

Premo-Flex Shielded Flat Flexible Cable (FFC) Jumpers >

The Premo-Flex Shielded Flat Flexible Cable Jumpers family of products offers a wide range of standard options for applications requiring protection from electromagnetic interference (EMI)

FEATURES AND ADVANTAGES

Shielded cable

Protects against connectivity disturbance due to EMI, signal loss and potential functional failures (outside of shield is not conductive).

Grounded pins

Has first and last pin grounded, which enhances EMI protection

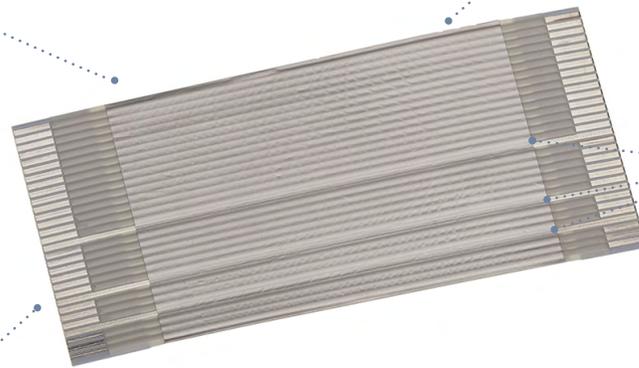
Tin plating

Delivers economical connectivity

Cable shown with three grounding points as a custom solution

Custom capabilities available

Meet needs of specific applications with customizations, such as solderability, bends and folds, and more



Premo-Flex Shielded Flat Flexible Cable Jumper

Low-profile, ultrathin foil Aluminum shielding and fine pitch (0.50mm)

Is ideal for space-constrained applications

MARKETS AND APPLICATIONS

Consumer

- Cameras
- Phones
- Handheld gaming devices
- Home appliances
- TVs

Automotive

- Infotainment systems
- LCD displays
- GPS devices



Home Appliances



Patient Monitoring Device

Medical

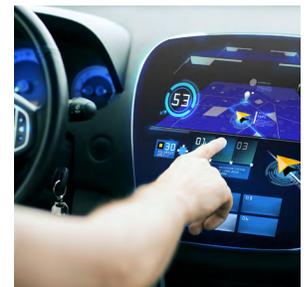
- Handheld ultrasound
- Infusion pumps
- Medication dispensers
- Monitoring systems

Industrial

- Robotics
- Generators
- Cooling systems



Printer



Automotive Infotainment System

Datacom

- Printers
- Scanners
- Keyboards
- Servers
- Routers
- Computers

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SPECIFICATIONS

Reference Information

Designed In: Millimeters

RoHS: Yes

Physical

Contact: Tin-Plated Copper

Insulation Tape: Polyester (White) and Flame-Retardant Adhesive

Reinforcement Tape: Polyester (Blue)

Shielding Tape: Aluminum Tape with Polyester Insulation (Blue)

Electrical

Impedance:

Conductor-Conductor @1 KHz: 67 Ohms

Conductor-Shield @1 KHz: 45 Ohms

Capacitance:

Conductor-Conductor @1 KHz: 230 pF/m

Conductor-Shield @1 KHz: 470 pF/m

Insulation Resistance:

Conductor-Conductor: 10 Megohms

Conductor (Non-Shielded)-Shield: 10 Megohms

Dielectric Withstanding Voltage AC:

Conductor-Conductor: 200V AC

Conductor (Non-Shielded)-Shield: 200V AC

Current: 0.5A

Mechanical

Operating Temperature: -40 to +105°C

Heat Resistance:

Dielectric Withstanding: 113°C for 168 hours

Insulation Resistance: 138°C for 168 hours

Moisture Resistance: Exposed to 60°C for 96 hours, relative humidity 95%

Folding: Specimen folded at 180° bending angle 20 times

ORDERING INFORMATION

MATES WITH THESE EASY-ON CONNECTORS

Series No.	Description
52435	Easy-On FFC/FPC Connector, 0.50mm Pitch, Slider Series, Right-Angle, Top Contact, 2.00mm Height, Tin Plating
54104	Easy-On FFC/FPC Connector, 0.50mm Pitch, Slider Series, Right-Angle, Top Contact, 2.00mm Height, Tin Plating
52437	Easy-On FFC/FPC Connector, 0.50mm Pitch, Slider Series, Right-Angle, Bottom Contact, 2.00mm Height, Tin Plating
54132	Easy-On FFC/FPC Connector, 0.50mm Pitch, Slider Series, Right-Angle, Bottom Contact, 2.00mm Height, Tin Plating
501951	Easy-On FFC/FPC Connector, 0.50mm Pitch, V-Flip Series, Vertical, 4.05mm Height, Tin Plating
52745	Easy-On FFC/FPC Connector, 0.50mm Pitch, Slider Series, Right-Angle, Top Contact, 2.00mm Height, Tin Plating
52746	Easy-On FFC/FPC Connector, 0.50mm Pitch, Slider Series, Right-Angle, Bottom Contact, 2.00mm Height, Tin Plating
52559	Easy-On FFC/FPC Connector, 0.50mm Pitch, Slider Series, Vertical, 3.90mm Height, Tin Plating
503480	Easy-On FFC/FPC Connector, 0.50mm Pitch, FBH1 Series, Right-Angle, Dual Contact, 1.00mm Height
78119	0.50mm Pitch Easy-On FFC/FPC Connector, Surface Mount, Vertical, Non-ZIF, Standard Footprint, Tin Bismuth Plating, Short Terminal Type, Black
78127	0.50mm Pitch Easy-On FFC/FPC Connector, Surface Mount, Vertical, Non-ZIF, Reverse Footprint, Tin Bismuth Plating, Long Terminal Type, Black
52892	0.50mm Pitch Easy-On FFC/FPC Connector, Right-Angle, Surface Mount, ZIF, Bottom Contact Style, Cable Retention Guide

Note: When ordering, the cable contact plating should match the connector contact plating.

www.molex.com/product/premoflex_ffc-fpc.html