

MISSION-CRITICAL
INTERCONNECT
SOLUTIONS



Glenair
SIGNATURE SERIES



PowerLoad High-Voltage, High-Current, High-Frequency Connectors

Signature Interconnect Technology for Urban Air Mobility

ELECTRICAL POWER
PROPULSION SYSTEM
CONNECTORS,
CABLES, AND
ACCESSORIES



High-voltage, high-current,
and high-frequency
interconnects for eVTOL
distributed power



PowerLoad™ is a high-vibration, high-temperature resistant connector series designed for aircraft power distribution in conventional, hybrid, and all-electric aerospace applications. An innovative combination of low-resistance contacts and a one-piece composite thermoplastic insulator—with aggressive contact cavity isolation—results in a reliable high-voltage (HV), high-current (HC), and high-frequency (HF) solution that optimizes wire-to-contact termination and weight reduction in power distribution cables. Designed for use in integrated drive generators, DC-to-AC inverters, electronic speed control applications (such as variable frequency (VFD) drive systems), PowerLoad is available in three- and six-contact layouts for both multiphase and high-frequency power designs. Removable wire-sealing grommet and wire separator allow for easy rear release of contacts and improved sealing of tape-wrapped wire.



- The lightweight PowerLoad 28-6 layout connector is rated at 500 volts up to 50,000 ft. with a current of 45 amps per contact with 3 phase power in parallel at high frequency
- Available configurations include a high-vibration self-locking coupling nut plug, panel-mount receptacle with stub-ACME mating threads, and bulkhead feed-thru for firewall applications
- Aluminum class connectors are rated to 200°C operating temperature; passivated stainless steel designs rated to 230°C

