

Series ITH Rigid Inserts and Crimp Contacts Save Assembly Time and Improve Electrical Insulation Performance

The Glenair Committal ITH connector series is based on the MIL-C-5015 standard, but features an improved reverse bayonet coupling technology in place of the threaded coupling used in MIL-C-5015. The ITH Series is also notable for its rigid inserts and crimp contacts that provide both better electrical insulation as well as reduced assembly time. The connector also features a 3-point reverse bayonet coupling mechanism which provides easier mating when the connector is in an awkward position. Positive locking of the three stainless steel pins provides reliable resistance to vibration and shock, and prevents connector de-coupling in even the most rugged applications such as locomotives and mass-transit cars. The products conform to the VG95234 standard and are currently used throughout Europe on hundreds of ruggedized applications. All connectors in the series conform to French (NFF 61030) electrical standards, as well as EEC compliance directives for electromagnetic compatibility. EMI shield termination accessories are available for both overall as well as individual wire shields.

Characteristics

Design according to MIL-C-5015 and VG95234

Max torque values (full insertion):

Connector size	Torque (NM)
18	4.0
20	5.0
22	6.0
24 - 28	6.5
32	7.0
36 - 40	8.0

Temperature range: -40°C to +100°C
(F7 conductive plating).
-55°C to +125°C
(F6 non-conductive plating).

Insulation resistance: $\geq 5 \times 10^9$ MW min in mated conditions (with compressed interfacial seal).

Material & Finish

Metal parts:

Aluminum alloy with cadmium free conductive plating and black passivation (ROHS compliant).

Contacts:

Copper alloy with gold plating.

Insulating parts:

Inserts: Low fire hazard plastic UL94V0 and NFF16-102

Gaskets: Halogen free silicone rubber (NFF 16-102).

Contact size	Working voltage	Dielectric voltage	Creepage & air clearance distance mm min
20	220 Vac	2550 Vac	9
16	220 Vac	2550 Vac	9
12	500 Vac	3250 Vac	12
8	500 Vac	3250 Vac	12