

Halogen-Free 0.5 mm Pitch FPC/FFC Connector

MDT Staff



Hirose Electric, a leader in the development of innovative connector solutions, has developed a 0.5 mm pitch, zero-insertion force connector for applications that utilize both, flexible printed circuit (FPC) or flexible flat cable (FFC). The FH52 Series features a unique design that increases the retention force on the FFC/FPC while making the positioning and insertion of the cable easier. The design of this connector is highlighted by its robust locking structure, a structure that provides stability and excellent actuator retention.

The 0.5 mm pitch FH52 Series boasts a mated height of 2 mm and an actuator opening that simplifies the FPC/FFC insertion process by allowing the actuator to rotate up to 110°. “Side catches” were designed into this connector to do all of the following, hold the tabbed FPC/FFC in place, increase the retention forces placed onto the FFC/FPC, provide a guide for positioning, and to maintain a consistent connection. The FH52 Series provides a high retention force of up to 29.01N.

The FH52 Series has a fully enclosed molded structure that includes on its bottom side, this enables the board area under the connector to be used for PCB patterning. The locking mechanism delivers a firm, clear tactile click that verifies the completion of the locking process and reaffirms a safe and reliable connection.

“The FH52 Series delivers a reliable solution for a wide range of applications that need a robust and rugged FPC/FFC connector,” said Rick van Weezel, Vice President of Sales & Marketing at Hirose Electric USA. “This connector is easy to operate and its locking mechanism provides the assurance of a secure and stable connection.”

With a low profile of 2 mm, the FH52 Series connectors are available from 8 to 60 (8,10, 11, 12,15,18, 25, 28, 30, 32, 35, 40, 42, 45, 50, 60) positions with an operating temperature range from -40°C to +85°C.

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Published on Medical Design Technology (<http://www.mdtmag.com>)

The FH52 Series FFC/FPC connector is ideal for white and brown goods, including audio/video/recording devices, car navigation and audio, notebook PCs, game machines, portable medical devices, optical drives, industrial control units, set-top boxes, satellite receivers and LCD TVs, Digital TVs, multifunction printers, PPCs and PDPs.

In addition, the FH52 connector satisfies halogen-free requirements and is flame-retardant to UL94V-0 specifications.

For more information, visit www.hiroseusa.com [1].

Source URL (retrieved on 12/20/2014 - 12:23pm):

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[1] <http://www.hiroseusa.com>