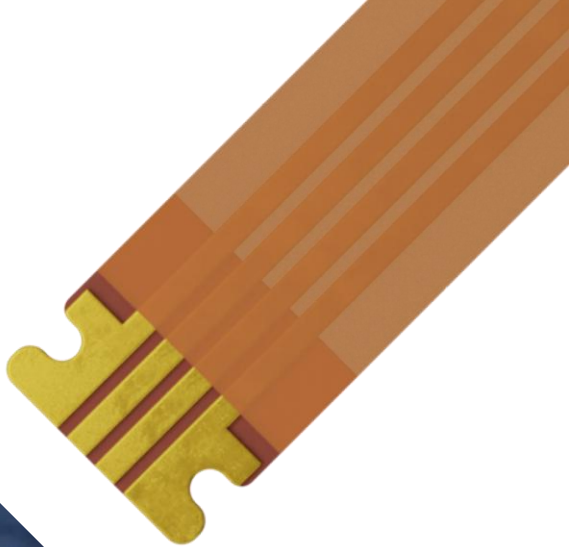
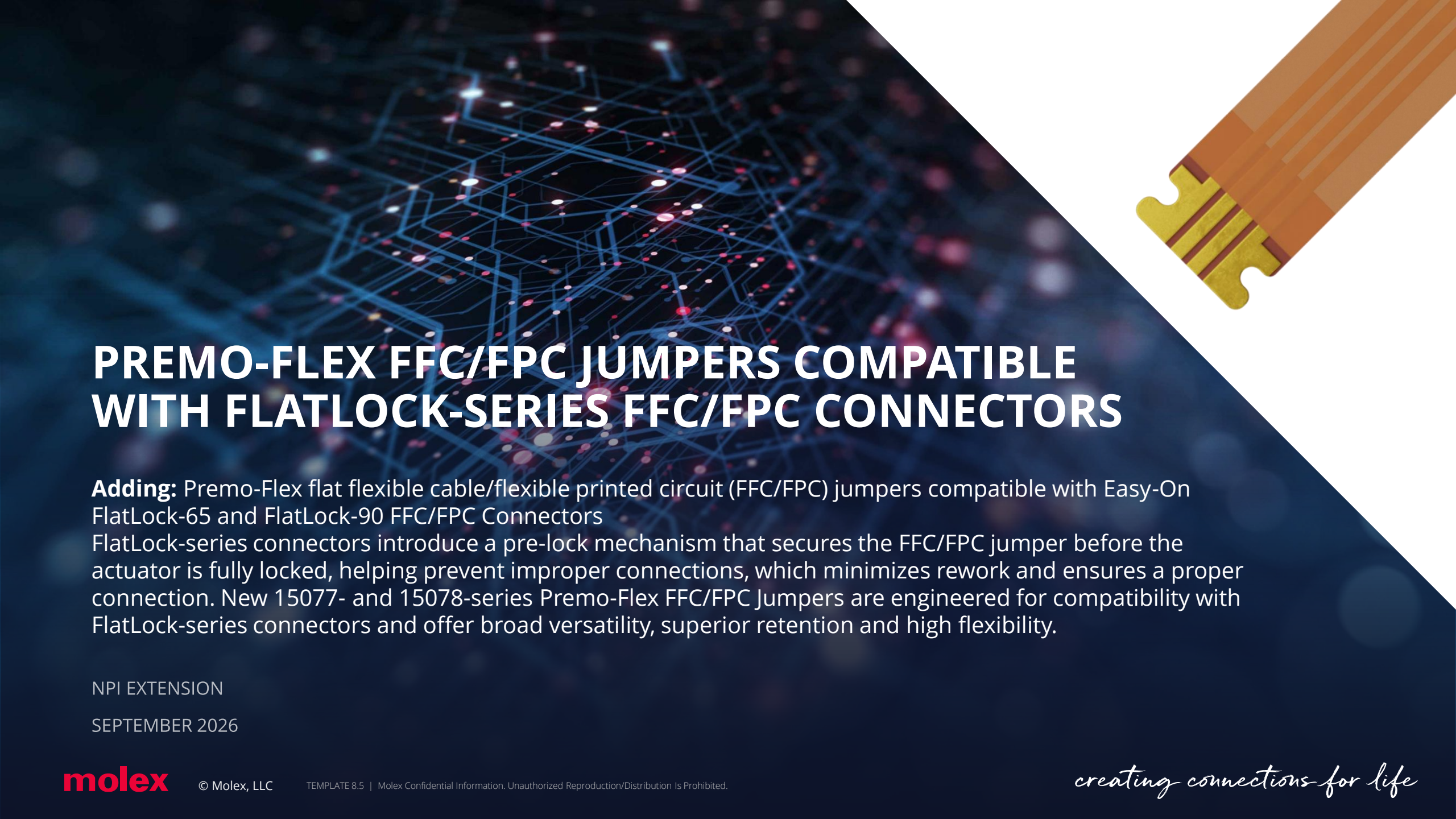




