

OPTIMIZED
FOR USE WITH

turboflex
THE ULTRA FLEXIBLE RUGGED POWER CABLE

IRT series high-current / high-voltage multipole traction motor connectors with IRIS certification



High current/high voltage electrical connectors for traction motor, lighting, data communications, and more.

The interconnection of power transmission cables in traction motors is a critical application. Conventional systems may employ bulky and inefficiently-sealed junction boxes for cable interconnection. Glenair offers a number of different special-purpose designs for traction motors and other power requirements on transit cars. Features such as integral mounting, robust environmental sealing, screw and/or lever-action mating, as well as compliance to transit industry standards such as IRIS, FST, and RoHS make Glenair the natural design partner and supplier to the worldwide mass transit / rail industry. The following pages present an overview of our most popular power and signal connector series, principally manufactured, tested, and qualified in our Bologna, Italy, factory. Glenair delivers worldwide application engineering and support to the mass transit / rail industry with support teams located in every major market.



- Innovative screw and lever mated power connectors for mass transit / rail applications
- Proven performance and qualification credentials in hundreds of installations
- IRIS International Railway Industry Standard certified (Rev. 02, May 2009)

RUGGED IRT Power and Signal Connectors for Mass Transit Applications



Rectangular multipole connectors with locking feature

SERIES IRT RECTANGULAR MULTIPOLE HIGH VOLTAGE TRACTION MOTOR CONNECTORS



Plug Connector



Receptacle Connector

The Glenair IRT series is a rectangular power connector for harsh environmental conditions.

Available with three, four, and six contacts, typical for traction motor applications. Suitable for single cables AWG 4 – 373MCM (35 to 185 mmq).

Working voltage up to 3000 VCC.

Two mating systems offered:

- Screws, for light weight and reduced dimensions
- Lever system with secondary lock, easy-to-use in difficult positions.

The IRT Series is suitable for separated power cables, with or without shielding, ground body available with a copper plait.

Available with three different cable back-end styles:

- Metallic gland
- Clamp with strain relief
- EMC shield and gland

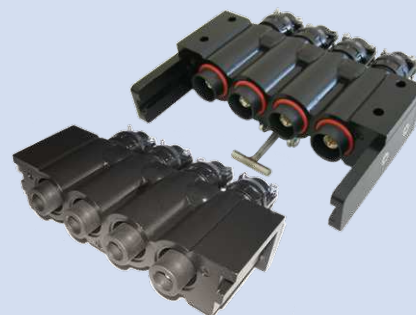
SERIES IRT CONNECTOR SELECTION GUIDE



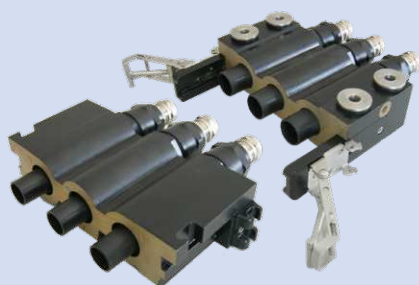
Size 01
3 contacts, Screw Mating



Size 02
4 contacts, Screw Mating



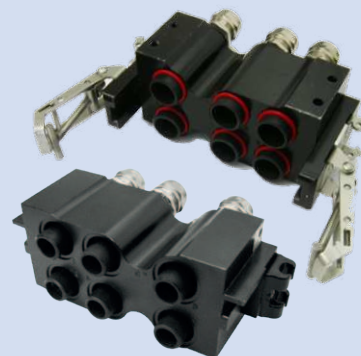
Size 03
3 contacts, Lever Mating



Size 04
3 contacts, Double-Lever Mating



Size 05
4 contacts, Lever Mating



Size 06
6 contacts, Stacked, Lever Mating