as high as IP 68
- moisture proofing
- protection against airborne particulates, moisture, chemicals and gases
- appropriate use of silicone and other medical-grade materials (PVC, polyurethanes, polypropylenes, etc.)
- indoor and outdoor operation
- resistance to sterilization methods and chemicals
- EMI suppression
- elimination of triboelectric noise
- extremely low leakage current and redundant grounding paths
- use of “direct attach” resistance welds for low resistance, low data flux and extreme joint reliability
- radiographic transparency
- material traceability

From high-flex cables to silicone-sealed or multi-shot molded connectors, C&M can provide any cable, coil cord or assembly you need to ensure the optimum performance of your medical devices.

Vertical integration sets C&M apart.

Vertical integration. One-stop shopping. Whatever you call it, at C&M it means one thing — total control over the development of your cable assembly rests solely with us, from beginning to end. There is no other supplier of cables, connectors or assemblies who can match our extensive engineering, customization, manufacturing, testing, and logistics capabilities, all located under the roof of our 350,000 square-foot facility in northeastern Connecticut. (You should come visit us sometime. You'll be amazed by this place.)

Because our in-house abilities cover everything you might need, from prototype development to final product, we have no engineering limitations. Our exceptionally talented and highly skilled engineers work in groups based on industry expertise, but our cross-functional stage-gate development process ensures that you receive the full benefit of our collective experience.



We do our own tooling and prototyping, so flexibility and speedy delivery are the norm. We manufacture and coil our own cables, and offer private labeling, pad printing and custom color matching. Our on-site product reliability assurance program includes x-ray testing, flex testing and other forms of stress and failure inducing tests. We even have our own UL-certified burn chamber, so we can speed approvals and deliver product sooner.

But our engineering doesn't stop there. We go to great lengths to add even more value by designing with aesthetics and ergonomics in mind. We'll shape your connector to match other elements of your product, or add features to improve tactility to the user. Your cables and assemblies will not only perform well, but will add to the visual appeal and ease of use of your products.

Your partner through the entire product life-cycle.

Our obsession with cable solutions continues long after your product launch. When your design and process are established, you won't have to live through the pain of locating and qualifying low-labor-cost foreign suppliers, should subsequent re-tooling be required. We already have manufacturing facilities in Mexico and China, so we can offer you a phased program to bring you assemblies at the cost you require. And as your design matures, our logistics expertise will help you stay on top for a long time.

From the big picture to the smallest details, we're more than able to handle any kind of cable or assembly challenge you might face.

You're invited to learn more about C&M.

Contact us next time you're working on a project with a cable or assembly challenge. Better yet, take us up on our invitation to visit us in person and take a tour of our facility — and experience firsthand the incredible scope of our obsession with cable solutions.



C&M TO THE RESCUE

**Life-saving information continues to flow,
thanks to C&M.**

A defibrillator OEM offered its customers the option to interface with land-line and cell phones, enabling the transmission of real-time defibrillator data. When the OEM's modem supplier changed its connector design, the OEM's cable supplier said that developing an assembly to fit the new design "couldn't be done." Rather than eliminate this popular and invaluable option from the product, the OEM turned to C&M for help.

The modem's PC board had a space for the assembly connection that was smaller than the cable that needed to be connected. The only connector that would fit in the space was designed to accept a flex circuit — which was not the type, size or shape of the cable. We developed a method of connecting our cable to a flexor, and then fitting the flexor into the space left by the PC board designers.

What one supplier deemed impossible, we found a way to do. And that's just one example of how our obsession with cable solutions saved the day for a customer.



Proof of C&M's ability is everywhere.

The C&M team has extensive experience designing highly specialized cables, connectors and assemblies for an incredibly diverse range of medical equipment:

CARDIOVASCULAR EQUIPMENT

- defibrillator paddle cables
- ECG monitor cables
- IV bottle heater cords
- cardiovascular ultrasound cables
- cardiac cath-lab monitor cables
- cardiac imaging power cables (angiography, MRI, CT, EBT)

PATIENT MONITORING EQUIPMENT

- pulse oximetry cable, pulse pressure cable
- twelve-lead cable systems
- low-noise cables and cable assemblies (low triboelectric noise)

PATIENT MAINTENANCE EQUIPMENT

- nurse call cables
- computer cables and networking connections
- work station cable connections
- ICU power and monitoring connections
- electric wheel chair wire and cable

GENERAL MONITORING EQUIPMENT

- video monitor cables
- computer cables and networking connections
- routers and networking equipment
- security station and remote monitoring cable connections

GENERAL SURGICAL CARE

- cables for operating microscopes
- operation monitor and video cables
- power cables for all operation light sources
- surgery table control cables

RADIOLOGY EQUIPMENT

- bone densitometer power and monitoring cables
- MRI power and monitoring cables
- radiology power and monitoring cables
- CT power and monitoring cables
- EBT power and monitoring cables
- ultrasound power and monitoring cables

LABORATORY EQUIPMENT

- cables for microscopes
- blood analysis equipment cables
- chemical analysis equipment cables
- computer monitoring equipment and networking cable



We don't stop at bulk cable. Our advanced capabilities allow us to engineer, design and manufacture entire assemblies.

Our obsession with cable solutions has resulted in very satisfied customers.



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