



Custom Solutions

Mil-Spec MIL-C-5015 Assemblies

ATPC 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

ATPC'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.



Custom Solutions

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.



Custom Solutions

Mil-Spec MIL-C-26482 Series 1 Assemblies

ATPC 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.

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ATPC'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.

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Bayonet Coupler

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



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RTD Probe Assemblies

ATPC specializes in the design and manufacturing of a wide range of RTD probe connector assembly applications. With ATPC's high-performance cable offerings and a wide range of probe materials and customizations, RTD Probe Connector Assemblies are built to withstand the most extreme temperature sensing applications



Engineered to Resist

- Abrasion
- High Temperature
- Cold Temperature
- Chemicals

Features & Benefits

ATPC High-Performance Cable

ATPC's full line of high-performance cables are available to use, offering different jacket and insulation types to meet your specific application requirements.

Sealed RTD

RTD element is sealed in its sheath and the connection point is protected with either 6:1 glue shrink, or chemical/heat resistant heat shrink.

Connector Offerings

Variety of connector choices for the cold end, ranging from molded M12 DC Micro's to durable Mil-Spec 5015's or 26482's.

Material and Type Customizations

Full customization of probe elements, types and materials to meet your specific application requirements.

Ordering Information

For complete product ordering information, please scan the QR Code or contact your TPC sales representative

"MA"	Probe Diameter (in)	Element Configuration	Type	Sheath Material	Temperature Range	Probe Length (in)	ATPC Cable	"A"	Cable Length (in)
MA	375 (0.375")	S2 (Single 2-Wire)	E1 (100 Ω Pt 385)	30 (304 SS)	A (-200°C - 260°C)	X	XXXXX	A	XXX
	250 (0.250")	S3 (Single 3-Wire)	J1 (100 Ω Pt 392)	32 (316 SS)	B (-200°C - 315°C)				
	215 (0.215")	S4 (Single 4-Wire)	E3 (500 Ω Pt 385)	39 (Inconel 600)	C (-260°C - 860°C)				
	188 (0.188")	D4 (Dual 2-Wire)	E4 (1,000 Ω Pt 385)		D (-200°C - 482°C)				
	125 (0.125")	D6 (Dual 3-Wire)	C6 (10 Ω Cu @ 25°C)						
		D8 (Dual 4-Wire)	N7 (120 Ω Ni 672)						

Example

MA	375	S3	E4	32	A	6	40551	A	120
<p>Description: TPC Sealed RTD Probe .375" Probe OD, Single 3-Wire Element, 1000Ohm Pt Type, 316 SS Sheath, -200C - 260C Temp Range, 6" Probe Length, TPC 18/3 Chem-Gard 200 RTD Cable, 120" Cable Length</p>									



Notes

*Part number may change based on engineering requirements**

**If customization is needed or connector is required on cold end, please detail requirements to your TPC Sales Rep.