



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# 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

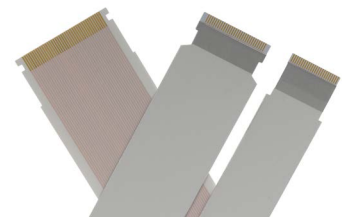
50.80-to-254.00mm (2 -to-10-inch) cable jumper assemblies deliver 5 to 10 Gbps; 304.80-to-355.60mm (12- to-24-inch) deliver 2 to 5 Gbps

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

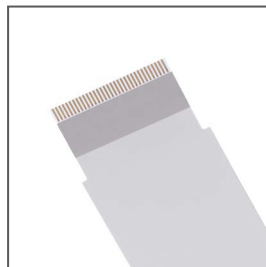
### Data / Computing

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

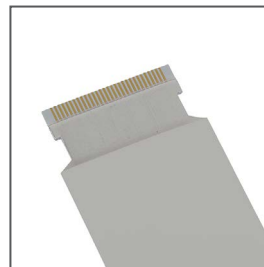
### Industrial

### 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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