PREMO-FLEX FFC/FPC JUMPERS COMPATIBLE WITH FLATLOCK-SERIES FFC/FPC CONNECTORS

Adding: Premo-Flex flat flexible cable/flexible printed circuit (FFC/FPC) jumpers compatible with Easy-On FlatLock-65 and FlatLock-90 FFC/FPC Connectors

FlatLock-series connectors introduce a pre-lock mechanism that secures the FFC/FPC jumper before the actuator is fully locked, helping prevent improper connections, which minimizes rework and ensures a proper connection. New 15077- and 15078-series Premo-Flex FFC/FPC Jumpers are engineered for compatibility with FlatLock-series connectors and offer broad versatility, superior retention and high flexibility.

NPI EXTENSION

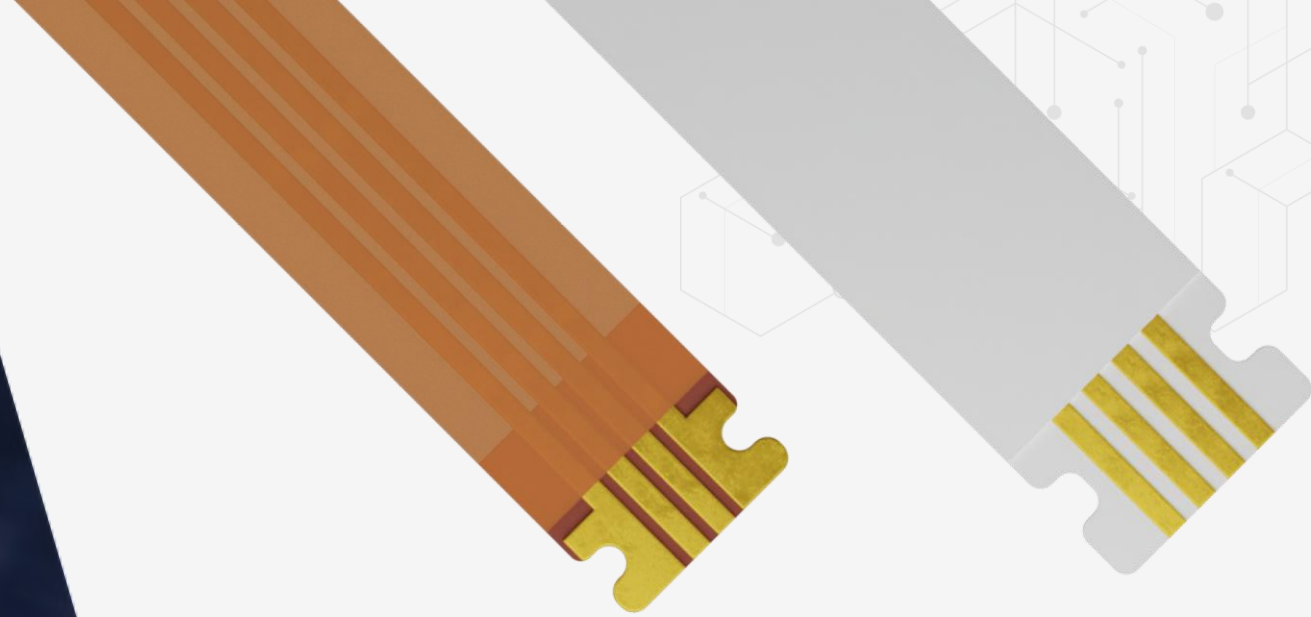
SEPTEMBER 2026

Premo-Flex FFC/FPC Jumpers Compatible with FlatLock-Series Connectors

Premo-Flex 15077- and 15078-series FFC/FPC jumpers mate with Easy-On FlatLock-Series Connectors to ensure flexible, low-profile and reliable connections for compact and mobile devices. The FlatLock pre-lock mechanism and notched latching feature of the Premo-Flex FFC/FPC jumper ensure superior retention. Durable, flexible FFC/FPC jumpers deliver compact and versatile connectivity solutions for a variety of miniaturized, dynamic and bending applications.

