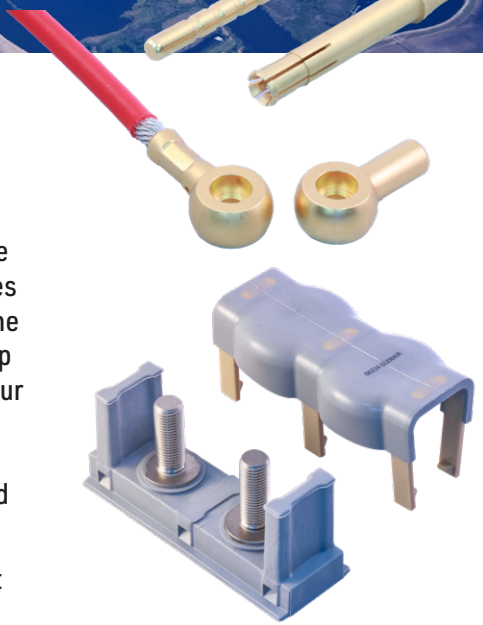
PwrLine HV™

High-current power feeder system and current return network for composite fuselage eVTOL aircraft applications

Unique power feeder system eliminates power line routing and termination issues

For electrical eVTOL motor applications that require discrete routing of 3-phase and DC power lines, Glenair has developed the PwrLine HV. PwrLine HV replaces conventional terminal strips and terminal lugs with a solution that eliminates the issues associated with routing large gauge cables. The PwrLine HV uses a crimp contact system that can accommodate tolerancing variations that routinely occur with large cables. Routing power feeders through the 3-D spatial environment routinely creates installation and terminal lug orientation issues. PwrLine HV eliminates these problems with its unique rotatable pin/socket architecture and unique in-line insulation packaging.

PwrLine HV is a complete power feeder and current return network system that includes contacts, cables, holding fixtures, mountable connector packages, as well as high-voltage terminal blocks and lugs for reduction of partial discharge and corona. Lightweight, high-durability Duralectric terminal blocks, hoods, and cable jackets deliver outstanding environmental and insulation performance.



PwrLine HV: a complete power feeder ecosystem with matched, compatible components

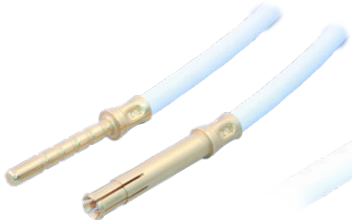
PwrLine HV Power Feeder System

For aircraft electrical power distribution systems

PWRLINE HV POWER FEEDER SYSTEM COMPONENTS

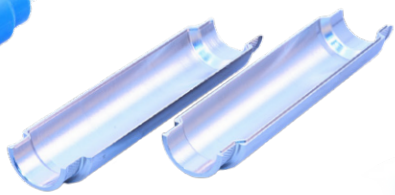
- **Resolves cable lug misalignment issues**
- **Eliminates twisted cable (rotational) problems during assembly**
- **Integrated / compatible power line feeder system used in combination with PowerLoad and other power distribution system connectors**

PwrLine HV power feeder system uses Band-Master ATS® termination bands



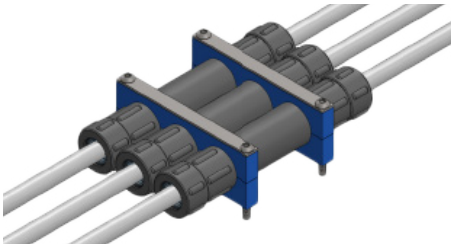
High-current power feeder contact and cable system

Mated contact pair inside self-vulcanizing Duralectric insulator

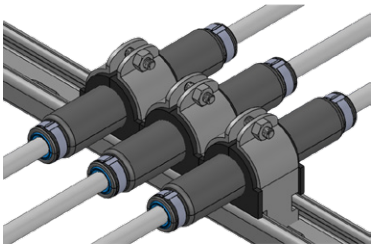


Lightweight outer composite split shell with shield banding platforms

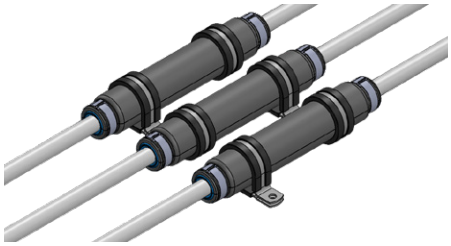
Assembled and ready for shield band termination with Band-Master ATS® bands



Schematic illustration with line block mounting hardware…

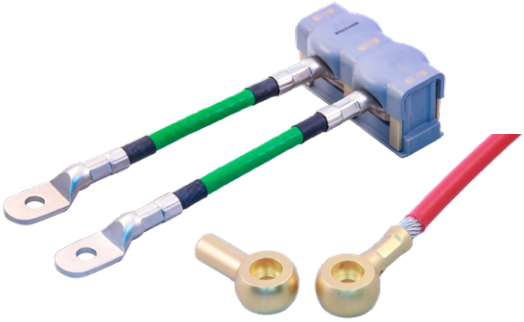


…strut clamp mounting hardware…

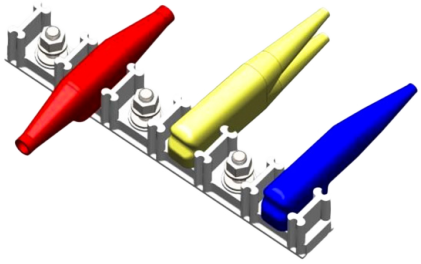


… and P-clamp mounting hardware

Multiple designs of high-voltage terminal blocks with accommodation for PwrLine HV lugs and/or standard lugs



Conventional and PwrLine HV terminal lugs



Color-coded terminal lug hoods made from high-performance Duralectric material