Power Solutions

Amphenol

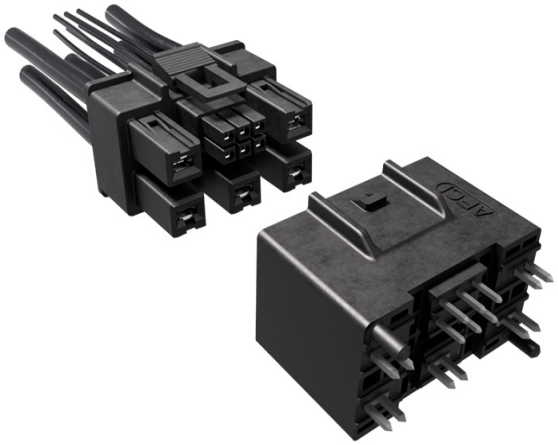
Compact Combo Connectors

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 30A/pin max. for power and 1.5 A to 5 A/pin max. for signal. Power wire sizes ranges from 18 AWG to 10 AWG and for signal wire sizes from 26 AWG to 20 AWG. 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



TARGET MARKETS



FEATURES

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

BENEFITS

- Ensures secure mating retention
- Adequate creepage and clearance with safety
- Power from 14 AWG & 10 AWG, signal from 26 AWG to 20 AWG
- Reliability
- Up to 30 A/pin max. for power and up to 5 A/pin max. for signal pin
- Easy wire management

TECHNICAL INFORMATION

MATERIAL

- Insulator Material: Thermoplastic UL 94 V-0
- Contact Material: Copper Alloy

MECHANICAL PERFORMANCE

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

ELECTRICAL PERFORMANCE

- Signal Contact:
  - Operating Current: 5 A
  - Contact Resistance: 20 mΩ max.
  - Insulation Resistance: 1000 MΩ min.
- Power Contact:
  - Contact Resistance: 4 mΩ max.
  - Operating Current upto 30 A
  - Insulation Resistance: 5000 MΩ 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

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

Find part number details using the search box on www.amphenol-cs.com

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