Series

15077 **FlatLock-65-Compatible Premo-Flex FFC/FPC Jumpers**
15078 **FlatLock-90-Compatible Premo-Flex FFC/FPC Jumpers**



[View Product Landing Page](#)

[Download Premo-Flex Technical Guide](#)

Key Specifications	
Connector Compatibility	Series 15077: 221377-series FlatLock-65 connector Series 15078: 221378-series FlatLock-90 connector
Number of Circuits	4 to 20 (series 15077), 4 to 40 (series 15078), custom circuit counts available
Design Feature	Series 15077 and 15078: Superior retention Series 15078: Ultra-flexible profile
Standard Cable Lengths	51 to 305mm (2 to 12"), custom lengths available

Product Overview

Premo-Flex FFC/FPC Jumpers for FlatLock-Series Connectors

Trends and Challenges

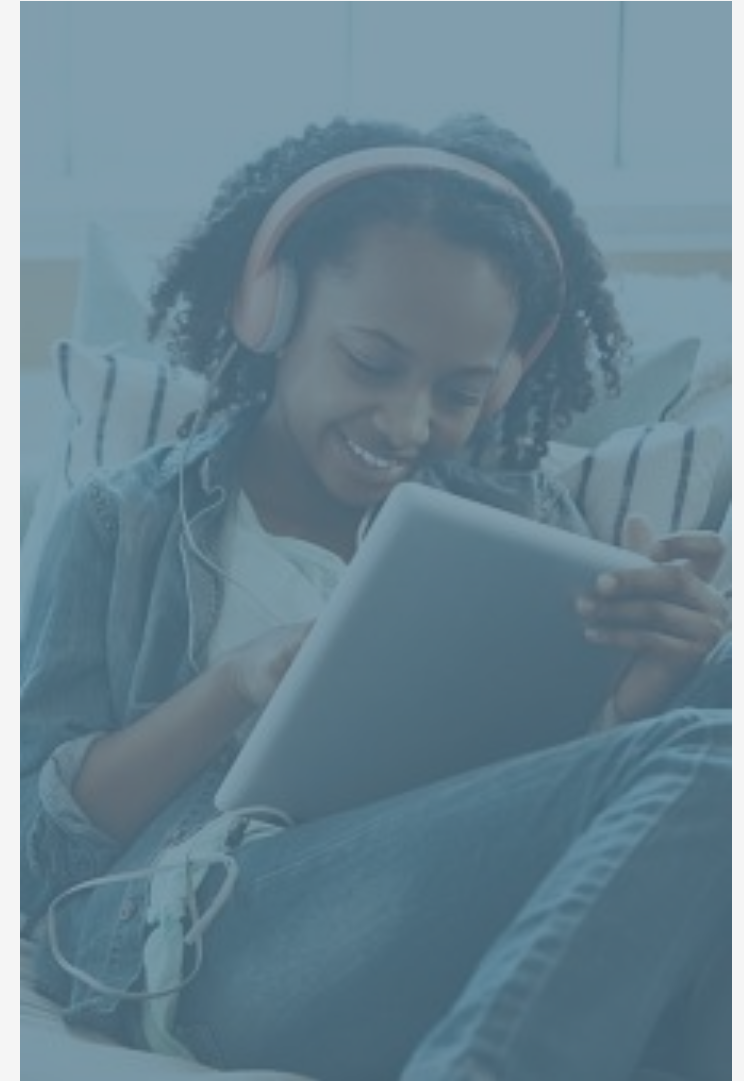
Electronic devices increasingly require interconnect solutions that deliver a combination of increased space savings, streamlined manufacturability, greater flexibility and rugged durability to meet market needs.

