

## Plug-in Screw Connector System for Printed Circuit Boards

377-STFB (-DS) | 10.00 mm (0.394 in) Spacing - 2 poles

### PICTURES



377-STFB-DS



377-STG & 377-STFB-DS

### TECHNICAL INFORMATION

#### Description

The socket contact is split into four fingers and is reinforced by a spring sleeve to ensure a high contact force reliable vibration resistant connection.

Plug

Power connector

#### Technical Data

**Center to Center Spacing:** 10.000 mm (0.394 in)

**Nominal Cross Section:** 16 mm<sup>2</sup> (24800 mils<sup>2</sup>)

**Wire Stripping Length:** 9.000 mm (0.355 in)

#### Bill of Materials

**Molding :** Polyamide, Self extinguishing UL 94, V-0

**Color :** Black

**Temperature limits :**

**Short Time :** 200°C (392°F)

**Continuous :** 105°C (221°F)

**Low Limit :** -40°C (-40°F)

**Comparative Tracking Index :** CTI ? 600 V

**Oxygen Index Rating :** 31 %

**Terminal Body:** Nickel plated copper alloy

: Tin plated copper alloy

**Screw:** Slotted head, zinc plated blue passivated, steel substrate M5

**Spring Sleeve:** Zinc plated, steel



#### Application

This product family is being used in car audio systems requiring high current flows for both power input and sound output. They can be used as power connectors in a variety of heavy-duty applications.

The recommended PCB hole has been chosen for a press-fit to assure stability in the wave soldering process.

## APPROVAL INFORMATION

UL File No. E69841 | CSA File No. LR24322

Type	Current (A)	Voltage (V)	Application Group	AWG	Screw Tightening Torque
 377-STFB (-DS) 10.0 mm	55	300	B, D	14-6	18 lbfin
 377-STFB (-DS) 10.0 mm	55 10	300 300	B D, E	14-6 14-6	2.0 lbfin 2.0 lbfin

### International Approval Information

Rated Impulse Withstand Voltage : 4000 V

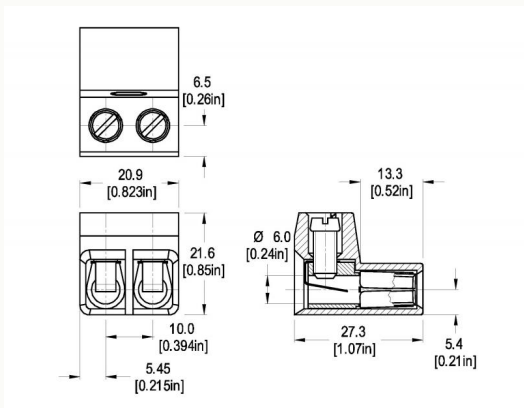
## PLUGGING PARTS

**Plug-In Direction and Wire Entrance Parallel to PCB**



**TYPE 377-STG**  
Variable spacing - poles

## TECHNICAL DRAWING



### Description :

Length of Connector (L)

$L = \text{No. of Poles} \times \text{Center to Center Spacing} + 0.9 \text{ mm}$

**SECTION A - SERIES 37****Terminal Blocks for Printed Circuit Boards**

Series 37 terminal blocks were designed to allow the use of larger current ratings than the usual printed circuit board connector. The 374 is approved to 20A and the 377/378 to 50A the 377 can handle wiring up to 8 AWG, the 378 to 6 AWG.

While this connection system consists of two separate parts, the -STG solder pin and the -STFB screw connector body, the two parts are very difficult to separate once soldered to the PCB. The mass of the STG pin and its two solder points require a higher temperature than the STFB connector can withstand the usual process is to use hand soldering equipment. The two parts can be joined after the solder operation.

Each product has a "How To Order" area as well as a complete listing of UL and CSA approval specifications, available options and accessories.