

Teledyne Interconnect Solutions

Medical Instrument Cable

Over 65 years of experience in engineering high-performance custom cables and connectors for demanding environments, be it land, water, air, or space; and where reliability, durability, and compliance are critical.

Teledyne Interconnect Solutions (TIS) offers application-specific cable and assemblies for noninvasive medical equipment and instrumentation, drawing from decades of experience working with tinsel, thermocouple, special alloy wires, highly flexible miniature coax, optical fibers, power, and video.

Wires and Cable Critical to the Performance of Medical Assemblies

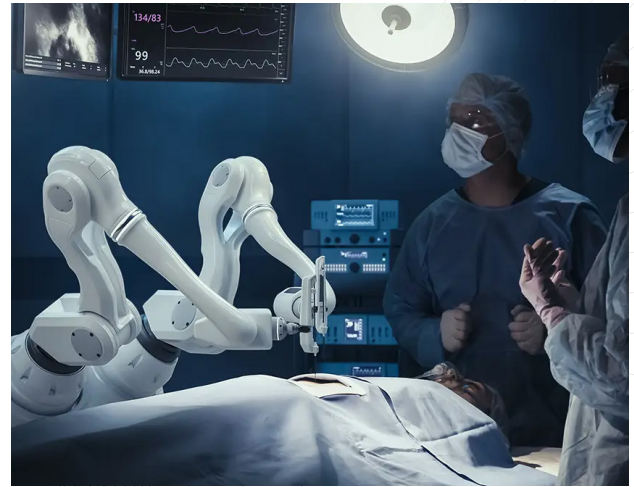
- Superior flexibility/limp designs provide freedom of movement
- Molded backshells mitigate vapor and moisture leakage and eliminate voids where bacteria can grow
- Autoclave compatible, extreme temperature resistant
- Triboelectric noise and static dissipative coatings
- High tensile strength wires and shielding
- Ultra rugged, cut resistant, ductile insulation
- Chemical resistant and flame retardant/halogen free available
- Lead free
- RF signal high isolation shielding
- High strand – high conductivity conductors



Telethane®

This insulating jacket material is targeted for applications where heat and oil resistance exceeds traditionally processed thermoplastics. Rubber-like flexibility at temperatures down to -40°C and heat-stabilized, rated at 1000 hours at 175°C, this material replaces traditional cross-linked rubber at a significantly lower cost.

Certifications & Standards:



The Following Features are Available:

Conductors

- Power, sensor, analog conductors
- Data pairs and coax
- Solid, stranded and special alloy conductors
- Wire gauge: 42 through 00
- Twisted, shielded pairs
- PP, FEP, PE, TPO, TPV insulations

Wire Alloys & Stranding

- Coppers
- Cadmium free
- High strength alloy
- CS-95 (Beryllium Alloy)
- Tinsel
- Radiopaque (LCX and Carbon Fiber)
- MFD® wires
- Thermocouple integration

Jackets

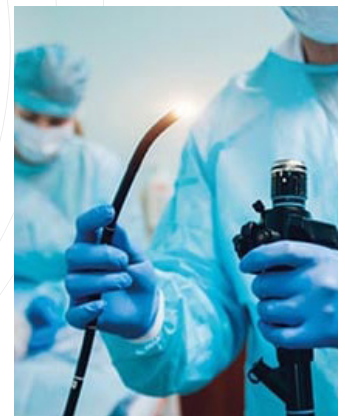
- Single or dual wall composition
- Round, flat, or profile extrusions
- Static control

Performance Enhancers

- Reduced friction and knotting
- Anti-microbial compounds
- Increased flexibility

- TPU, TPO, FEP, RoHS compliant compounds
- Sterilize tolerant

- Thermocouple wire
- Tubing
- Crush support
- Tensile support



Our business focus for demanding equipment applications includes:

- Laser surgery umbilicals
- Patient monitoring harnesses
- Advanced Imaging noise suppressant cable
- Catheter sensor leads
- Mobile diagnostic systems



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