AlphaLink® SL is a high-performance, solderless board-level connector technology developed by Glenair that significantly expands board-level interconnection options for users of mil-spec caliber connectors. Precision-machined and EMI shielded, these ultralightweight PC tail, solder cup, and/or pigtail equipped connectors are designed for high-reliability applications that require avionic system levels of vibration and shock tolerance. Ultra low-profile and high-density, AlphaLink® SL connectors are equipped with 2–3 Amp spring-loaded contacts and may be ordered either as discrete connectors or in turnkey flex jumpers that combine popular Glenair high-reliability I/O connectors. Glenair is perfectly positioned to provide the entire solution with in-house manufacturing for every component part—from connectors and contacts to rugged polyimide-based flex. AlphaLink® SL flex jumpers are available with Series 80 Mighty Mouse, Series 88 SuperFly, and Series 89 nanominiature circular connectors, as well as Series 89 nanominiature, Micro-D subminiature and Series 79 Micro-Crimp rectangular connectors. A wide range of insert arrangements, from 4–40 contacts is available.

- Spring-loaded, solderless board-level solution
- Available I/O-to-board flex and pigtail wire jumpers
- Lightweight, low-profile: up to 40% space savings compared to 2mm pitch solutions
- High-density .050” center-to-center contact footprint
- Fast and easy PC board integration with reduced board preparation and masking
- Temperature, vibration and shock resistant
**SERIES 171 ALPHALINK® SL**

Spring-loaded board level connector

Design features

**AlphaLink® SL**

Spring-Loaded Contact Interface

- High-temp thermoplastic insulator
- Gold-plated Copper Alloy contacts set on .050" centers
- 0-80 Thread or thru-hole PC board mounting

**171-134-01 Solder Cup Termination**

- Solder cup terminations may be factory modified for crimp termination
- Accommodates #24 AWG wire

**171-134-03 Wire Pigtail Termination**

- M22759/11 or M22759/33 wire; white or ten color repeat
- Environmental potting well
- Ø .019 ± .002 Spring-loaded contacts
- Conductive nickel or gold finish

**171-134-02 PC Tail Termination**

- Ø .016 ± .002 PC tails
- High durability spring-loaded contacts
- Precision-machined aluminum alloy shell

**171-134-02 PC Tail Termination**

EMI shroud/shield

Stainless Steel Hardware

**AlphaLink® Interposer and Bridge Technologies:** Unique pogo pin contact technology enables this signature Glenair connector series to deliver the lowest profile board-to-board solution available in the industry today.

**AlphaLink® SL flex jumpers:** Compact interconnect assemblies that combine circuit board technology and cabling into a lightweight, integrated package. These turnkey jumper assemblies reduce system size and weight and are ideally suited for prototype applications and new product development efforts.