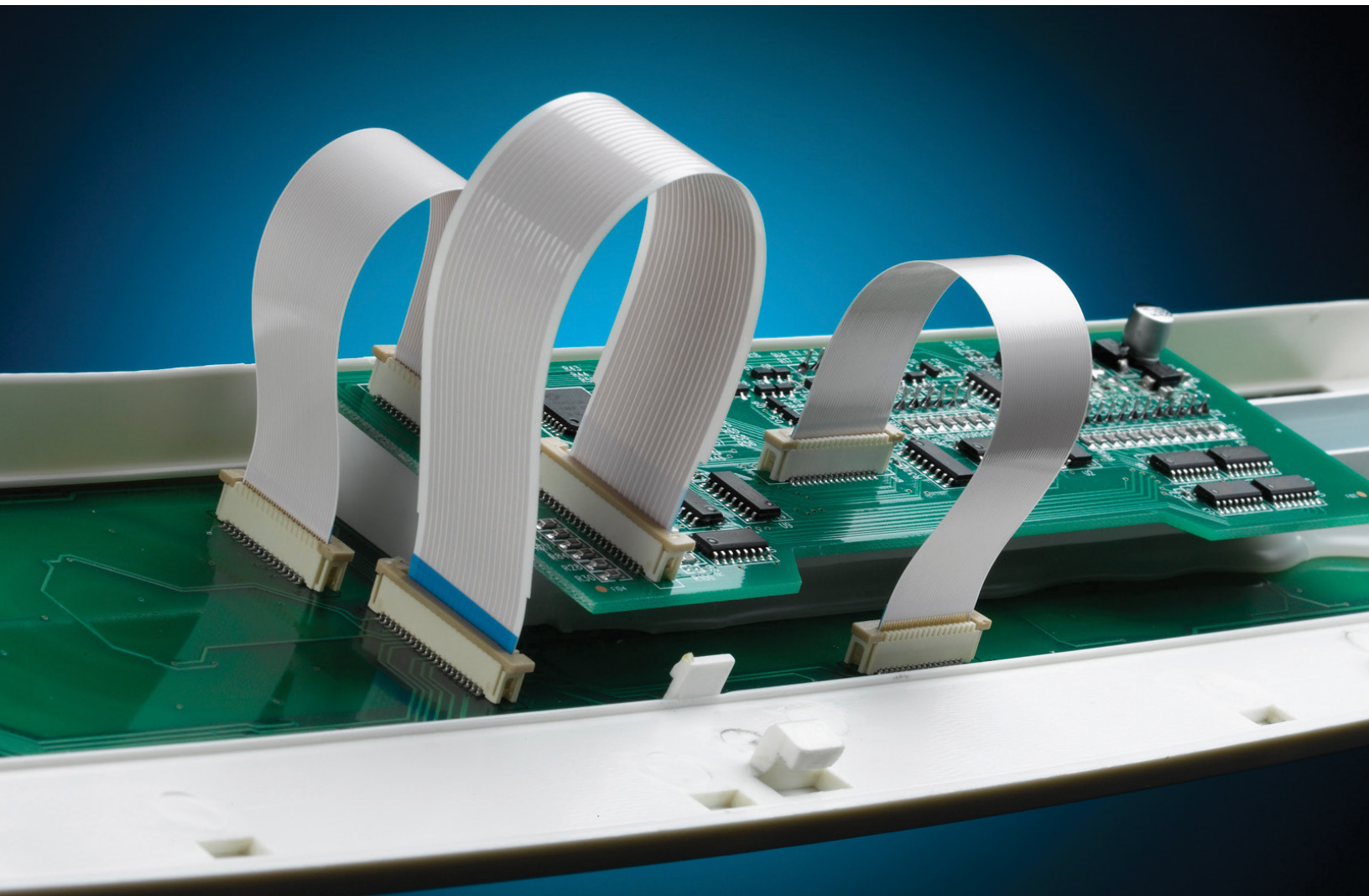molex

PREMO-FLEX
FLAT FLEXIBLE CABLES (FFC)

Premo-Flex Standard Solutions

Features and Advantages

Design Flexibility
4 to 80 Circuit Sizes
Extended Flex Cycles
10K to 2.5M
Simple Assembly

Why Molex?

