SOLUTION GUIDE



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. An extensive range of standard off-the-shelf and custom options enables designers to ensure reliable board-to-board connectivity in high-vibration and high-shock environments.

SOLVING INDUSTRY CHALLENGES

INDUSTRY CHALLENGE	PRODUCT SOLUTION
RELIABLE CONNECTIONS IN HARSH ENVIRONMENTS Designers need consistent connectivity in applications subject to high vibration, high shock and dynamic forces.	Premo-Flex Superior Retention Solutions offer secure connections using latching ears or notches, helping prevent unintentional disconnection in demanding applications.
CUSTOMIZATION AND VERSATILITY Manufacturers require proven flexible circuit solutions that can meet specific design and schedule needs.	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.
HIGHER TEMPERATURES Manufacturers need cables capable of performing at +125°C.	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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ADVANTAGES AND FEATURES

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
- Automotive LCD displays
- GPS devices
- Virtual cockpits
- Handheld ultrasound devices
- Insulin pumps
- Medical monitoring devices
- Handheld gaming devices

ORDERING INFORMATION

Series	15016	15018	15019	15031	15032	15077	15078	15036	15466	15467
Pitch (mm)	0.50	0.50	1.00	0.30	0.30	0.40	0.50	0.50	0.50	1.00
Current (A)	0.40	0.55	1.25	0.20	0.20	0.30	0.35	0.35	0.55	1.25
Latch Type	Notched	Latching ears	Latching ears	Notched	Latching ears	Notched	Notched	Notched	Latching ears	Latching ears
Easy-On Connector	200485	505110	200528	504754	503566	221377	221378	225019*	200485	200529
Plating	Gold								Tin	
Retention Force (N)†	20N					2.5N	3.5N	21N	20N	
Voltage (max.)	60V AC									
Temperature	-40 to +125°C	-40 to +105°C								

*FlexiSnap-15 Connector

†According to connector specifications; reference used 10 circuits

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

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