Premo-Flex Cable Jumper Assemblies

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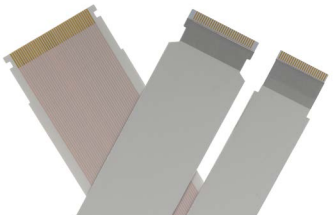
Premo-Flex LVDS Cable Jumper Assemblies provide off-the-shelf availability and deliver high data speeds with a robust connection, making them effective in a wide range of applications

Premo-Flex Cable Jumper Assemblies with LVDS Connectors



Premo-Flex Cable LVDS Jumpers

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

Applications

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

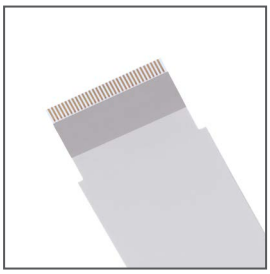
Consumer / Home Appliance
- Handheld devices
- Videogaming Systems
- Camcorders

Data / Computing
- Notebooks
- Printers
- Scanners
- Keyboards
- LCD flat panels

Industrial

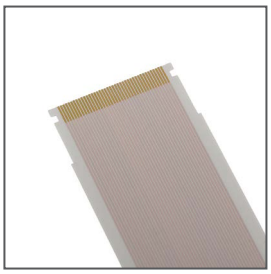
Medical

Aerospace and Defense



Series 15021 – not notched

Series 15022 – notched



Series 15023 – notched

Flat-panel TVs

Videogaming systems

Car Infotainment

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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)
15021	502231 502244	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")
15022*	501786 using a plug jacket and cover 501864 using plug jacket and cover					30, 50 or 80	Yes	
15023*	503908			0.33 +/- 0.03		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

Order No. 987651-3802 Rev. 5 USA/0k/GF/2018.02