



Rotatable Electrical Connector Solutions

Why Choose Greene Tweed?

Greene Tweed pioneered the use of Arlon® PEEK-bodied, rotatable connectors for downhole drilling and logging applications more than two decades ago. Today, we continue to offer standard and custom designs backed by comprehensive materials and application knowledge and validated by comprehensive qualification testing and field use.

Greene Tweed's rotatable connectors are designed to withstand the most extreme downhole conditions, including shock, vibration, and temperature. We offer pressure protection with our industry-leading Seal-Connect® high-pressure, high-temperature (HPHT) bulkhead technology.

Our customers turn to Greene Tweed for our proven expertise and product reliability when they cannot afford lost data or lost rig time during operations. Our rotatable connectors have been successfully performance tested to 40 g RMS vibration and shock levels exceeding 1,000 g without electrical signal discontinuity. Industry-leading spring designs provide dozens of contact points to ensure reliability over the operating range.

We manufacture our rotatable connectors from our best-in-class materials in our ISO 9001-certified facilities, including at our 90,000-ft² facility in Houston, TX, using lean techniques such as single-piece flow to deliver large quantities of high-quality assemblies. Our manufacturing technicians are trained to the strictest standards and hold IPC (Association Connecting Electronics Industries) J-STD-001 and IPC/WHMA-A-620 certifications. Greene Tweed provides customer support with a worldwide network of engineers and customer service facilities.



Greene Tweed rotatable connectors:

- Enhance safety compliance
- Improve uptime
- Increase equipment reliability

We have developed our rotatable connector portfolio through decades of collaboration with equipment manufacturers, service providers, and operators. Greene Tweed's engineers partner with our customers to ensure our connectors are properly integrated within their tool design. Because we were the first company to bring this capability to the market, we defined the standard for this technology, and many leading oilfield service companies designed their tools around Greene Tweed's rotatable connectors.



Products and Capabilities

Rotatable connectors are used at the threaded joint on downhole tool strings and work as a swivel connection when they mate. Greene Tweed’s rotatable connectors offer superior reliability in high-vibration environments and can be integrated with bulkhead connectors to protect the electronics behind them.

Both male and female rotatable connectors are available with temperature capabilities to 218°C (424°F) and pressure ratings to 35,000 psi. Connectors with requirements to perform in temperatures exceeding 218°C (424°F) can be custom-engineered using design and material solutions, including Chemraz® perfluoroelastomer o-rings. Greene Tweed offers rotatable connectors in standard designs with up to 10 contact bands; specialized designs with 11 to 13 contact bands can be engineered upon request.

Greene Tweed offers rotatable connectors with a variety of termination styles, including flying leads, solder cups, and other solutions such as Micro D Metal (MDM).

Rotatable Solutions

Greene Tweed can provide the following standard rotatable parts and offers additional part options, such as number of contacts, wire sizes, with or without bulkheads, etc.

Connector Description	Part Number
4 Pin Male, 24 AWG leads	5672-0028-001
4 Pin Female, 24 AWG leads	5672-0005-001, 5672-0603-001
7 Pin Male, 18 AWG leads	5672-4819-001
7 Pin Female, 18 AWG leads	5672-4820-001
8 Pin Male, 24 AWG leads	5672-2835-001
8 Pin Female, 24 AWG leads	5672-2839-001
8 Pin Mini Female with Bulkhead	5672-9869-001
8 Pin Mini Male with Bulkhead	5672-9870-001
9 Pin Male, 20 AWG leads	5672-8233-001
9 Pin Female, 20 AWG leads	5672-8232-001
10 Pin Female, 22/24 AWG leads	5672-1384-001
10 Pin Male, 22/24 AWG leads	5672-1393-002
10 Pin Male, 18/22/24 AWG leads	5672-2644-001
10 Pin Male with Bulkhead	5672-2322-001
10 Pin Female with Bulkhead	5672-2323-001
10 Pin Female with MDM Termination	5672-1473-001

Call Greene Tweed today to discuss your rotatable connector requirements with our engineers.

Greene Tweed

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