

# Premo-Flex Cable Jumper Assemblies



**Premo-Flex LVDS Cable Jumper Assemblies provide off-the-shelf availability and deliver high data speeds with a robust connection, making them effective in a wide range of applications**

## Features and Benefits

Standard low-voltage differential signal (LVDS) FFC assemblies

Streamlined procurement of cable jumper assembly and connector through Molex. LVDS FFC connectors deliver a robust and superior signal integrity performance over long distances. Ideal for applications such as large displays and high-definition (HD) TVs

Off-the-shelf availability

Shortens design time. Simplifies manufacturing processes for LVDS applications

Cable jumper assembly options include: 1-piece (15, 24 and 33 circuits), 2-piece (30, 50 and 80 circuits) and 1-touch LVDS (41 and 51 circuits)

Offer design flexibility. Two-piece system provides strong retention. One-piece available as notched and straight and with high circuit sizes

100-Ohms-controlled impedance

Suitable for HD video displays

Higher data speed over standard FFC

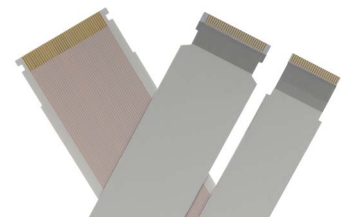
50.80-to-254.00mm (2 -to-10-inch) cable jumper assemblies deliver 5 to 10 Gbps; 304.80-to-355.60mm (12- to-24-inch) deliver 2 to 5 Gbps

Notching feature available on cable

The notches offer positioning and locking assistance for proper connection to mating connectors



Premo-Flex Cable Jumper Assemblies with LVDS Connectors



Premo-Flex Cable LVDS Jumpers

## Applications

### Automotive

- Radio, CD, DVD, GPS devices
- Car Infotainment

### Consumer / Home Appliance

- Handheld devices
- Videogaming Systems
- Camcorders

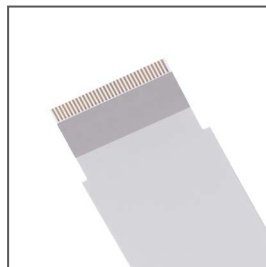
### Data / Computing

- Notebooks
- Printers
- Scanners
- Keyboards
- LCD flat panels

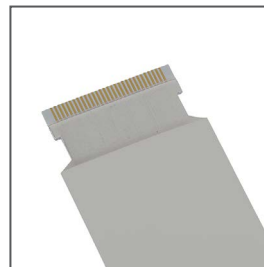
### Industrial

### Medical

### Aerospace and Defense



Series 15021 – not notched



Series 15022 – notched



Series 15023 – notched



Flat-panel TVs



Videogaming systems



Car Infotainment

# Premo-Flex Cable Jumper Assemblies



## Specifications - LVDS Cable Assemblies with Flat Flexible Cable (FFC) or Etched Polyimide

### REFERENCE INFORMATION

Packaging: Box  
 Flame Resistance: UL 758 WV-1  
 Use With: One piece: LVDS cable that mates with 0.50mm pitch LVDS connector series [502231](#) and [502244](#)  
 Two piece: Notched cable that mates with connector series [501864](#) and [501786](#) using a plug jacket and cover arrangement  
 One touch: series [502908](#)  
 RoHS: Yes  
 Halogen Free: Yes

### ELECTRICAL

Voltage: 30V AC max.  
 Dielectric withstanding voltage conductor to shield: 200 VAC RMS (for 1 minute)  
 Insulation resistance (min.): 10 Megaohms (200V DC)  
 Controlled impedance: 90 or 100 Ohm

### PHYSICAL

Plating Material: Gold  
 Operating Temperature: -40 to +80°C  
 Humidity resistance: 48H -85C / 95% humidity  
 Black insulation available  
 Flexible construction for dynamic applications

## Ordering Information

Cable Jumper Series No.	Mates with Connector Series	Pitch (mm)	Speed	End Thickness (mm)	Impedance (Ohms)	Circuits	Notched	Cable Lengths (mm)
<a href="#">15021</a>	<a href="#">502231</a> <a href="#">502244</a>	0.5	50.80-to-254.00mm (2-to-10-inch) cable jumper assemblies deliver 5 to 10 Gbps; 304.80-to 355.60mm (12-to-24-inch) deliver 2 to 5 Gbps	0.30 +/- 0.05	90 or 100 +/- 10	15, 24 or 33	No	50.80 (2") 101.60 (4") 152.40 (6") 203.20 (8") 254.00 (10") 304.80 (12") 609.60 (24")
<a href="#">15022*</a>	<a href="#">501786</a> using a plug jacket and cover <a href="#">501864</a> using plug jacket and cover					30, 50 or 80	Yes	
<a href="#">15023*</a>	<a href="#">503908</a>			41 or 51				

\*NOTE: Notching on the 15022 cable is used as a positioning and locking feature once assembled with the plug jacket (series 501783) and jacket cover (series 501784) to be a cable assembly. Plug jacket series 501783 has the locking latch on the housing.

\*NOTE: Notching on the 15023 cable is for the cable lock inserted into mating connector series 503908. The mating connector 503908 is a non-zif connector and does not require a plug jacket

[www.molex.com/product/premoflex\\_ffc-fpc.html](http://www.molex.com/product/premoflex_ffc-fpc.html)

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