



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.