

Temp-Flex Hybrid Ribbon Cable



Temp-Flex Hybrid Ribbon Cable combines wires of various types and sizes while offering a range of insulations

Features and Advantages

Custom hybrid cables available with a variety of wire sizes and types within the same construction

Provide space savings. Simplify termination and cable management



High-Density Micro-Ribbon Cable

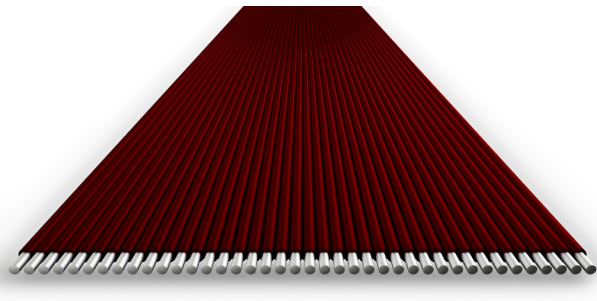
Two process options available

Manages varying cable dimensions with the same ribbon:

Flat-line extrusion process when there's a large difference between gauges

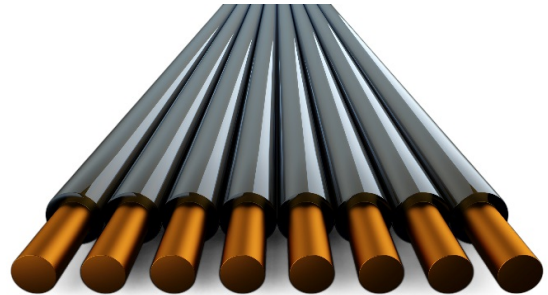
Ribbon process for more intricate constructions

Enlarged View for Detail



Construction via flat-line process available

Designed to be robust, for harsh environments
Offers FEP insulation
Delivers conductors or insulated primaries only
Provides 3x maximum OD difference between elements
Variable pitch between conductors
76.20mm (3") maximum width



Construction via ribbon process available

Offers THV, ETFE, Pebax, PFA insulation
THV and Pebax can do a mix of coaxial, twinax and conductor sizes
ETFE and PFA deliver conductors or insulated primaries only
Provides 2x maximum OD difference between elements
Variable pitch between conductors
25.40mm (1") maximum width

Applications

Medical

- Endoscopy
- Ultrasound
- Implantable therapeutics
- Pain management

Industrial Automation

- Robotics

Commercial Aviation

- Black box



Robotics



Ultrasound

Temp-Flex Hybrid Ribbon Cable



Specifications

REFERENCE INFORMATION

Packaging: Spool
UL File No.: E61522
CSA File No.:
Mates With:
Use With: RF Connectors
Designed In: Millimeters
RoHS: Yes, No or Compliant by Exemption
Halogen Free: Yes or No
Glow Wire Compliant: Yes or No

ELECTRICAL

Voltage (max.):
Current (max.):
Contact Resistance:
Dielectric Withstanding Voltage:
Insulation Resistance:

CUSTOM OPTIONS AVAILABLE

Ribbon Process OD (max.): 25.40mm
Flat-Line Process OD (max.): 76.20mm
Shield:
Micro-Extrusion Ribbon: Braid (Optional)
Jacket:
Conductor Type:
Flat-Line Ribbon: Bare Copper, SPC
Micro-Extrusion Ribbon: SPC, MP35N, Precious Metals, Stainless Steel, Others
Conductor Sizes:
Flat-Line Ribbon: 32 to 16 AWG
Micro-Extrusion Ribbon: Down to 50 AWG

MECHANICAL

Contact Insertion Force:
Contact Retention to Housing:
Insertion Force to PCB:
Mating Force:
Unmating Force:
Durability (min.):

PHYSICAL

Operating Temperature:
Flat-Line Ribbon Cable -65 to +200°C

Ordering Information

Custom Product	Description
Contact Molex	Temp-Flex Hybrid Ribbon Cable

www.molex.com/link/hybridribboncable.html

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