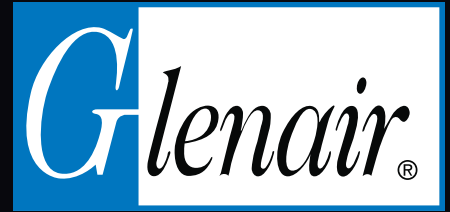


MISSION-CRITICAL
INTERCONNECT
SOLUTIONS



Glenair
SIGNATURE SERIES

PowerLoad Aircraft Power Distribution Connectors

Signature Interconnect Solutions for Commercial Aircraft

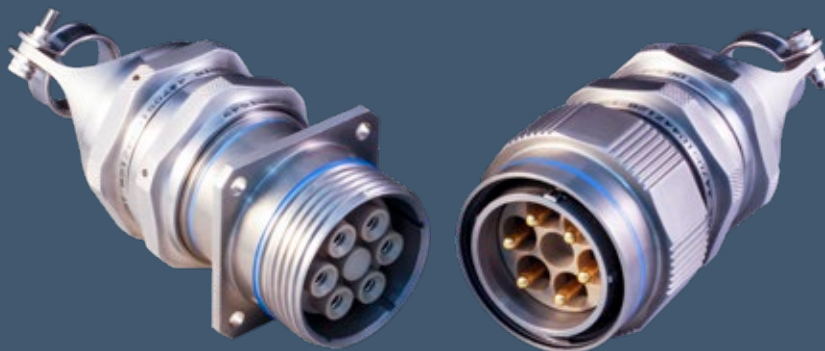
SPECIAL PURPOSE
AEROSPACE
CONNECTORS
AND CONTACTS



Backup and integrated
drive generator connectors
for power distribution
applications



PowerLoad™ is a high-vibration, high-temperature resistant connector series designed for high altitude aircraft power distribution 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-current solution that optimizes wire-to-contact termination and weight reduction in power distribution cables. Designed for use in integrated drive generator and backup generator applications, PowerLoad is available in three- and six-contact layouts for both multiphase and high-frequency power systems. Removable wire-sealing grommet and wire separator allow for easy rear release of contacts and improved sealing of tape-wrapped wire.



- PowerLoad 28-6 layout connector is rated at 500 volt at 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



Aircraft power distribution connectors

POWERLOAD™ AVAILABLE CONFIGURATIONS



Panel-mount receptacle with integrated wire sealing backshell



Cable plug with high-vibration coupler and ground spring



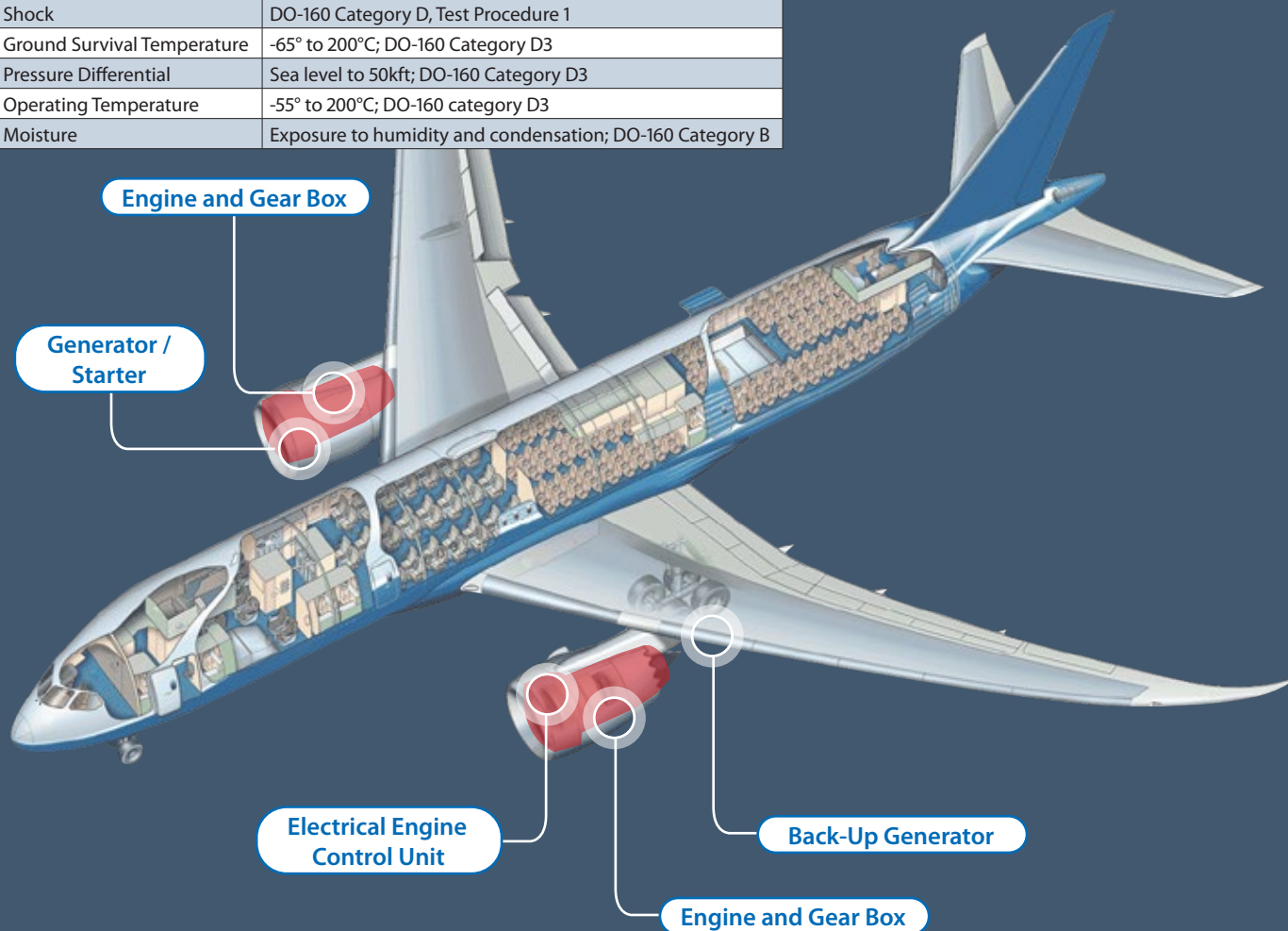
Bulkhead feed-thru for firewall applications

AVAILABLE INSERT ARRANGEMENTS

- Six size #8 contacts
- Three size #2 contacts
- Three size #1/0 contacts

PURPOSE-DESIGNED FOR AIRCRAFT ENGINE AND GEAR BOX ZONE

Aircraft Engine Zone 4 Performance Requirements	
Environmental Stress Factors	Applicable RTCA/DO-160 Requirements
Vibration	DO-160 Category S and H (Table 8-1)
Shock	DO-160 Category D, Test Procedure 1
Ground Survival Temperature	-65° to 200°C; DO-160 Category D3
Pressure Differential	Sea level to 50kft; DO-160 Category D3
Operating Temperature	-55° to 200°C; DO-160 category D3
Moisture	Exposure to humidity and condensation; DO-160 Category B





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