



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

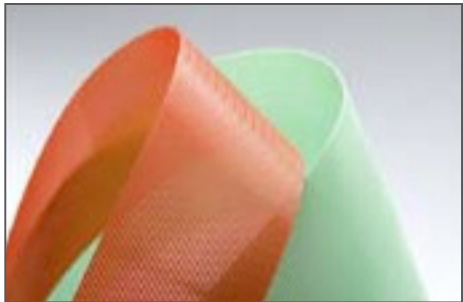
Features and Benefits

| | |
|--|--|
| 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



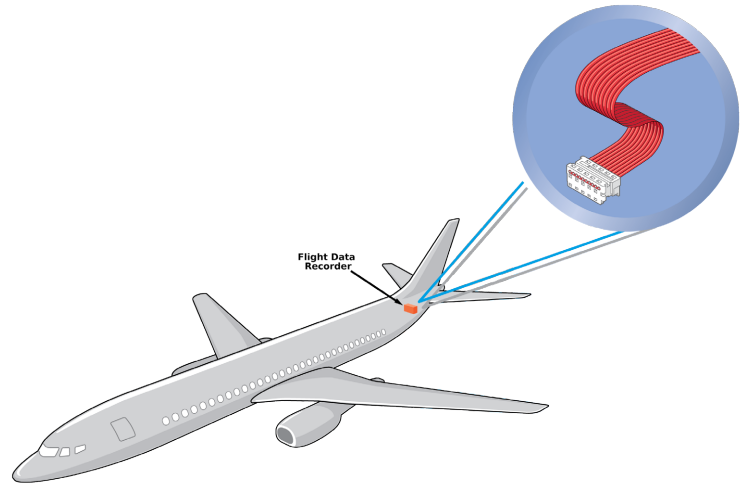
Temp-Flex FEP MIL-Spec Approved Flat-Ribbon Cable



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

Mouser Electronics

Authorized Distributor

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