Industry Needs

Manufacturers and designers of space-constrained or dynamic electronic devices can use FFCs to meet stringent requirements for size, performance and flexibility. FFCs offer a variety of circuit counts, current capacities, flex cycles and retention force options that meet application-specific demands. The jumper's flexibility, combined with flex-to-board connectors engineered for reliable assembly, permits rugged and reliable connections for confined spaces or bending applications.

Product Solutions

Premo-Flex FFC/FPC Jumpers in the 15077 and 15078 series mate with Easy-On FlatLock-Series Connectors to deliver robust, reliable and flexible connectivity solutions optimized for manufacturability. The FlatLock pre-lock mechanism and notched latching feature ensure superior retention for shock- and vibration-prone applications, while ultra-flexible Premo-Flex FFC/FPC jumpers offer a broad range of off-the-shelf and customizable circuit counts and cable lengths to help simplify design work and accelerate time to market for compact and mobile devices.



Product Advantages and Features

Premo-Flex FFC/FPC Jumpers for FlatLock-Series Connectors

Ensures consistent mating

The Easy-On FlatLock connector uses a pre-lock feature and backflip actuator to simplify assembly and help prevent cable backout during mating, helping avoid rework, saving time and minimizing mating errors.

Reduces connection failures in harsh-environment applications

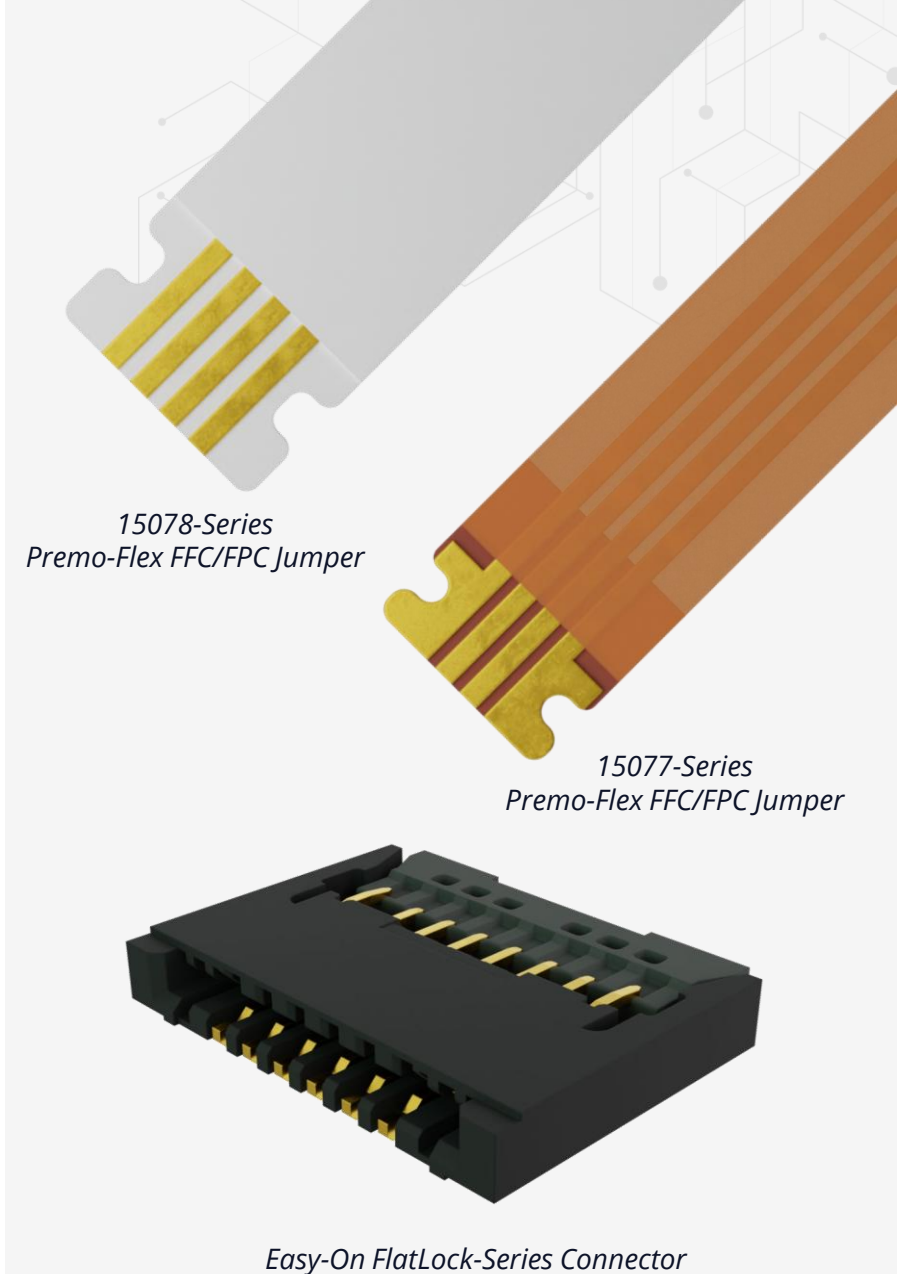
Premo-Flex FFC/FPC Jumpers employ a notched latching mechanism to ensure superior retention and mitigate the risk of accidental disconnection for up to 5 million flex cycles, ideal for shock- and vibration-prone devices.

