



Trident Series

Versatility, performance and reliability

ITT Cannon's Trident series is an extremely versatile range of connectors for multiple harsh environment industrial and transportation applications.

From shielded metal circular connectors through to plastic circular and snap-together rectangular solutions, this diverse and globally proven range is engineered to deliver when it matters most.

With mixed power and signal variants, sealing up to IP67, high voltage capability, UL 94 V-0 flammability performance and durability up to 500 mating cycles, Trident is a high performance and ruggedized connector series for the toughest conditions.

Ultrareliable, proven and delivering outstanding performance - the Trident contact system is fully interchangeable and utilized throughout the Trident connector series. Both the two-piece T2P contacts and the three-piece T3P contacts feature three retention latches and an optimized body shape which provides excellent contact alignment and ultra-secure mating. Interchangeable contacts deliver a lower total cost of ownership by reducing tooling requirements and by both reducing the complexity and increasing the speed of contact insertion and removal.

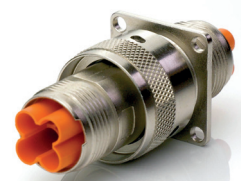
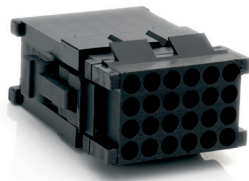
Whatever the challenge, there is a Trident connector series engineered to meet it.

The ITT CANNON Difference:

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

Features:

- Available in cost effective plastic to high performance shielded metal variants
- Interchangeable contacts between series
- Mixed power and signal layouts
- Multiple shell styles including cable, PCB, flange mount, jam nut mount and panel mount receptacles
- Sealing up to IP67
- Durability up to 500 mating cycles
- All ranges meet UL 94 V-0 flammability standard
- Full range of tooling and accessories



Applications



**INDUSTRIAL EQUIPMENT
AND MACHINERY**



**HEAVY AND
OFF-ROAD VEHICLES**



**ROLLING STOCK AND
RAIL INFRASTRUCTURE**



**SENSORS AND
TESTING EQUIPMENT**



**FACTORY AUTOMATION
AND ROBOTICS**

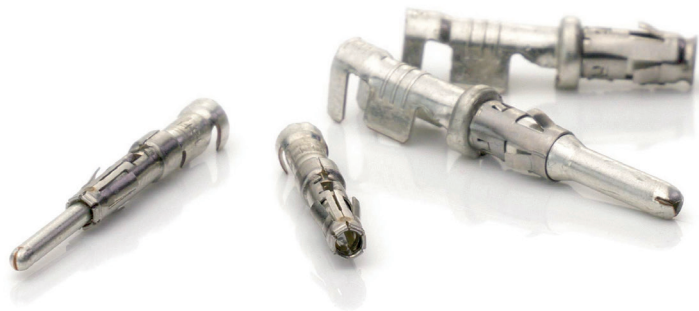
	Rectangular			Circular			
	Snap Together Standard (TST)	Snap Together Slimline (TST)	Flame Retardant (TFR)	Ringlock (TR)	Neptune (TN)	Neptune Metal (TNM)	High Voltage (THV)
							
Operating Voltage ¹	Up to 250 Vac rms	Up to 250 Vac rms	Up to 250 Vac rms	Up to 250 Vac rms (Up to 380 Vac rms with 7 position connector only)	Up to 250 Vac rms	Up to 250 Vac rms	Up to 500 Vac rms
Current Rating ²	Up to 13 A	Up to 10 A	Up to 13 A	Up to 13 A (Up to 16 A with High Conductivity Contacts)	Up to 13 A (Up to 16 A with High Conductivity Contacts) (Up to 30 A with Power Contacts)	Up to 13 A (Up to 16 A with High Conductivity Contacts) (Up to 30 A with Power Contacts) (Up to 40 A with D Sub Contacts)	Up to 34 A with Power Contacts
Mating Cycles ³	Up to 500	Up to 500	Up to 500	Up to 500	Up to 500	Up to 200	Up to 200
Environmental Sealing	-	-	-	Up to IP65	Up to IP67	Up to IP67	Up to IP67
Flammability	UL 94 V-0	UL 94 V-0	I2/F2 according to NFF 16-101 (fire & smoke standards) UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Layouts	2, 3, 4, 6, 12, 24, 36	3, 4, 6, 9, 10	2, 3, 4, 6, 12, 24, 36	4, 7, 8, 12, 19, 23, 28, 35, 48	12+0, 19+0, 13+2, 20+4, 28+4, 48+0, 19+12 **	4+0, 8+0, 12+0, 3+3, 4+3, 0+4, 19+0 **	4

* For details please consult the factory ** Signal + Power contacts

¹ Depends on contacts used, layout, and degree of pollution

² Depends on number and type of contacts used

³ Depends on plating and type of contacts used



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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