

## BTFW Series

### RELIABLE DESIGN, ENHANCED RETENTION

Amphenol's BTFW is a floating board-to-board solution with a wide floating allowance in pitch and width direction. It is ideal for applications that require high density and high reliability.

- Wide floating allowance helps to absorb mating shift and self-alignment of the mating connectors
- Rigid entry guide design – vibration shock absorption
- Wide guide distance helps to ease blind mating



#### TARGET MARKETS



#### FEATURES

- Wide floating allowance
- Rigid entry guide design
- Wide guide distance for mating
- 1.00mm (0.039in.) staggered contact design
- Mounting plates on both sides of the plug and receptacle
- Flat top surfaces of SMT housings
- RoHS compliant and lead-free

#### BENEFITS

- Helps self-alignment of the mating connectors
- Absorbs vibration shock
- Eases blind mating
- Saves space
- Ensures PCB Retention
- Allows pickup with vacuum nozzle and eliminates the need for pickup covers that must be removed after soldering
- Meets environmental, health and safety requirements

## TECHNICAL INFORMATION

### MATERIAL

- Housing: Glass Filled Thermoplastic (UL94V-0)
  - Color: Black
- SMT plug
  - Contact: Phosphor Bronze
  - Contact Plating: Tin Alloy
- SMT and DIP receptacle
  - Contact: Brass
  - Contact Plating: Tin Alloy
- Mounting Plate
  - Contact: Brass
  - Contact Plating: Tin Alloy

### MECHANICAL PERFORMANCE

- Mating Force: 2.5N per contact max.
- Unmating Force: 0.2N per contact max.
- Contact Wipe: 1.6mm (0.063in.)

Durability: 20 mating cycles

### ELECTRICAL PERFORMANCE

- Contact Resistance: 70mΩ max. initial
- Insulation Resistance: 100MΩ min.
- Dielectric Withstanding Voltage: 500VAC RMS, 60Hz
- Current rating: 1A

### SPECIFICATIONS

- Product specification: GS-12-555

### ENVIRONMENTAL

- Operating Temperature Range: -55°C to +85°C

### PACKAGING

- Embossed tape-and-reel for SMT connectors
- Trays for DIP connectors

### TARGET MARKETS/APPLICATIONS



PDP Displayer & TV  
LCD Displayer & TV  
Set Top Box  
DVD Players/Recorder  
D-VHS Player



Entertainment PC