Minimizes design constraints

A connector height of 0.65 to 0.90mm, fine 0.40 to 0.50mm pitch and flexible FFC/FPC jumper construction help designers achieve smaller, lighter and more compact designs without compromising performance or reliability.

Shortens time to market

Off-the-shelf solutions help accelerate design cycles, while custom solutions with low minimum order quantities are available to help meet customer performance requirements.



Markets and Applications

Premo-Flex FFC/FPC Jumpers for FlatLock-Series Connectors



Mirrors



Industrial Robotics



Consumer Wearables

APPLIANCES

- Washing machines

AUTOMOTIVE

- Electric vehicles
- In-cabin applications
- Lighting systems
- Mirrors

INDUSTRIAL AUTOMATION

- Industrial robotics

MEDTECH

- Medical wearables
- Robotic surgery devices

WEARABLES

- Consumer wearables
- Medical wearables

Product Specifications

Premo-Flex FFC/FPC Jumpers for FlatLock-Series Connectors



Reference Information

Series: 15077, 15078
Packaging: Bag
Designed in: Millimeters
RoHS and REACH Compliant: Yes
Easy-On Connector Compatibility:
15077 series—221377-series connector
15078 series—221378-series connector

Electrical

Voltage (max.): 60V
Current (max.):
15077 series—0.30A
15078 series—0.35A
Dielectric Withstanding Voltage: 200V for one minute, no disrupted discharge

Mechanical

Pitch:
15077 series—0.40mm
15078 series—0.50mm
Latch Type: Notched
Retention Force:
15077 series—2.5N
15078 series—3.5N
Circuits:
15077 series—4 to 20
15078 series—4 to 40
Cable Thickness:
15077 series—0.12mm
15078 series—0.085mm
Cable Lengths: 51 to 305mm (2 to 12")
Flex Life Cycles: Up to 5 million (15078 series)
Durability (min.): 15 mating cycles

Physical

Insulation Tape: Polyimide
Contact Plating: Gold-plated copper
Operating Temperatures: -40 to +105°C

Additional Resources

Web Overview Page	https://www.molex.com/en-us/products/cable-assemblies/flat-flexible-cables-ffc
Compatibility Guide	987652-3761.pdf (molex.com)
Tech Guide	987652-1121.pdf (molex.com)
Superior Retention Solution Guide	987652-6323.pdf (molex.com)
Flexibility Solution Guide	987652-6221.pdf (molex.com)
Global Product Manager	David Falla, PCS, ISBU, CCS



THANK YOU

creating connections for life

molex