



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

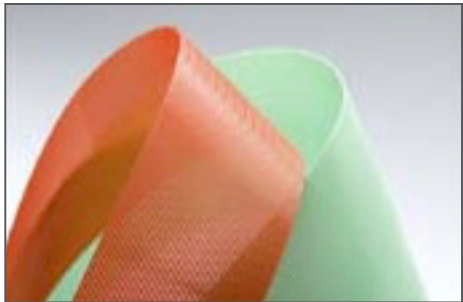
Features and Benefits

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



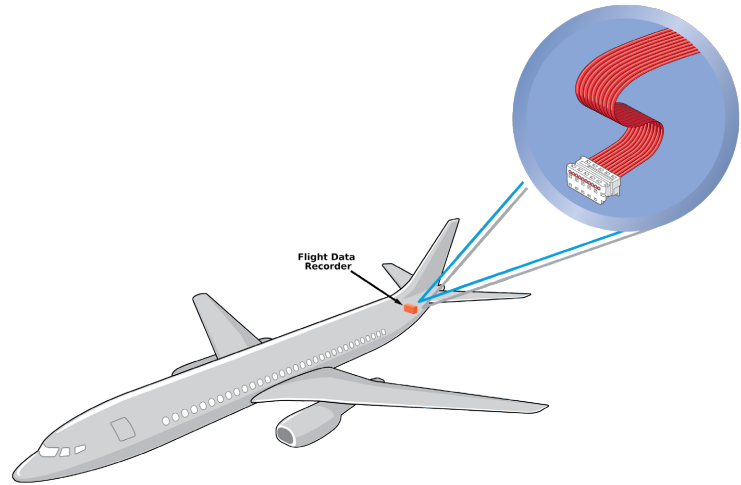
Temp-Flex FEP MIL-Spec Approved Flat-Ribbon Cable



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	www.molex.com/link/tempflexfepflatribbon.html
MIL-Spec Approved FEP Flat-Ribbon Cable	

www.molex.com/link/tempflexfepflatribbon.html