

DATA SHEET

FBL-20B1.270-AWG28-FEP-BLUE

Temp-Flex® FEP ribbon cable

FEP ribbon cable for industrial applications, FEP ribbon cable with MIL approval

The high temperature and chemical resistant FEP ribbon cables of the Temp-Flex® series convince by robustness and flexibility. With MIL approval, they are ideal for aircraft avionics and harsh industrial applications.

FEATURES & ADVANTAGES

- Durable and flexible dielectric FEP (fluorinated ethylene-propylene polymer) insulation with extended temperature range from -65 °C to +200 °C.
- Suitable for solder termination as well as sub-arctic environments. Offers high freedom of movement with good abrasion resistance, more robust and durable than PVC and TPE.
- Extruded cable: Wraps each conductor with insulation and will not peel.
- Spacing tolerance (controlled) to ± 0.05 mm (0.002 in).
- Ensures compatibility with a wide range of insulation displacement terminals and connectors (IDT/IDC)
- Flat ribbon cable: Allows IDT/IDC connection using press-fit technology for greater efficiency and cost savings.
- Available in a wide range of conductor cross-sections (32 to 16 AWG), materials (bare copper, silver-plated copper and high-strength alloy) and conductor spacing.
- Allows adaptation to application-specific requirements (current, voltage, max. space requirement, tensile strength, flexibility, bending strength).
- Chemical resistant: Resistant to acids, alcohols, aldehydes, bases, esters, hydrocarbons (aliphatic, aromatic and halogenated), ketones and oxidising agents.
- Can be cut with hand tools: Provides flexibility in the number of conductors required for different applications.
- Low loss dielectric with low dielectric constant (2.1) - offers optimum signal transmission with minimum losses

APPLICATIONS

Aerospace, defence: flight recorder, satellite, radar, missile, industrial electronics, robotics

TECHNICAL DATA

- UL File No.: E61522, Styles: 20424, 20726
- mates with: Picoflex®, C-Grid®, SL™, KK®, Mini Mi 11™, EBBI™ 50D
- RoHS, halogen free
- conductor: 32 to 16 AWG (solid or stranded; bare copper, silver-plated copper, high-strength alloy)
- insulation material: FEP
- pitch Range: 0.32 to 2.54 mm (0.0125 to 0.10")
- pitch Tolerance: 0.05 mm (0.002")
- maximum width: 82.55 mm (3.25")
- electrical voltage (max.): 300 V AC (typical)
- dielectric withstanding Voltage: > 2500 V AC
- insulation resistance: > 500 Megohms
- fire resistance: UL94 V-O
- flammability test: VWI
- operating temperature: - 65 to + 200° C