

# Temp-Flex High-Performance Flat-Ribbon Cables

Resistant to high temperatures and chemical exposure, Temp-Flex High-Performance Flat-Ribbon Cables are rugged, flexible and compact, making them ideal for a wide range of markets and applications subject to harsh environmental effects.

## ADVANTAGES AND FEATURES

### Withstands harsh environments subject to extreme temperatures, bending and abrasion

The strong and flexible dielectric insulation material has high durability when compared with PVC or TPE, facilitates repeated bending and abrasion resistance, and is designed for a wide temperature range from sub-arctic environments to soldering termination heat.

### Offers reliable operation in applications subject to chemical exposure

The chemically inert insulation resists acids, alcohols, aldehydes, bases, esters, hydrocarbons (aliphatic, aromatic and halogenated), ketones and oxidizing agents.



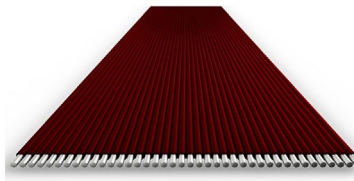
Wire Size	30 to 24 AWG
Voltage	300V AC (max.)
Insulation Resistance	500 Megohms (min.)
Pitch Tolerance	+/- .002" (.05mm)
Operating Temperatures	-65 to +200°C

### Ensures optimal signal transmission with minimal loss

The design delivers a low-loss dielectric constant (permittivity) of 2.1.

### Delivers high flex life for applications subject to vibration or bending

The design encapsulates each conductor with insulation and does not delaminate.



## CUSTOM RIBBON CABLES

### Meets a wide variety of applications, including customized requirements

Customized solutions are available based on application requirements for current, voltage, tensile strength, space constraints, flexibility and flex life.

### Enables simplified design and installation work with versatile options

Customized options for greater flexibility include hand-tool sliceable cable; intermittent bonding to ease routing and termination operations; and hybrid designs with different types of wire, including coaxial cable and shielded parallel pairs, in one ribbon.

## MARKETS AND APPLICATIONS

### Power for Data Center

Data and computing equipment  
Electrical power systems

### Industrial Automation

Robotic devices  
Industrial equipment

### Wireless Infrastructure

Telecommunications equipment  
Aerospace and defense systems



Data and Computing Equipment



Robotic Devices



Telecommunications Equipment

# Temp-Flex High-Performance Flat-Ribbon Cables

## SPECIFICATIONS

### Reference Information

Packaging: 100 ft. (30.48m) spool  $\pm 10\%$   
2 lengths maximum with 10 ft. (3.05m)  
minimum length  
Designed in: Inches  
UL File No.: E61522, Styles 20424, 20726  
Mates With: Picoflex, C-Grid, SL and KK connectors  
RoHS: Yes  
Halogen Free: No

### Mechanical

Bend ( $\pm 90^\circ$ ) Flex Life: Dependent on  
specific part number  
Rolling Flex Life: Dependent on  
specific part number  
Weight: Dependent on specific part number

### Electrical

Voltage (max.): 300V AC (typical)  
Dielectric Withstanding Voltage:  $>2,500V$  AC  
Insulation Resistance:  $>500$  Megohms

### Physical

Fire Resistance: UL94 V-0  
Flammability Test: VW1  
Operating Temperatures:  $-65$  to  $+200^\circ C$

[www.molex.com](http://www.molex.com)