DATASHEET

Temp-Flex Micro-Ribbon Cable ›

As an alternative to expensive printed circuit boards (PCBs) and flex circuit traces, Temp-Flex Micro-Ribbon Cable, available down to 46 AWG and with a 76 µm (0.0029”) pitch, is extruded, yielding tight tolerances and a very low dielectric constant of 2.1, which makes it ideal for interconnecting tiny sensors while providing the advantage of long flexible lengths with consistent signal integrity

FEATURES AND ADVANTAGES

Shielded versions available
Offers visual systems improved image resolution and protects against EMI/RFI

Low loss and tight tolerances with long lengths
Provides a high-performing, cost-effective alternative to PCB traces and flex circuits

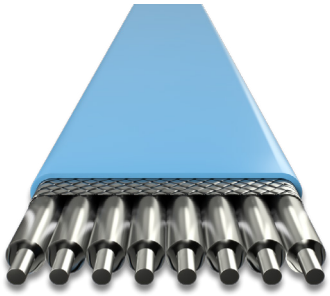
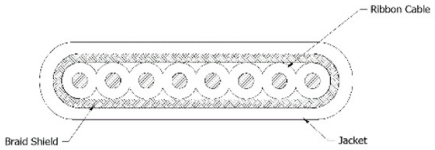


Photo Credit: ams / Eternal Moments



Available down to 46 AWG and a 76 µm (0.0029”) pitch
Ideal for micro applications, such as medical equipment for minimally invasive medical procedures

Biocompatible material options
Suitable for medical applications

Low dielectric constant of 2.1
Optimizes signal transmission with minimal loss

MARKETS AND APPLICATIONS

MedTech
Electrophysiology (EP) Mapping
Tissue Ablation Tools
Temperature Monitoring Equipment
Complementary Metal-Oxide Semiconductor *(CMOS)* Sensor Attachment
Ultrasound Hybrid Ceramics
Implantable Devices *(General Medical Services, Neurostimulation, CRM)*
Endoscopy
Catheters
Diagnostic Imaging
Patient Monitoring Devices
Surgical Robotics

Commercial
Higher-Performing Flex Replacement

DATASHEET

molex

Temp-Flex Micro-Ribbon Cable ›

SPECIFICATIONS

Reference Information

Packaging: 152.00mm (6.00“) spools typically
Designed In: Millimeters/Inches
RoHS: Yes
Halogen Free: No

Electrical

Dielectric Constant: 2.1 (PTFE), 2.1 (PFA), 2.5 (ETFE)
Voltage (max.): 30V
Dielectric Withstanding Voltage: 250V DC
Insulation Resistance: 500 Megohms

Mechanical

Bend (±90°) Flex Life: Construction dependent
Rolling Flex Life: Construction dependent
Weight: Construction Dependent
Gauge (min.): 46 AWG, shielded and non-shielded options

Physical

Material Flammability: UL94 V-0
Operating Temperature:
PTFE: -65 to + 260°C
PFA: -65 to + 260°C
ETFE: -65 to + 150°C

www.molex.com/link/tempflexmicroribbon.html

Order No. 987652-4273 USA/0k/GF/2021.08