

Flexible Printed Circuit Assembly

BROAD OFFERING/HIGH PERFORMANCE/COST SAVING/CUSTOMIZED/VALUE ADDED FLEX CABLE ASSEMBLY

Amphenol's BergStak®, MezzoStak®, Conan®, ComboStak® and PowerStak® are industry proven board-to-board solutions. To enlarge the advantages of these recognized board-to-board solutions, we have expanded our offering with Flexible Printed Circuit (FPC) assemblies, which provide design flexibility to customers.

- Flexible option for space constraint environments where PCBs are not an option
- Comprehensive range of pitch sizes, positions and stack heights to satisfy all needs
- High-speed performance up to 16Gb/s
- Utilize SMT process with higher process consistency, and lower assembly cost
- Fully customized solutions using all advantages of board-to-board connectors like mating reliability and different profile heights



FEATURES

- Broad offering of:
 - Pitch sizes: 0.4mm – 2.0mm
 - Positions: 2 – 200
 - Heights: 1.5mm – 20mm
 - FPC lengths: 100mm to 500mm
 - Special FPC shapes
- High-speed signal capability of up to 16Gb/s
- FPC cable with SMT process
- Flexible Printed Cable utilizing all advantages of board to board connectors

BENEFITS

- Comprehensive range of sizes and profile heights to satisfy all needs when board-to-board or wire-to-board connections are not an option
- Suitable for high data transmission applications
- Space, cost and weight saving and higher process consistency, compared to CTW cable assembly or PCB-to-board connections
- Wide choice of mating interfaces; current rating capability; vibration resistance (USCAR spec) and locking features available

TECHNICAL INFORMATION

MATERIAL

- Housing: High temperature thermoplastic LCP(UL94V-0)
- Terminal: Copper Alloy
- Plating: Gold flash/15µin/30µin Gold or GXT®

MECHANICAL PERFORMANCE

- Durability: 30-200 cycles
- Mechanical Shock : EIA 364-27 or USCAR2 V2
- Vibration: MIL-STD-202, Method 201 or USCAR2 V2

ELECTRICAL PERFORMANCE

- Current Rating: 0.3A-20A per contact (all contacts powered)
- Insulation Resistance: 1000MΩ min.
- Voltage Rating: 30V-100V AC/DC
- LLCR: 20mΩ max.
- Data Rate: up to 16Gb/s







ENVIRONMENTAL

- Operating Temperature Range: -55°C to +125°C

PACKAGING

- Tray

TARGET MARKETS/APPLICATIONS

-  Automotive
-  Communications
-  Consumer
-  IT/DA
-  Industrial & Instrumentation
-  Medical

PART NUMBERS

Description	Part Numbers
MezzoStak® Flexible Printed Cable, 30pos, 2mm height ; 100mm	10170897-E030010LF
Conan® Flexible Printed Cable, 31pos ; 4.5mm height ; 200mm	10170897-H031020LF

PART NUMBER SELECTOR

10170897 — T AAA BBB LF — Lead-free compatibility

Base Part Number

Type of Connectors	
A	BergStak® 0.4mm
B	BergStak® 0.4mm SA
C	BergStak® 0.5mm SA
D	BergStak HS™ 0.5mm
E	Mezzostak® 0.5mm
F	BergStak® 0.8mm
G	BergStak HS™ 0.8mm
H	Conan® 1.00mm
I	ComboStak® and PowerStak®

AAA	Position
030	30
031	31

BBB	Cable length
010	100
020	200