HIGH PERFORMANCE PowerLoad™ Series

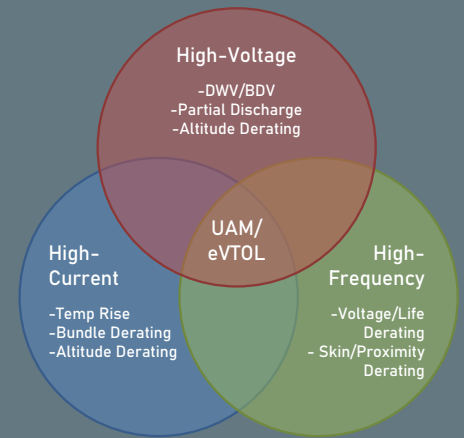


eVTOL electric propulsion system interconnect series

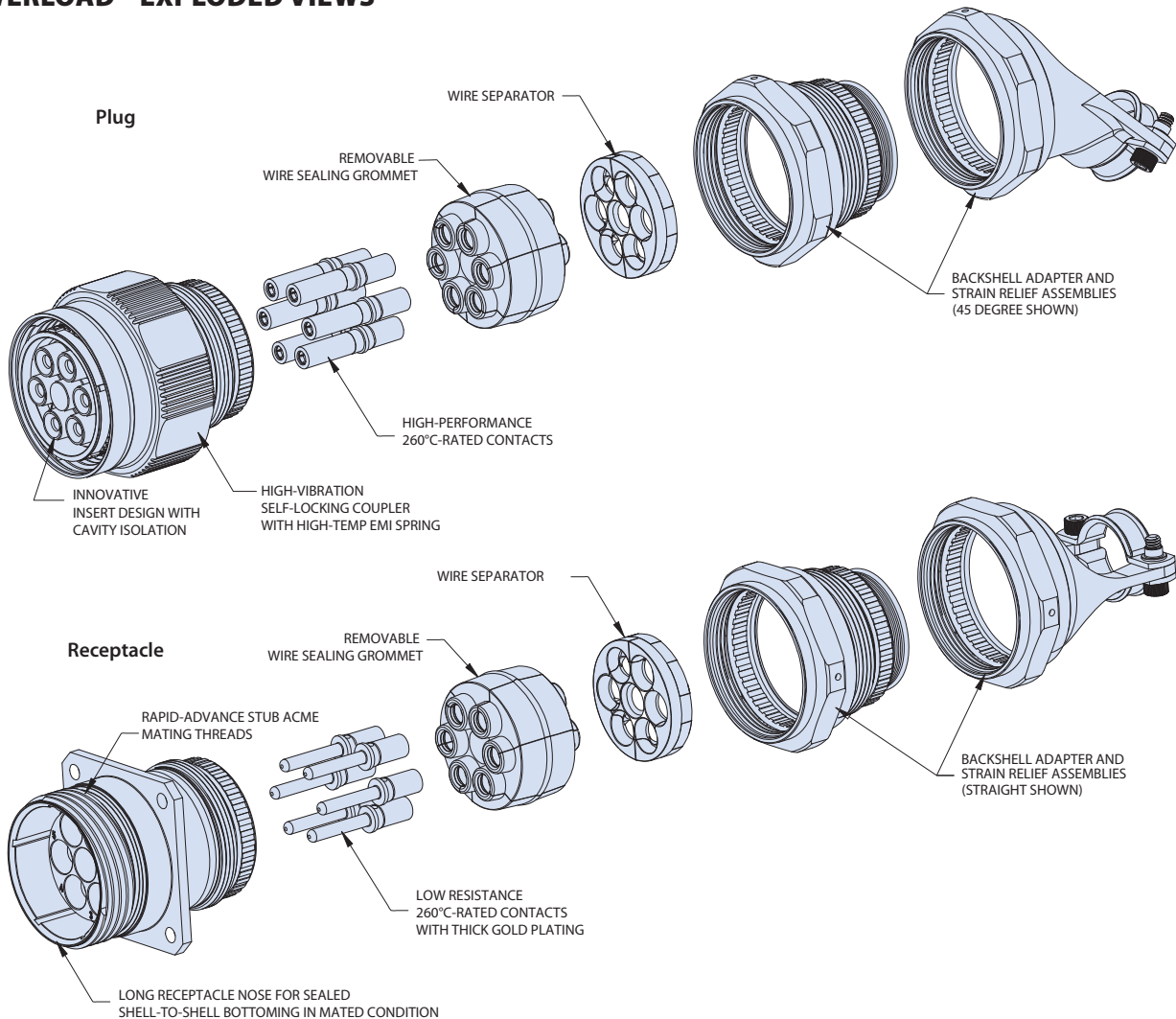
POWERLOAD™ AVAILABLE CONFIGURATIONS



Panel-mount receptacle with integrated wire sealing backshell (left), Cable plug with high-vibration coupler and ground spring (middle), and Bulkhead feed-thru for firewall applications (right). All styles available with a range of contact sizes, size #8, size #2, and size #1/0.



POWERLOAD™ EXPLODED VIEWS





MISSION-CRITICAL INTERCONNECT SOLUTIONS

Glenair, Inc.

1211 Air Way • Glendale, California • 91201-2497

Telephone: 818-247-6000 • Fax: 818-500-9912 • sales@glenair.com

www.glenair.com

Glenair Power Products Group

20 Sterling Drive
Wallingford, CT
06492

Telephone:
203-741-1115
Facsimile:
203-741-0053
sales@glenair.com

Glenair UK Ltd

40 Lower Oakham Way
Oakham Business Park
Mansfield, Notts
NG18 5BY England

Telephone:
+44-1623-638100
Facsimile:
+44-1623-638111
sales@glenair.co.uk

Glenair Microway Systems

7000 North Lawndale Avenue
Lincolnwood, IL
60712

Telephone:
847-679-8833
Facsimile:
847-679-8849

Glenair Nordic AB

Gustav III : S Boulevard 46
SE-169 27 Solna
Sweden

Telephone:
+46-8-50550000
sales@glenair.se

Glenair GmbH

Schaberweg 28
61348 Bad Homburg
Germany

Telephone:
06172 / 68 16 0
Facsimile:
06172 / 68 16 90
info@glenair.de

Glenair Iberica

C/ La Vega, 16
45612 Velada
Spain

Telephone:
+34-925-89-29-88
Facsimile:
+34-925-89-29-87
sales@glenair.es

Glenair Italia S.p.A.

Via Del Lavoro, 7
40057 Quarto Inferiore –
Granarolo dell'Emilia
Bologna, Italy

Telephone:
+39-051-782811
Facsimile:
+39-051-782259
info@glenair.it

Glenair France SARL

7, Avenue Parmentier
Immeuble Central Parc #2
31200 Toulouse
France

Telephone:
+33-5-34-40-97-40
Facsimile:
+33-5-61-47-86-10
sales@glenair.fr

Glenair Korea

B-1304 Gunpo IT Valley
148 Gosan-Ro, Gunpo-Si
Kyunggi-Do, Korea
435-733

Telephone:
+82-31-8068-1090
Facsimile:
+82-31-8068-1092
sales@glenair.kr