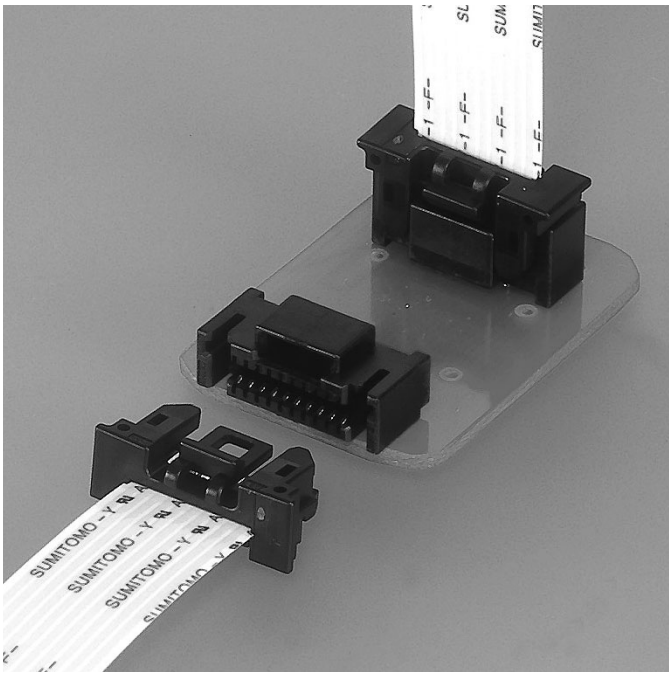
FOX CONNECTOR

Connectors for FPC and FFC



The FOX connector for FFC achieves high operability on the automobile assembly process.
In addition, locking structure is provided on the FFC side to improve reliability of the connector.

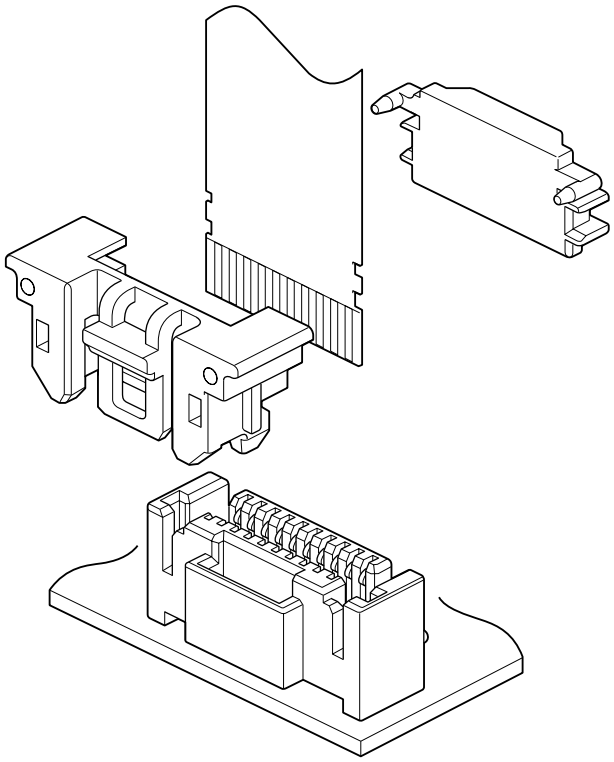
Features

●Reliable locking structure
Locking structure is provided on the FFC side to prevent incomplete mating and improve FFC retention force greatly.

●High resistance to scooping (kojiri)
This connector has high resistance to scooping (kojiri) insertion and withdrawal as well as general connectors for automobile by mounting a plug housing and a retainer on the FFC side.

●Temporary board retention feature
The connector can be temporarily held on a printed circuit board by clinching the contact solder tail. It prevents lifting of the connector.

●Two types of connections
This connector is available in top and side entry type depending on its mounting designs.

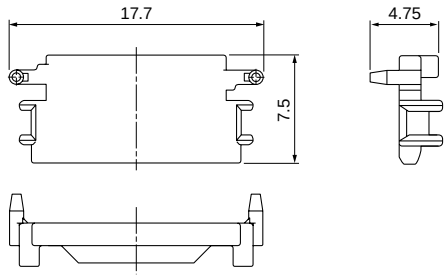


Specifications

- Current rating: 1.5A AC, DC
- Voltage rating: 12V AC, DC
- Temperature range: –40°C to +90°C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10mΩ max.
  After environmental testing/30mΩ max.
- Insulation resistance: 100MΩ min.
- Withstanding voltage: 500V AC/minute
- Applicable FFC: Lead material/Tin-plated annealed copper foil
  Lead pitch/1.25mm
  Lead width/0.8mm
  Mating part thickness/0.3±0.05mm
- Applicable PC board: Thickness/1.6mm
  Hole size/0.8±0.1mm (Through-hole)

∗ Compliant with ELV/RoHS.
∗ Contact JST for details.

