

Premo-Flex™ Cable Jumper Assemblies

molex®

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)

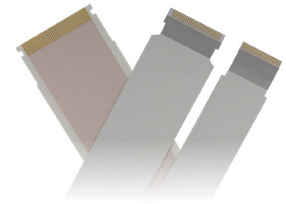
Offer design flexibility. Two-piece system provides strong retention. One-piece available as notched and straight and with high circuit sizes

100-Ohms-controlled impedance

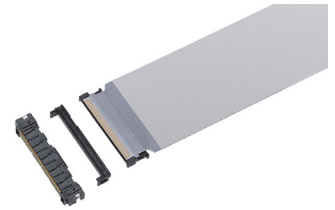
Suitable for HD video displays

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



Premo-Flex™ LVDS Jumpers



Premo-Flex™ Cable Jumper Assemblies with LVDS Connectors

Applications

Automotive

- Radio, CD, DVD, GPS devices
- LCD displays
- Keyboards
- Moveable units

Consumer / Home Appliance

- Handheld devices
- Set top boxes
- Camcorders
- Plasma displays

Data / Computing

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

Industrial

Medical

Aerospace and Defense



LCD Displays



Consumer Handheld Devices



Automotive Electronics

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 [503908](#)
 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)
15021	502231 502244	0.5	50.80 to 254.00mm (2 to 10") 5 to 10 Gbps 304.80 to 355.60mm (12 to 14") 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")
15022	501786 using a plug jacket and cover 501864 using plug jacket and cover					30, 50 or 80	Yes	
15023	503908			41 or 51				