



PREMO-FLEX SUPERIOR RETENTION SOLUTIONS >

PRODUCT OVERVIEW

Premo-Flex Superior Retention Solutions deliver flat flexible cables (FFCs) that are optimal for a variety of applications with an extensive range of standard off-the-shelf and custom options enabling designers to ensure reliable board-to-board connectivity in high-vibration and high-shock environments.

SOLVING INDUSTRY CHALLENGES

| INDUSTRY CHALLENGE | PRODUCT SOLUTION |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>RELIABLE CONNECTIONS IN HARSH ENVIRONMENTS Designers need consistent connectivity in applications subject to high vibration, high shock and dynamic forces.</p> | Premo-Flex Superior Retention Solutions offer secure connections using latching ears or notches, helping prevent unintentional disconnection in demanding applications. |
| <p>CUSTOMIZATION AND VERSATILITY Manufacturers require proven flexible circuit solutions that can meet specific design and schedule needs.</p> | Molex produces a wide range of custom and off-the-shelf Premo-Flex Superior Retention Solutions including various cable jumper lengths, circuit counts, amperage ratings and plating materials. |
| <p>HIGHER TEMPERATURES Manufacturers are recently interested in cables performing at 125 °C.</p> | Molex produces Premo-Flex cables that can withstand higher temperatures up to 136 °C for 168 hours, making them an excellent choice for customers seeking high-performance solutions. |



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FEATURES AND ADVANTAGES



ENABLES SECURE CONNECTIVITY IN HIGH-VIBRATION AND HIGH-SHOCK ENVIRONMENTS

Cables are available with notches or ears for robust latching to help prevent accidental disconnection



TERMINATES TO FULLY MATE WITH A WIDE RANGE OF MOLEX EASY-ON CONNECTORS

Zero-insertion force (ZIF), non-ZIF and low-insertion force (LIF) FFC connectors are available



PERMITS USE IN A VARIETY OF APPLICATIONS

Product offerings include Gold- or Tin-plated contacts and a wide range of cable length, current capacity and flex life cycle options for design flexibility



INCLUDES OFF-THE-SHELF OPTIONS FOR FASTER TIME TO MARKET

Custom and off-the-shelf solutions are available to match customer performance and scheduling needs

APPLICATION SPOTLIGHT

ENABLING RELIABLE OPERATION IN APPLICATIONS SUBJECT TO SHOCK AND VIBRATION

In consumer, medical and automotive devices subject to dynamic forces and vibration, maintaining constant connectivity is a challenge. Premo-Flex Superior Retention Cable Jumpers from Molex are designed to meet this challenge in a wide variety of demanding applications across multiple industries:

- | Vehicle infotainment systems
- | GPS devices
- | Handheld ultrasound devices
- | Medical monitoring devices
- | Automotive LCD displays
- | Virtual cockpits
- | Insulin pumps
- | Handheld gaming devices

ORDERING INFORMATION

| | | | | | | | |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Series | 15016 | 15018 | 15019 | 15031 | 15032 | 15466 | 15467 |
| Pitch (mm) | 0.50 | 0.50 | 1.00 | 0.30 | 0.30 | 0.50 | 1.00 |
| Current (A) | 0.40 | 0.55 | 1.25 | 0.20 | 0.20 | 0.55 | 1.25 |
| Latch Type | Notched | Latching ears | Latching ears | Notched | Latching ears | Latching ears | Latching ears |
| Easy-On Connector | 200485 | 505110 | 200528 | 504754 | 503566 | 200485 | 200529 |
| Plating | Gold | | | | | Tin | |
| Retention Force (N)* | 20N | | | | | | |
| Max. Voltage | 60V AC | | | | | | |
| Temperature | -40 to +125°C | | | -40 to +105°C | | | |

www.molex.com/en-us/products/cable-assemblies/flat-flexible-cables-ffc

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