

# Cannon Trident Connector System

Multi Rack & Panel Connectors

The Multiway Range has six plan forms available and offers an extremely reliable, robust and versatile connector system, in which any of the Trident signal or coaxial contacts can be used.

## Applications:

- Inflight entertainment systems.
- Rail equipment.
- Test equipment.



Multiway  
Rack & Panel

## Product Features

- Fully tested to MIL-STD-202 and now IEC 512.
- Wide range of accessories, jacking and mounting hardware.
- Polarizing between connectors available, by contact position, use of shrouds or additional guide pin and socket sets.
- Recognized under the component program of UL Inc. and CSA.
- Complete range of contact options available, see page 47.

## Performance Specifications

<b>Temperature Range</b>	-55°C to 125°C (-67°F to 257°F), Plastic Hood assemblies limited to 105°C (221°F)
<b>Test Voltage</b>	200 V ac rms for 60 seconds
<b>Insulation Resistance</b>	5000 MV min. at 500 V dc
<b>Flammability</b>	UL 94V-0 (Insulators), UL 94V-1 (Plastic Hoods)
<b>Rated Current</b>	Dependent on choice of contact and application (usually limited by cable bundle factor)

## Materials and Finishes

Description	Material	Finish/Treatment
Insulator	Glass-Filled Phenolic	—
Intermating Hardware	Brass and Stainless Steel	—
Jackscrew Knobs	Thermoplastic	—
Cable Clamps	Stainless Steel	—
Pin Protection Shrouds, 14-34 Way	Aluminum	Anodized
Pin Protection Shrouds, 50 & 75 Way	Stainless Steel	—
Formed Hoods	Aluminum	Anodized
Plastic Hoods	Unfilled Thermoplastic - PPO	—
Die Cast Hoods	Zinc Alloy	Grey Paint

## Test Data

Test Description	IEC Test	Military Standard	Test Method
Test Voltage	512-2 Test 4a	MIL-STD-202	301
Insulation Resistance	512-2 Test 3a	MIL-STD-202	302
Vibration	512-4 Test 6d	MIL-STD-202	204, Condition A
Shock	512-4 Test 6c	MIL-STD-202	213
Humidity	512-6 Test 11c	MIL-STD-202	103, Condition C
Corrosion (Salt Spray)	512-6 Test 11f	MIL-STD-202	101, Condition B
Dry Heat	512-6 Test 11i	MIL-STD-202	108A, Condition D

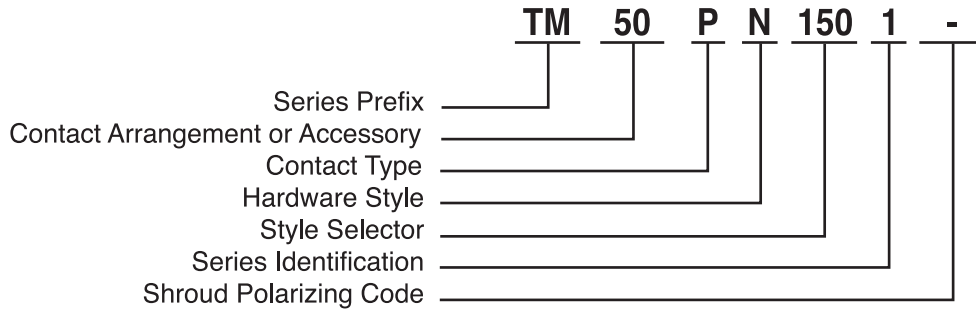


Dimensions shown in mm (inch)  
Specifications and dimensions subject to change

[www.ittcannon.com](http://www.ittcannon.com)



## How to Order



Multiway  
Rack & Panel

### Series Prefix

TM – Trident Multiway

### Contact Arrangement or Accessory

16, 22, 28, 36, 52, 77  
A – Accessory

### Contact Type

P – Plug  
R – Receptacle

### Hardware Style

N – Normal Hardware  
R – Reversed Hardware

### Style Selector

See Hardware Selection Guide,  
page 19.

### Series Identification

1 – For all items in this  
publication

### Shroud Polarizing Code

leave blank, if not required.  
Contact Cannon for other options.

*For more information, please  
contact your local Cannon sales  
office.*

## Style Selector — Hardware Selection Guide

### Plain, No Accessories



Note: Shown without Pin Protection Shroud.

- Specify receptacle first.

#### Plug or Receptacles

	Jackscrews	Guide Pins & Sockets
No Shrouds	007	001
Shrouds	207	201

**Note:**

1. Connectors with Jackscrews will not mate with connectors with Guide Pins or Sockets.
2. Normal Hardware: Plugs have rotating jackscrews.
3. Reversed Hardware: Receptacles have rotating hardware.

### Formed Hood



Note: Shown without Pin Protection Shroud.

#### Plugs

	Jackscrews	Guide Pins & Sockets
No Shrouds	150	120
Shrouds	250	220

**Note:**

1. Connectors with Jackscrews will not mate with connectors with Guide Pins or Sockets.
2. Normal Hardware: Plugs have rotating jackscrews.
3. Reversed Hardware: Receptacles have rotating hardware.

### Plastic Hood



- Jackscrews available on 34 Way only.

#### Plugs

	Jackscrews	Guide Pins & Sockets
No Shrouds	155 (34 Way Only)	159 (14, 20, 26, & 34 Way Only)
Shrouds	255 (34 Way Only)	259 (14, 20, 26, & 34 Way Only)

**Note:**

1. Connectors with Jackscrews will not mate with connectors with Guide Pins or Sockets.
2. Normal Hardware: Plugs have rotating jackscrews.
3. Reversed Hardware: Receptacles have rotating hardware.

### Die-Cast Hood



#### Plugs

	Jackscrews	Guide Pins & Sockets
No Shrouds	157 (50 & 75 Way Only)	N/A
Shrouds	257 (50 & 75 Way Only)	N/A

**Note:**

1. Connectors with Jackscrews will not mate with connectors with Guide Pins or Sockets.
2. Normal Hardware: Plugs have rotating jackscrews.
3. Reversed Hardware: Receptacles have rotating hardware.

### Straight Cable Clamp



#### Plugs

	Jackscrews	Guide Pins & Sockets
No Shrouds	118	180
Shrouds	218	280

**Note:**

1. Connectors with Jackscrews will not mate with connectors with Guide Pins or Sockets.
2. Normal Hardware: Plugs have rotating jackscrews.
3. Reversed Hardware: Receptacles have rotating hardware.

### 90° Cable Clamp



#### Plugs

	Standard Cable Exit to Left Guide Pins		Reversed Cable Exit to Right Guide Pins	
	Jackscrews & Sockets	Jackscrews & Sockets	Jackscrews & Sockets	Jackscrews & Sockets
No Shrouds	138	136	137	135
Shrouds	238	236	237	235

**Note:**

1. Connectors with Jackscrews will not mate with connectors with Guide Pins or Sockets.
2. Normal Hardware: Plugs have rotating jackscrews.
3. Reversed Hardware: Receptacles have rotating hardware.

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