

Plug-in Screw Connector Systems for Printed Circuit Boards

Series 97-FBW, 97-FBS and 97-K

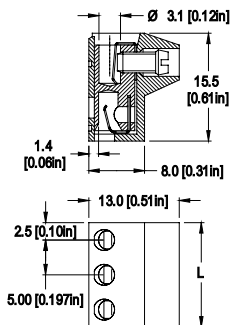
Types 971-FBS (-DS)

5 mm spacing • 2 to 24 poles



971-FBS (-DS)

One possible variation of assembly



Dimensions: mm (in.) When locating connector, allow 0.5 mm clearance around it for process-induced variations.
Length of Connector (L) L = No. of Poles x Center to Center Spacing

DESCRIPTION

- **Plug**
- Plug-In Direction and Wire Entrance Parallel to PCB when plugged with 950-SVG (-DS), 951-B-SV (-DS)
- Plug-In Direction and Wire Entrance Perpendicular to PCB when plugged with 971-FBSP, 971-SLK /-SLS /-SLW

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.) Wire Stripping length: 6.5 mm (0.26 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²)

APPROVAL INFORMATION

File No.	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
UL File No.: E69841	UL	20	300	26-12	B,D	max. 4.5 lbf.in.
CSA File No.: LR24322	CSA	15	300	22-10	B,D,E	max. 0.51 Nm

971-FBS-DS is CSA certified for 26-14 AWG.
UL: 24-26 AWG range for factory wiring only.
International Approvals:
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

Self extinguishing to UL 94, V-0, grey 2 to 12 pole 13 to 24 pole

MOLDING: 2 to 12 pole: Polyamide
13 to 24 pole: Polyamide (glass fiber reinforced)

TEMPERATURE LIMITS:	Short time:	140°C (284°F)	200°C (392°F)
Continuous:	RTI 105°C (221°F)	RTI 105°C (221°F)	
Low limit:	-40°C (-40°F)	-40°C (-40°F)	
Comparative Tracking Index:	CTI > 600	CTI > 175	
Oxygen Index Rating:	32%	33%	

Terminal Body: tin plated copper alloy
Wire Protector: tin plated copper alloy
Spring Clip: stainless steel strip
Screw: yellow chromate passivated, zinc plated, steel, M3

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.
- Jumper, Type 970-J1.
- Jumper, Type 970-J2.
- LST Single Pins.

OPTIONS See How to Order. If more than one option is required, please separate each option with a dash (-).



CN: Consecutive Numbering (hot stamped White numbers)
SIM: Special Marking (please provide sketch)
PS: Clear chromate passivated, zinc plated, steel screws
WG: Wire Guide
G05: Gold Plating (5 micro inches)
G30: Gold Plating (30 micro inches)
S30: Silver Plating (30 micro inches)
(Plated components: terminal body)

HOW TO ORDER

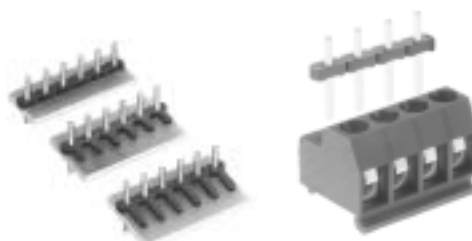
WIRE PROTECTOR:	POLES:	OPTIONS:
with: - DS	02 to 24	CN, SIM, PS, WG, G05, G30, S30

971-FBS	/	-
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Series 97-FBW, 97-FBS and 97-K

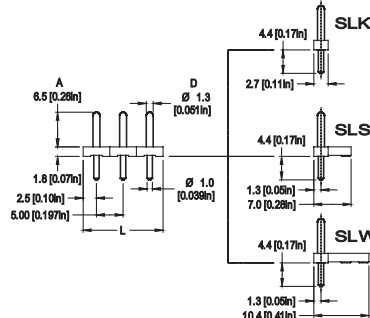
Types 971-SLK /-SLS /-SLW

5 mm spacing • 2 to 64 poles



971-SLK, 971-SLS, 971-SLW

One possible variation of assembly



Dimensions: mm (in.) When locating connector, allow 0.5 mm clearance around it for process-induced variations.
Length of Pinstrip (L) L = No. of Poles x Center to Center Spacing

Other options:

In Ø1.10 mm diameter (D),
the following protruding lengths (A) are available: 7.8, 10.3, 11.0, 11.7, 11.9, 12.5, 14.2, 14.7 and 15.7 mm.
In Ø1.15 mm diameter (D),
the following protruding lengths (A) are available: 6.5 and 14.7 mm.
In Ø1.30 mm diameter (D), the following protruding lengths (A) are available:
6.5, 7.2, 7.7, 7.8, 8.5, 10.5, 11.0, 16.5, 19.8, 21.5, 22.0 and 29.0 mm.

DESCRIPTION

- **Pinstrip**
- Plug-In Direction and Wire Entrance Perpendicular to PCB when plugged with 971-FBS (-DS)
- Plug-In Direction Perpendicular to PCB and Wire Entrance Parallel to PCB when plugged with 950-FL-DS, 950-TFL-DS, 950-NAF, 950-GFL-DS, 950-NLFL-DS and 970-FBW (-DS)

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.) Recommended Hole Ø in PCB: 1.3 mm (0.051 in.)

APPROVAL INFORMATION

File No.	Rating	Current (A)	Voltage (V)	Application Group
UL File No.: E69841	UL	20	300	B,D
CSA File No.: LR24322	CSA	10	300	B,D,E

MATERIAL

MOLDING: PBT GF, self extinguishing to UL 94, V-0, black
TEMPERATURE LIMITS: Short time: 200°C (392°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 175
Oxygen Index Rating: 32%

Solder Pin: tin plated copper alloy, solder side: 1 mm (0.04 in.), plug-in side: 1.3 mm (0.051 in.)

OPTIONS See How to Order. If more than one option is required, please separate each option with a dash (-).

G05: Gold Plating (5 micro inches)
G30: Gold Plating (30 micro inches)
S30: Silver Plating (30 micro inches)
(Plated components: solder pin)
Alternate pin lengths and diameters (Please consult factory for available sizes).

HOW TO ORDER

BASE WIDTH:	POLES:	OPTIONS:
2.7 mm: K 7 mm: S 10.4 mm: W	02 to 64	G05, G30, S30

971-SL	/	-
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