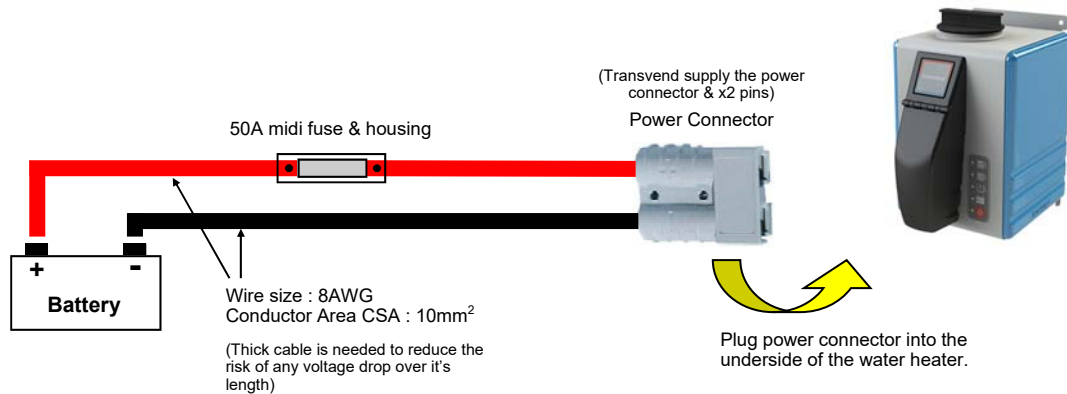
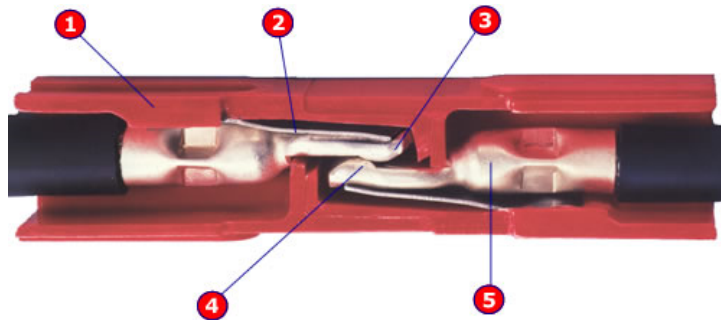


## Wiring your Transvend water heater



## Power Connection

### Cross section of power connectors and pins



- 1 Genderless, Polycarbonate, V0 flammability, impact resistant housing.
- 2 Stainless steel leaf spring maintains constant contact pressure in high vibration applications and provides quick 'snap' action when connecting/disconnecting.
- 3 Contact profile produces self wiping action which helps to keep contact surfaces clean. Any arcing in 'Hot Plug' situations is limited to the contact tips and not the contact surfaces.
- 4 Contact detent ensures good contact surface area at all times reducing resistance.
- 5 Highly conductive silver (and tin) plated copper contacts reduce resistance

## Fuse information

When installing Transvend equipment it is important to fuse the water heater correctly.

Transvend recommend the use of either a strip fuse and the associated housing or a automotive Midi Fuse.

Make sure that the fuse is rated in accordance with the water heater specification.



# SB<sup>®</sup>50 Connector

The innovative SB<sup>®</sup> connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

APP's 2 pole connector is available with a 50 amp rating, 600 Volts continuous AC or DC operation. There are SB<sup>®</sup> connectors for many applications and wire sizes, #6 to #16 AWG (13.3 mm to 1.3 mm). Mechanical keys ensure connectors will only mate with connectors of the same color. Different color housings are selected to identify voltages, thus preventing mismatching of the power supply system.

## FEATURES

- Mechanical keyed housings**  
*Prevents accidental mating of components operating at different voltage levels*
- Single-piece housing and unitized construction**  
*Provides industrial quality and durability*
- Genderless design**  
*Makes assembly quick and easy and reduces number of parts stocked*



## PRODUCT SPECIFICATIONS

Connector Model	SB <sup>®</sup> 50	Connector Model	SB <sup>®</sup> 50
UL Current Rating (Amperes)*	50*	Life	
UL Voltage Ratings (Volts)	600*	a. No load (Contact/Disconnect Cycles)	To 10,000
Contact Barrel Wire Size (AWG)	#6 to #16	b. Under Load (Hot Plug 250 cycles @ 120V)	50A
(mm <sup>2</sup> )	13.3 to 1.3	Avg. Connection/Disconnect - high detent	15 lbs.
Maximum Wire Insulation Diameter (inches)	0.44	- with lower extraction force	10 lbs.
(mm)	11.18	Operating Temperature Range °C**	-20° to 105°
AVG Contact Resistance* (micro-ohms)	200	Flammability Rating of Housing Material	UL94 V-0
Insulation Withstanding Test Voltage (Volts AC/DC)	2200		
Contact Retention Force (lbs)	50		

\* UL Rated for 65°C rated wire or cable size  
\*\* Contact factory for higher temperature rated connector  
SB<sup>®</sup> UL and CSA Reference: This equipment is an Underwriters Laboratories Inc<sup>®</sup> recognized component. It is also listed by the Canadian Standards Association as certified.

## DIMENSIONS

### SB<sup>®</sup>50 Housing

	-A-		-B-		-C-		-D-		-E-		-F-	
Series	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
SB <sup>®</sup> 50	19.0	0.75	6.4	0.25	18.2	0.72	36.5	1.44	47.6	1.88	80.9	3.19

	-G-		-H-		-J-	
Series	mm	in.	mm	in.	mm	in.
SB <sup>®</sup> 50	11.5	0.45	15.9	0.63	3.7	0.14