One-Stop Source for All Interconnect Solutions
Customer-First Approach
Low Program Requirements
Same-Day Technical Support

FLEXIBLE				
FEATURES	**TIN PLATING**		**GOLD PLATING**	
50K Flex Life Cycles 0.27mm Insulated Thickness -40 to +105°C	SERIES	15266 | 0.50mm Pitch 15267 | 1.00mm Pitch 15268 | 1.25mm Pitch	SERIES	15020 | 0.50mm Pitch 15039 | 1.00mm Pitch 15049 | 1.25mm Pitch

 15266   **15020**

| EXTRA-FLEXIBLE		
FEATURES	**TIN PLATING**	
100K Flex Life Cycles 0.22mm Insulated Thickness -40 to +105°C	SERIES	98266 | 0.50mm Pitch 98267 | 1.00mm Pitch 98268 | 1.25mm Pitch

 98266

ULTRA-FLEXIBLE				
FEATURES	**TIN PLATING**		**GOLD PLATING**	
2.5M Flex Life Cycles 0.12mm Insulated Thickness -40 to +105°C	SERIES	15166 | 0.50mm Pitch 15167 | 1.00mm Pitch 15168 | 1.25mm Pitch	SERIES	15120 | 0.50mm Pitch

 15166

ELECTROMAGNETIC INTERFERENCE (EMI) PROTECTION		
FEATURES	**TIN PLATING**	
First and Last Pin Grounded -40 to +105°C	SERIES	15366 | 0.50mm Pitch
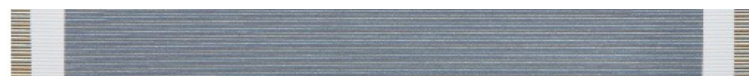
 15366

Premo-Flex Standard Solutions

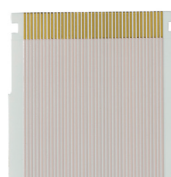| MINIATURIZATION		
FEATURES	**SERIES**	**GOLD PLATING**
0.12mm Insulated Thickness 10K+ Flex Life Cycles -40 to +105°C Staggered Pins		15014 | 0.25mm Pitch 15015 | 0.30mm Pitch 15031 | 0.30mm Pitch | Notched 15032 | 0.30mm Pitch | Latching ears
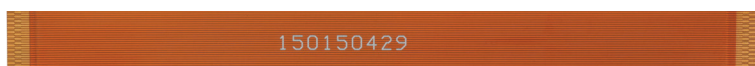
150150429   **15015**

SUPERIOR RETENTION			
FEATURES	**SERIES**	**TIN PLATING**	**GOLD PLATING**
Notched or Latching Ears -40 to +105°C		15466 | 0.50mm Pitch ⎫ 15467 | 1.00mm Pitch ⎭ Latching ears	15016 | 0.50mm Pitch | Notched 15018 | 0.50mm Pitch ⎫ 15019 | 1.00mm Pitch ⎬ Latching ears 15025 | 0.40mm Pitch ⎭ 15031 | 0.30mm Pitch | Notched 15032 | 0.30mm Pitch | Latching ears
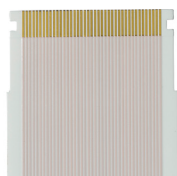
15466   **15016**   **15018**

HIGH SPEED			
FEATURES	**SERIES**	**GOLD PLATING**	**DATA SPEED**
90 & 100 Ohms Controlled Impedance 0.50mm Pitch -40 to +80°C		15021 | LVDS | Straight termination 15022 | LVDS ⎫ 15023 | LVDS ⎭ Notched 15026 | LVDS | One-Touch 15922 | LVDS | Notched	2 to 5 Gbps for 12" to 24" 5 to 10 Gbps for 2" to 10"

