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Cannon

Trident Series

One interchangeable contact system for a
versatile range of plastic and metal connectors

Features & Benefits



Trident Series – Up to 500 mating cycles with ease of assembly and simplified installation

The Trident series is a versatile range of electrical connectors with fully interchangeable contacts.

With a variety of connector options to service the industrial and transportation markets, Trident is available in low-cost rectangular, rack & panel and circular configurations supporting industrial, shielded and harsh environment requirements.

The interchangeable contact system includes size 16 (1.6 mm pin diameter) machined as well as stamped and formed contacts. The stamped and formed contacts have three retention latches and an optimized body shape for an excellent contact alignment leading to secure connector mating. The innovative use of Trident contacts minimizes the need for tooling and provides a lower total cost of ownership due to faster assembly and disassembly while eliminating the need to invest in insertion tools.

The versatile product range offers rectangular and circular connectors from low cost corrosion resistant plastic to high performance shielded metal solutions. The circular product range is available up to IP67 including signal, power and mixed layouts. The interchangeability of contacts in a large variety of designs enables commonality throughout the Trident range.

The ever expanding product line now offers customers the new flame retardant series for the railway market and high voltage products for electric and hybrid vehicles.

Why customers benefit from choosing ITT's Trident Series

- Interchangeable contacts between all series
- Comprehensive range of contact types, platings and wire sizes
- Mixed power and signal layouts
- PCB versions available
- Low total cost of ownership with easy assembly and disassembly

Technical overview

- 2- to 75-way layouts
- Wire range: 0,08 - 8 mm² (AWG 26 - 8)
- Max. rating 40 A / max. voltage 500 V AC
- -55°C to 125°C (-67°F to 257°F)
- IP Sealing up to IP 67



One Trident contact system

The stamped and machined contacts are interchangeable between all product lines. No insertion tool and only one extraction tool needed.

Power and signal layouts

Efficiency and cost savings with a variety of layouts for the need of power and signal transfers in one connector for diverse applications.

Bayonet coupling

Bayonet coupling provides improved vibration resistance for 100% application reliability in harsh environments.

IP 67 sealing

The rubber grommet enables IP 67 sealing and low total cost of ownership through an easy assembly and no need for additional parts.

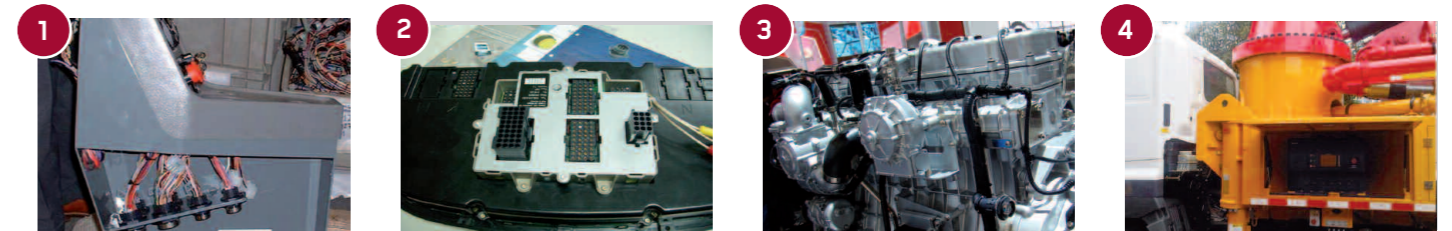
Fire & smoke retardant

The new Flame Retardant series has the flammability rating I2/F2 according to the French railway standards NFF 16-101 / 16-102.

High voltage connectors

Trident connectors can be used up to 250 V AC. The new VDE-certified high voltage series enables safe power transmission with up to 500 V AC.

Delivering robust, lightweight and cost effective connectors for harsh environments



Signal and power transmission on cabin panels and dashboards realized with Trident Neptune.

Saving space, weight and cost on dashboards with Trident Snap Together connectors.

Signal and power connection from diesel engine to electronic control unit.

Concrete pump systems successfully driven with Trident Neptune Metal connectors on control boxes.

Product portfolio

	Trident Product Line	Number of contacts	Contacts	Max. current	Max. voltage	Durability***	Max. IP class
Rectangular (Snap Lock)	Snap Together - Rectangular	2 - 36	signal: 0,08 - 2,5 mm ² (AWG 26-14)	16 A	250 V AC	500 mating cycles	IP 40
	Snap Together - Slimline	3 - 10	signal: 0,08 - 2,5 mm ² (AWG 26-14)	10 A	250 V AC	500 mating cycles	IP 40
	Flame Retardant	2 - 36	signal: 0,08 - 2,5 mm ² (AWG 26-14)	16 A	250 V AC	500 mating cycles	IP 40
	Multiway (Jackscrew fixing)	14 - 75	signal: 0,08 - 2,5 mm ² (AWG 26-14)	16 A	250 V AC	500 mating cycles	IP 40
Circular (Bayonet Coupling)	Ringlock	4 - 48	signal: 0,08 - 2,5 mm ² (AWG 26-14)	16 A	380 V AC**	500 mating cycles	IP 65
	Neptune	12 - 48	signal: 0,08 - 2,5 mm ² (AWG 26-14) power*: 0,5 - 4,0 mm ² (AWG 20-12)	16 A / 30 A	250 V AC	500 mating cycles	IP 67
	Neptune Metal (Shielded)	4 - 19	signal: 0,08 - 2,5 mm ² (AWG 26-14) power*: 0,5 - 8,0 mm ² (AWG 20-8)	16 A / 40 A	500 V AC**	200 mating cycles	IP 67
	High Voltage (Shielded)	4	power: 0,5 - 4,0 mm ² (AWG 20-12)	34 A	500 V DC / AC	200 mating cycles	IP 67

* Mixed power and signal layouts available ** One layout only. All other layouts: 250 V AC *** Depends on plating and type of contacts used

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