

# COMPACT COMBO CONNECTORS

## SIGNAL & HYBRID SOLUTIONS FOR BTB, WTW, AND WTB

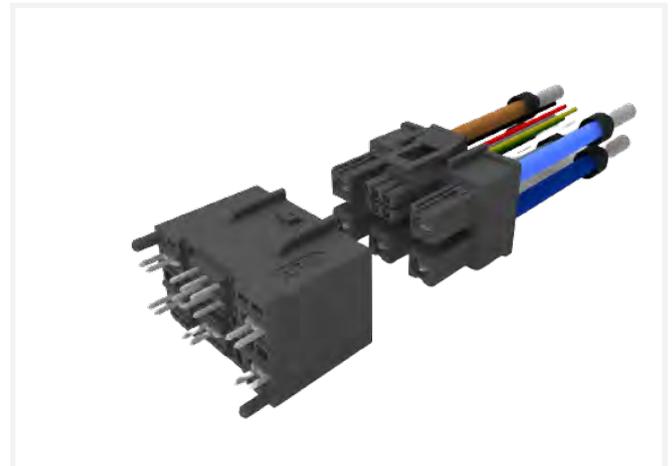
Solutions offer optimized space, high reliability with adequate creepage and clearance distances for power and allows easy to mate/crimp and cable management. The connector system offers hybrid solutions choice of signal and power loading with an active latching feature.

The connector has nominal current carrying capacity of up to 32A/pin max. for power and 1.5A to 5A/pin max. for signal. Power wire sizes ranges from 18WG to 10AWG and for signal wire sizes from 26AWG to 20AWG. Solutions up to 6 position signal and upto 5 positions power configurations with PIP and surface mount termination is available.

- Choice of Power and Signal solutions in Optimum space
- Option for Signal only or Power only
- Adequate creepage and clearance distances for power
- Easy to latch and repair
- Touch proof power
- Multiple wire sizes

### FEATURES

- Housing with Tactile locking
- Optimum current rating with touch proof
- Multiple wire sizes
- Proven Interfaces used in different segments
- Hybrid current capacity
- Colour coding on housing



### TARGET MARKETS



### BENEFITS

- Ensures secure mating retention
- Adequate creepage and clearance with safety
- Power from 14AWG & 10AWG, signal from 26AWG to 20AWG
- Reliability
- Up to 32A/pin max. for power and up to 5.5A/pin max. for signal pin
- Easy wire management

## TECHNICAL INFORMATION

### MATERIAL

- Insulator Material: Thermoplastic UL94 V0
- Contact Material: Copper Alloy

### MECHANICAL PERFORMANCE

- Signal Contact:
  - Mating Force: 4.5N max.
  - Unmating Force: 0.6N min.
- Power Contact:
  - Mating Force: 15N max.
  - Unmating Force: 4N min.

### ELECTRICAL PERFORMANCE

- Signal Contact:
  - Operating Current: 4.5A
  - Contact Resistance: 20mΩ max.
  - Insulation Resistance: 1000MΩ min.
- Power Contact:
  - Contact Resistance: 4mΩ max.
  - Operating Current upto 32A
  - Insulation Resistance: 5000MΩ min.

### ENVIRONMENTAL

- Operating Temperature Range: -40°C to +125°C

### APPROVALS AND CERTIFICATIONS

- IEC 60512-13-2, IEC60512-9-1
- EIA 364-29
- IEC 60512-11-4
- IEC 60512-11-3
- UL and CSA recognized

### SPECIFICATION

- Product Specification: GS-12-1777

### TARGET MARKETS/APPLICATIONS



Automotive



Telecom



Energy Management System  
Home Automation



ESS  
Server  
Storage



Factory Automation  
Industrial & Instrumentation



Medical

## PART NUMBERS

Description	Part Numbers
Hybrid Vertical Board Connector	10170709-T01LF
Hybrid Cable Assembly	10170710-T01LF
Hybrid Cable Housing	10170711-001LF