15021   **15022**   **15023**   **15026**

Premo-Flex Standard Solutions

DIRECT TO BOARD		
FEATURES		**TIN PLATING**
Superior Signal Integrity High Resistance to Vibration and Bending Direct Connection to PCBs -40 to +105°C	**SERIES**	15061 | 1.00mm Pitch | Round flat cable (RFC) 15067 | 1.00mm Pitch | Hot bar solder

15061 Type B

15061 Type C

15067
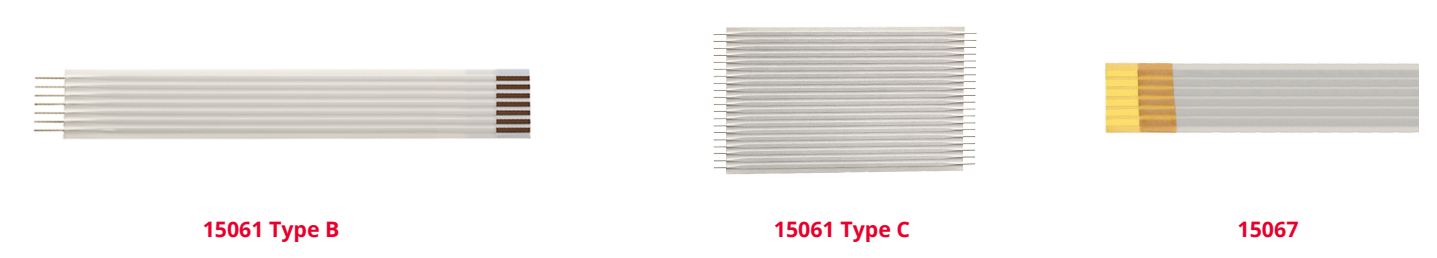
Premo-Flex Intermateable Solutions

Product Overview

Premo-Flex Intermateable Flat-Flexible Cable (FFC) Jumpers provide customers using non-Molex connectors with a robust, high-retention cable solution. Off-the-shelf FFC jumpers offer fast time to market and simplified design work, while an extensive range of custom options enables designers to meet application-specific requirements.
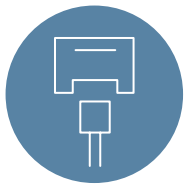
DELIVERS DESIGN FLEXIBILITY WITH INTERMATEABLE CONNECTOR OPTIONS

Premo-Flex FFC Jumpers intermateable with Hirose FH28, TF31, or FH52 zero-insertion force (ZIF) connectors are available.

INTERMATEABLE		
FEATURES		**GOLD PLATING**
Intermateable with Hirose FH28, TF31, FH52 -40 to +105°C	**SERIES**	17328 | 0.50mm Pitch 17331 | 0.50mm Pitch Latching ears 17352 | 0.50mm Pitch

17328

17331

17352
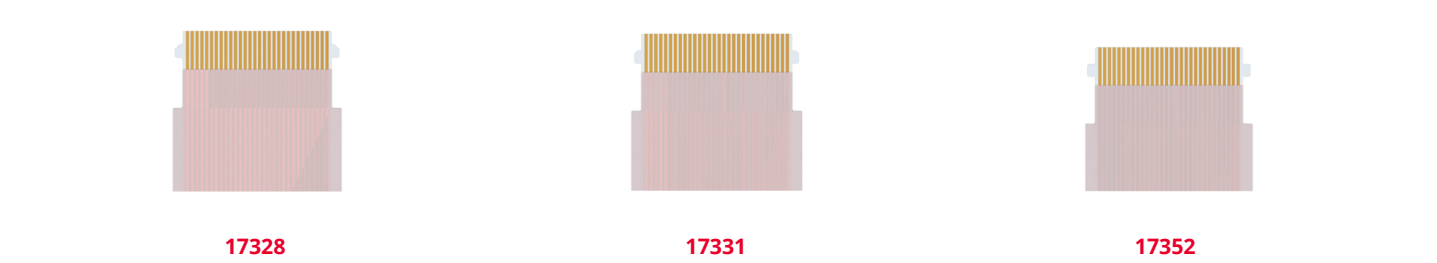
Custom Solutions

Low Program Requirements
Comprehensive Engineering Support
Free Samples in 1 to 2 Weeks

