

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

Extruded cable

Pitch tolerance (control) to +/- 0.05mm (0.002")

Ribbonized cable

Variety of conductor sizes (32 to 16 AWG), materials (bare copper, silver-plated copper and high-strength alloy) and pitches

Chemical resistant

Hand-tool sliceable

Low-loss dielectric constant (permittivity) (2.1)

Withstands soldering terminations as well as sub-arctic environments. Facilitates agile movement and abrasion resistance. More robust and durable than PVC and TPE

Encapsulates each conductor with insulation and will not delaminate

Ensures compatibility with a wide range of Insulation Displacement Termination/Connectors (IDTs/IDCs)

Delivers IDT/IDC press-fit terminations for efficiency and cost savings

Enables customization based on application requirements (current, voltage, space restrictions, tensile strength, flexibility and flex life)

Withstands acids, alcohols, aldehydes, bases, esters, hydrocarbons (aliphatic, aromatic, and halogenated), ketones and oxidizing agents

Provides flexibility in conductor count to meet multiple application requirements

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

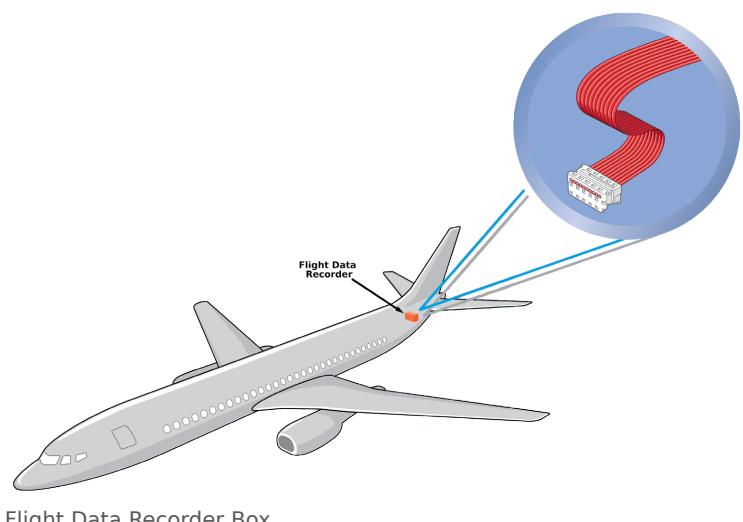
Applications

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
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