



**Withstanding high-temperatures and chemical exposures, rugged yet flexible MIL-Spec approved Temp-Flex® FEP Flat Ribbon Cables are ideal for aircraft avionics and harsh industrial applications**

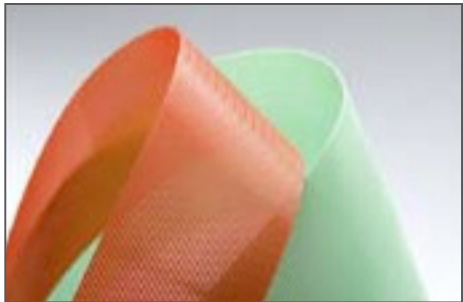
**Features and Benefits**

Wide temperature range (-65 to +200°C), durable and flexible FEP (Fluorinated Ethylene Propylene) dielectric insulation material	Withstands soldering terminations as well as sub-arctic environments. Facilitates agile movement and abrasion resistance. More robust and durable than PVC and TPE
Extruded cable	Encapsulates each conductor with insulation and will not delaminate
Pitch tolerance (control) to +/- 0.05mm (0.002")	Ensures compatibility with a wide range of Insulation Displacement Termination/Connectors (IDTs/IDCs)
Ribbonized cable	Delivers IDT/IDC press-fit terminations for efficiency and cost savings
Variety of conductor sizes (32 to 16 AWG), materials (bare copper, silver-plated copper and high-strength alloy) and pitches	Enables customization based on application requirements (current, voltage, space restrictions, tensile strength, flexibility and flex life)
Chemical resistant	Withstands acids, alcohols, aldehydes, bases, esters, hydrocarbons (aliphatic, aromatic, and halogenated), ketones and oxidizing agents
Hand-tool sliceable	Provides flexibility in conductor count to meet multiple application requirements
Low-loss dielectric constant (permittivity) (2.1)	Ensures optimum signal transmission with minimum loss

**Temp-Flex® FEP Flat-Ribbon Cable**  
Commercial FEP Flat-Ribbon Cable, MIL-Spec Approved FEP Flat-Ribbon Cable



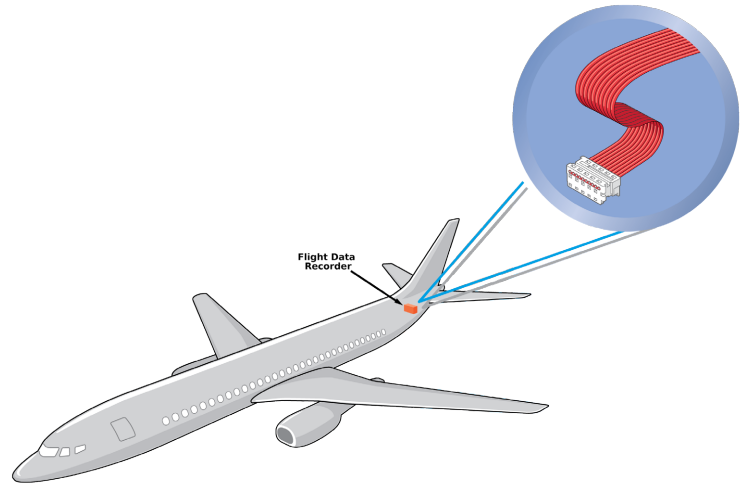
Temp-Flex FEP MIL-Spec Approved Flat-Ribbon Cable



Temp-Flex FEP Commercial Flat-Ribbon Cable

**Applications**

- Aerospace and Defense
- Flight Data Recorder Box
  - Satellite
  - Radar
  - Missile Systems
- Industrial Electronics
- Robotics



Flight Data Recorder Box



## Specifications

### Reference Information

Packaging: 30.48m (100 ft.) spool  
±10% 2 lengths maximum with  
3.05m (10 ft.) minimum length  
UL File No.: E61522, Styles: 20424,  
20726  
Mates With: Picoflex®, C-Grid®,  
SL™, KK®, Mini Mi II™, EBBI™ 50D  
connectors  
Designed In: Millimeters (Inches)  
RoHS: Yes  
Halogen Free: No

### Construction

Conductor: 32 to 16 AWG (Solid  
or Stranded; Bare Copper,  
Silver-Plated Copper, High-Strength  
Alloy)  
Insulation Material: FEP  
Pitch: Dependent on specific part  
number  
Pitch Range: 0.32 to 2.54mm  
(0.0125 to 0.10")  
Pitch Tolerance: 0.05mm (0.002")  
Maximum Width: 82.55mm (3.25")

### Electrical

Voltage (max.): 300V AC (typical)  
Dielectric Withstanding Voltage:  
>2500V AC  
Insulation Resistance:  
>500 Megohms

## Temp-Flex® FEP Flat-Ribbon Cable

### Mechanical

Bend (±90°) Flex Life: Dependent on  
specific part number  
Rolling Flex Life: Dependent on  
specific part number  
Weight: Dependent on specific part  
number

### Physical

Fire Resistance: UL94 V-O  
Flammability Test: VW1  
Operating Temperature:  
-65 to +200°C

## Ordering Information

Component	URL
Commercial FEP Flat-Ribbon Cable	<a href="http://www.molex.com/link/tempflexfepflatribbon.html">www.molex.com/link/tempflexfepflatribbon.html</a>
MIL-Spec Approved FEP Flat-Ribbon Cable	

[www.molex.com/link/tempflexfepflatribbon.html](http://www.molex.com/link/tempflexfepflatribbon.html)

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