MULTIPLE
GROUNDING
POINTS

FOLDS

HYBRID
SOLUTIONS

MOLEX

CUSTOM
STIFFENER
LENGTHS

HIGH
RETENTION

PRINTED
LINES

PRINTED
TEXT

EMI
SHIELDING
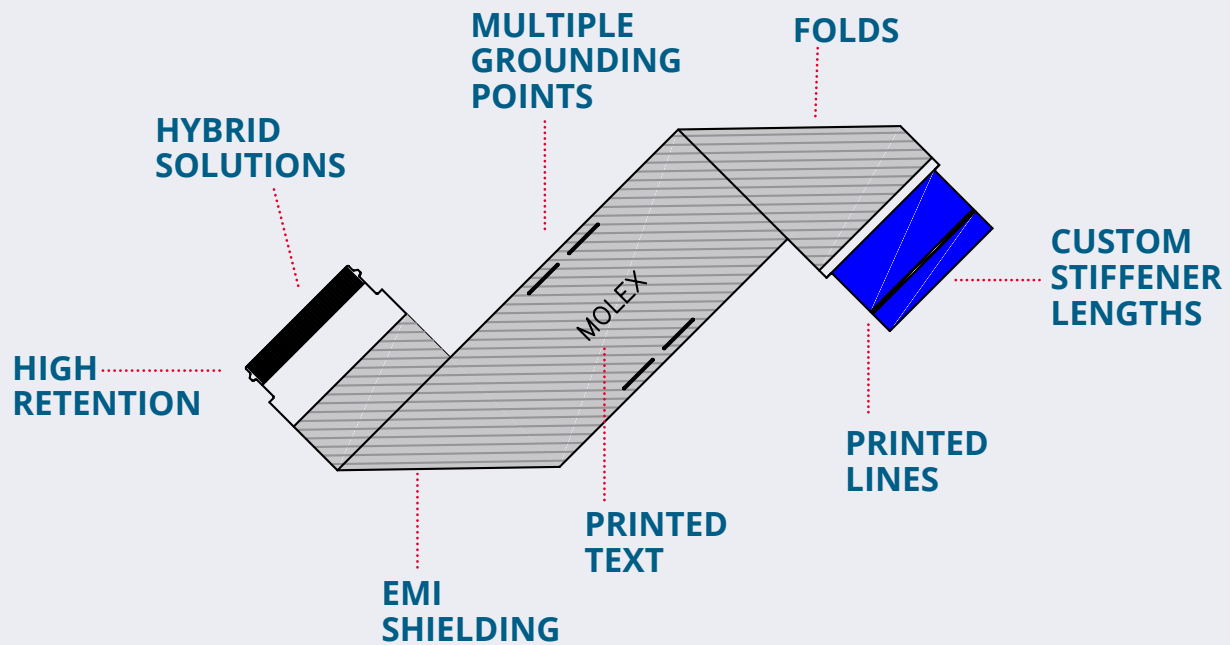
Additional Offerings

**Hybrid Solutions** have different termination options on each end for unique connection needs.

Finished Assemblies combine Premo-Flex FFC Jumpers with Easy-On FFC Flexible Printed Circuits to provide complete interconnect solutions.

Insulated Material (such as polyester, polyimide and aramid up to 125°C) enable PCB connection solutions for unique temperature and environmental conditions.
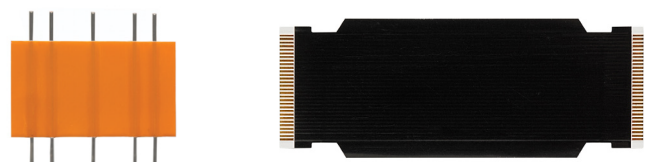
Selecting Your Premo-Flex Solution

1 **STEP 1**

Choose Your Connector
-OR-
Identify
- Pitch
- Circuit Count
- Plating

2 **STEP 2**

Determine Specifications
Length
Flex Life Cycles
Contact Layout Type
- A = Same Side Contacts
- D = Opposite Side Contacts

