



ITT Cannon KP Connectors for Industrial Applications

High density miniature circular interconnects for the harshest environments.

Originally developed for demanding military applications, today ITT Cannon's KP connectors deliver an ultra-rugged, extremely versatile and fully proven signal solution for multiple critical industrial applications.

From the high-performance KPSE, with crimp contacts and a clip in retention system for fast and simple assembly, to KPT with pre-installed and glued solder contacts and the cost-optimized KPTC which features both crimp and solder contacts, the KP range can meet the widest range of requirements.

Available in 10 shells sizes, with 40 layouts ranging from 2 to 61 contacts; they feature a secure 3-point locking system and five-way polarization for precise alignment. KP connectors are available with a variety of harsh environment RoHS compliant plating options, including Zinc Cobalt, Nickel, the high-performance industrial Blue Generation and our Tin Zinc Matt Grey "J" plating, the 1:1 Cadmium replacement as defined by Military VG standards. Fully interchangeable and intermateable with connectors qualified and designed to MIL-DTL-26482 and VG95328, KP delivers when durability and reliability are critical.

The CANNON Difference:

- Global capabilities and local support
- Proven application expertise
- Over a century of interconnect leadership
- A committed innovator and business partner

Features:

- Secure 3-point locking system
- Five-way polarization for precise alignment
- Sealing up to IP67
- Comprehensive back shell options
- Full range of tooling and accessories
- Durability up to 500 mating cycles
- RoHS compliant plating options including Tin Zinc (A241), Zinc Cobalt (A232), Nickel (A34), and Blue Generation (A240)
- Intermateable with MIL-DTL-26482 and VG95328



Applications



**INDUSTRIAL EQUIPMENT
AND MACHINERY**



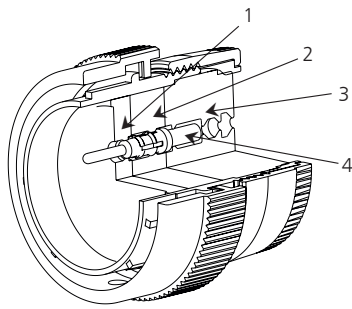
**HEAVY EQUIPMENT AND
OFF-ROAD VEHICLES**



**ROLLING STOCK AND
INFRASTRUCTURE**



**SENSORS AND
TESTING EQUIPMENT**



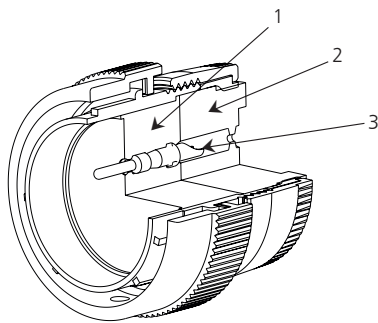
KPSE uses a three piece insulator stack up consisting of

- 1 - rubber insulator
- 2 - plastic wafer / retaining clips
- 3 - rubber grommet to seal individual wires
- 4 - two piece machined contact with retaining clip

Rubber insulator (1) and grommet (3) together with the front sealing ring provide the sealing in mated condition as well as the sealing of individual wires protruding through the grommet.

Contact retention is provided using a two piece contact with retaining clip. The stiff plastic wafer or individual metal clips provide the specified contact retention. A good tactile response is given when contacts are pushed in the final assembly position.

Contacts are installed from the rear by hand or with an insertion tool to ease assembly. Contact removal is done with an extraction tool from the front.

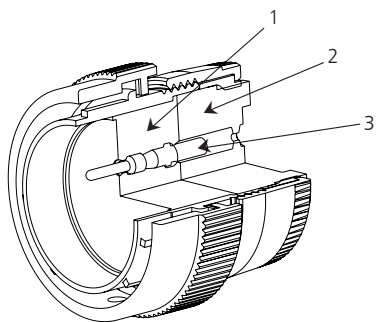


KPT uses a rubber insulator and sealing grommet

- 1 - rubber insulator
- 2 - rubber grommet to seal individual wires
- 3 - one piece machined contact

Rubber insulator (1) and grommet (2) together with the front sealing ring provide the sealing in mated condition as well as the sealing of individual wires protruding through the grommet.

Contact retention is provided by form fit of the machined contact in the rubber insulator. Additionally, glue is applied to secure contacts in the exact mounting position. KPT is equipped with solder pot contacts only and pre installed by the factory.



KPCT uses a rubber insulator and sealing grommet

- 1 - rubber insulator
- 2 - rubber grommet to seal individual wires
- 3 - one piece machined contact

Rubber insulator (1) and grommet (2) together with the front sealing ring provide the sealing in mated condition as well as the sealing of individual wires protruding through the grommet.

Contact retention is provided by form fit of the machined contact in the rubber insulator. Solder pot contacts are pre-installed by the factory, crimp contacts are delivered separately. Glue is not applied to KPCT connectors.

Contacts are installed from the rear with an insertion tool. Contact removal is done with an extraction tool from the front.

For more details and full ordering information see the ITT Cannon KP Catalog.

Why ITT

ITT is a focused multi-industrial company that designs and manufactures highly engineered critical components and customized technology solutions. ITT's Cannon brand is a leading global manufacturer of connector products serving international customers in aerospace, defense, medical, industrial and transportation end markets. ITT's Connector business, which also includes the Veam and BIW Connector Systems brand, manufactures and supplies a variety of connectors and interconnects that make it possible to transfer data, signal and power in an increasingly connected world.

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