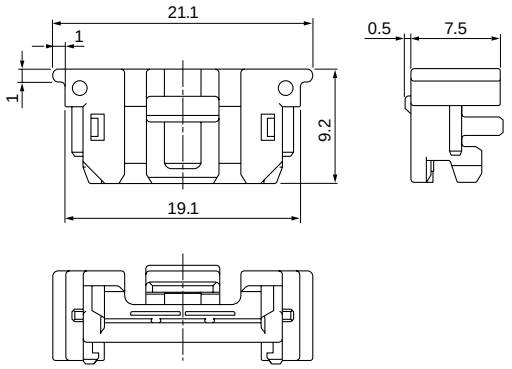
Plug housing



Circuits	Model No.	Q'ty/box
10	**FOXP-10K**	500

Material
Glass-filled PPS, black

Retainer

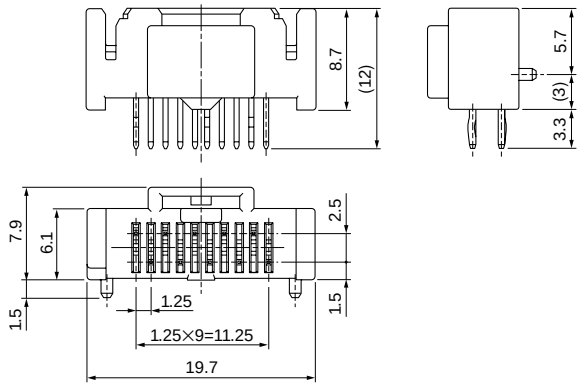


Circuits	Model No.	Q'ty/bag
10	**FOXS-10K**	500

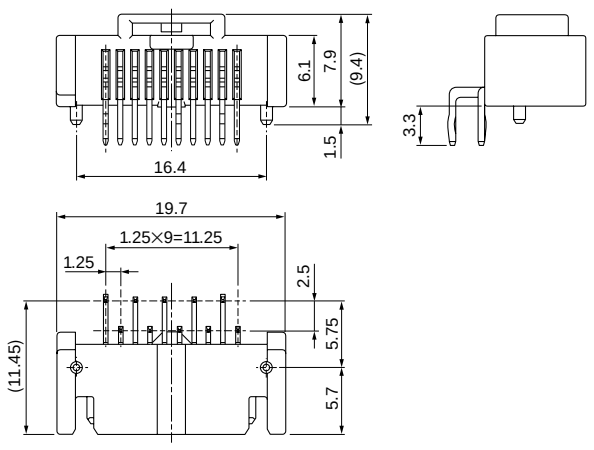
Material
Glass-filled PPS, black

Header

Top entry type



Side entry type

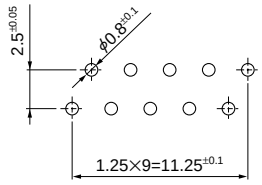


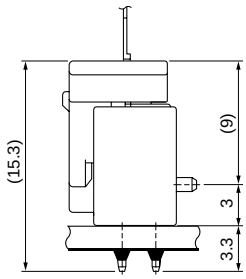
Circuits	Model No.		Q'ty/box
	Top entry type	Side entry type	
10	**B10-FOXK-LF**	**S10-FOXK-LF**	231

Material and Finish
Terminal: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Housing: Glass-filled PPS, black

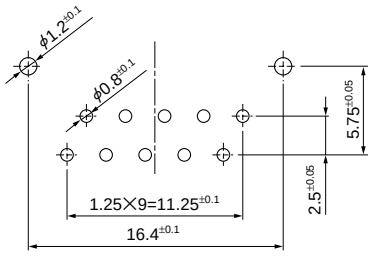
PC board layout, Assembly layout

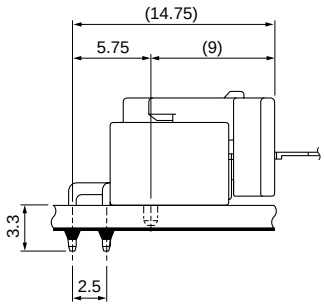
Top entry type

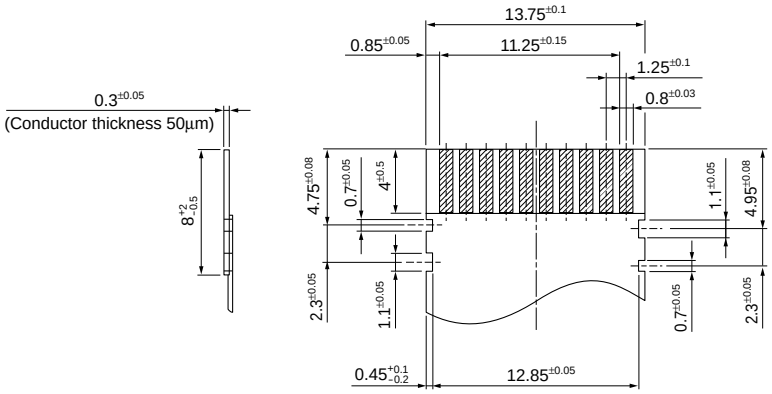




Side entry type





Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the type of PC board and piercing method.
The dimensions above should serve as guideline. Contact JST for details.

Lead section dimensions of FPC