3 **STEP 3**

Define Additional Requirements
- Temperature
- Superior Retention
- Speed
- EMI

Smart Chart							
Series	Feature	Pitch (mm)	Plating Material	Flex Life Cycles	End Thickness (mm)	Contact Layout Type	Standard Lengths (mm)
15166	Ultra-Flex	0.50	Tin	2.5M	0.30	A and D	30 to 305
15167	Ultra-Flex	1.00	Tin	2.5M	0.30	A and D	30 to 305
15168	Ultra-Flex	1.25	Tin	2.5M	0.30	A and D	30 to 305
15366	Shielded	0.50	Tin	1M	0.30	A and D	30 to 305
98266	Extra-Flexible	0.50	Tin	100K	0.30	A and D	30 to 305
98267	Extra-Flexible	1.00	Tin	100K	0.30	A and D	30 to 305
98268	Extra-Flexible	1.25	Tin	100K	0.30	A and D	30 to 305
15266	Flexible	0.50	Tin	50K	0.30	A and D	30 to 305
15267	Flexible	1.00	Tin	50K	0.30	A and D	30 to 305
15268	Flexible	1.25	Tin	50K	0.30	A and D	30 to 305
15466	High Retention	0.50	Tin	100K	0.30	A and D	30 to 305
15467	High Retention	1.00	Tin	100K	0.30	A and D	51 to 305
15018	High Retention	0.50	Gold	100K	0.30	A and D	51 to 305
15120	Ultra-Flex	0.50	Gold	2.5M	0.30	A and D	30 to 305
15020	Flexible	0.50	Gold	50K	0.30	A and D	30 to 305
15039	Flexible	1.00	Gold	50K	0.30	A and D	30 to 305
15049	Flexible	1.25	Gold	50K	0.30	A and D	30 to 305
15016	High Retention	0.50	Gold	2.5M	0.30	A and D	30 to 305
15025	High Retention	0.40	Gold	2.5M	0.30	A and D	51 to 305
15019	High Retention	1.00	Gold	100K	0.30	A and D	51 to 305
15031	Miniaturization / High Retention	0.30	Gold	10K+	0.20	A	51 to 305
15032	Miniaturization / High Retention	0.30	Gold	10K+	0.20	A	51 to 305
15015	Miniaturization	0.30	Gold	10K+	0.20	A	51 to 305
15014	Miniaturization	0.25	Gold	10K+	0.20	A	51 to 305

High Speed (LVDS) Smart Chart

Series	Notched	Pitch (mm)	Plating Material	Mating Connectors	Temperature	End Thickness (mm)	Contact Layout Type	Controlled Impedance	Standard Lengths (mm)
15021	No			502231, 502244		0.30			
15022	Yes			501786, 501864	-40 to +80°C			100 Ohm	
15023	Yes	0.50	Gold	503908		0.33	A		51 to 610
15026	Yes			200485	-40 to +105°C				
15922	Yes			501786, 501864	-40 to +80°C	0.30		90 Ohm	

Direct to Board Smart Chart

Series	Cable Type	Pitch (mm)	Plating Material	Temperature	Circuits	Length (mm)	Wire Gauge (AWG)	Current	Voltage	Pin Diameter	Conductor Width (mm)
15061	RFC				2 - 50	25 to 305	24			0.32	
15067	Hot Bar Solder	1.00	Tin	-40 to +105°C	3 - 40	30 to 305	N/A	1.25A	60 V AC	N/A	0.70

A Cable Designed for Every Industry

CONSUMER
Cameras, drones, phones, handheld gaming devices, home appliances, TVs

MEDICAL
Handheld ultrasound, infusion pumps, medication dispensers, monitoring systems

DATACOM
Printers, scanners, keyboards, servers, routers, computers

AUTOMOTIVE
Infotainment, LCD displays, GPS devices

INDUSTRIAL
Robotics, generators, cooling systems

Get customized insights at: **molex.com keyword Premo-Flex**

LOOKING FOR MORE INFO?
Scan for full specification details!