



Custom Solutions

Mil-Spec MIL-C-5015 Assemblies

TPC provides a versatile range of circular connector assemblies, meeting MIL-C-5015 standards. They feature two backend sealing options, mechanical and overmolded, for demanding environmental conditions. With 180 contact layouts and support for wire sizes up to 0 AWG, they suit a wide range of harsh industrial applications.

Performance Characteristics

- ✓ IP69K (Reverse Bayonet Coupling Only)
- ✓ Connector Operating Temperature: -55°C to 125°C

Features & Benefits

Wide Variety Of Contact Layouts

Precision-machined solder contacts featuring silver or gold plating are accessible in a range from 24 AWG to 0 AWG. Additionally, we provide specialized crimp and thermocouple contacts tailored to specific applications.

Rugged Shell

TPC's custom mechanical backend uses an aluminum alloy shell and hardware for durability with minimal weight. Optional mesh strain relief available for extreme flexing near connection point.

Overmolded Backend

Available with a fully overmolded backend to effectively safeguard against the ingress of liquids and particles.

3/4 Turn Reverse Bayonet Coupler

Provides easy mating and disconnecting, with a positive locking indent to prevent against accidental uncoupling.



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HDLC Series Connector Assemblies

Purposely built to withstand the most challenging industrial conditions. It maintains identical shell dimensions, contact layouts, and electrical performance characteristics as the standard MIL-C-5015 connector while incorporating application-specific enhancements like the 3/4 turn reverse bayonet coupling system, rubber-coated coupler, and a robust strain relief system.

Performance Characteristics

- ✓ IP67
- ✓ Connector Operating Temperature: -55°C to 125°C

Features & Benefits

Wide Variety Of Contact Layouts

Precision-machined contacts featuring silver or gold plating are accessible in a range from 24 AWG to 0 AWG.

Heavy Duty Brass Backend

Provides superior shock and impact resistance.

Rubber Coupler Ring

Protects the coupler from impact damage and provides a large, non-slip surface for easy gripping.

First Mate Last Break Contact

An extended ground pin ensures the ground path is always first to engage while mating, and last to disengage while disconnecting.

3/4 Turn Reverse Bayonet Coupler

Provides easy mating and disconnecting, with a positive locking indent to prevent against accidental uncoupling.



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Mil-Spec MIL-C-26482 Series 1 Assemblies

TPC provides a versatile range of circular connector assemblies, meeting MIL-C-26482 Series 1 standards. They feature two backend sealing options, mechanical and overmolded, for demanding environmental conditions. With over 60 contact layouts and support for wire sizes up to 16 AWG, they suit a wide range of harsh industrial applications.

Performance Characteristics

- ✓ Connector Operating Temperature: -55°C to 125°C

Features & Benefits

Wide Variety Of Contact Layouts

Precision-machined solder contacts featuring silver or gold plating are accessible in a range from 20 AWG to 16 AWG. Additionally, we provide specialized crimp and thermocouple contacts tailored to specific applications.

Rugged Shell

TPC's custom mechanical backend uses an aluminum alloy shell and hardware for durability with minimal weight. Optional mesh strain relief available for extreme flexing near connection point.

Overmolded Backend

Available with a fully overmolded backend to effectively safeguard against the ingress of liquids and particles.

Bayonet Coupler

Provides easy mating and disconnecting with a secure, three point locking system.