

Custom Medical Device Cables



ACIT custom medical device cables with power wires & unshielded (A & B) or shielded (C & D) twisted data pairs supporting high-definition video

INTRODUCTION

From material selection through volume production, we are a full-service cable development partner for medical device manufacturers. Our engineering, extrusion, and testing capabilities enable custom cable constructions that meet tight performance, regulatory, and durability requirements while minimizing development risk and accelerating time to market.

Key Advantages

- » Engineering & materials depth
- » Integration expertise
- » True customization
- » Scalable production
- » ISO13485-aligned processes
- » Testing & validation support
- » Global supply continuity
- » Single-source partner
- » Collaborative engineering support
- » Proven performance

OEM Benefits

- » Reduced cable fatigue & product failures
- » Simplified integration & assembly
- » Faster device validation & time to market
- » Consistent performance through sterilization & repetitive flexing

DESIGN OPTIONS

Miniature Conductors

40 AWG & smaller

Ultra-Flexible Cables

Thin-wall extrusions & fine-strand designs

Extended Flex Life

High-strength alloys & abrasion-resistant extrusions

Low-Noise Constructions

Shielding & materials engineered for sensitive signal applications

COMMON CABLE ELEMENTS

Strength Members

Aramid or low-fray extrusions for high tensile strength & durability

Communications

Embedded USB, HDMI, coax, fiber optic & twisted pair channels

Power Wires

Insulated conductors to meet system requirements