

The Multiway Range has six contact cavity arrangements available and offers an extremely reliable, robust and versatile connector system, in which any of the Trident signal or coaxial contacts can be used. All Multi Rack & Panel connectors are RoHS Compliant.



### Applications:

- Inflight entertainment systems.
- Railway applications.
- Test measurement equipment.



### 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 CSA.
- Complete range of contact options available, see page 64.

### Performance Specifications

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

### Materials and Finishes

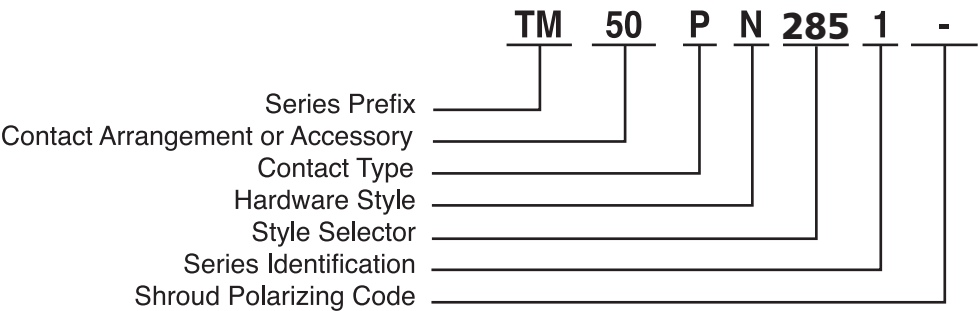
Insulator	Glass-Filled Phenolic
Intermating Hardware	Brass and Stainless Steel
Jackscrew Knobs	Thermoplastic
Cable Clamps	Stainless Steel
Pin Protection Shrouds, 14-34-way	Anodized Aluminum
Pin Protection Shrouds, 50 & 75-way	Stainless Steel
Formed Hoods	Anodized Aluminum
Plastic Hoods	Unfilled Thermoplastic - PPO
Die Cast Hoods	Grey Painted Zinc Alloy

<sup>1</sup> Depends on plating and type of contacts used

### 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

How to Order



**Series Prefix**  
TM – Trident Multiway

**Contact Arrangement**  
See Page 24

**Contact Type**  
P – Plug  
R – Receptacle

**Hardware Style**  
N – Normal Hardware  
R – Reversed Hardware

**Style Selector**  
See Hardware Selection Guide,  
page 25.

**Series Identification**  
1 – For all items in this  
publication

**Shroud Polarizing Code**  
leave blank, if not required.  
Contact Cannon for other options.

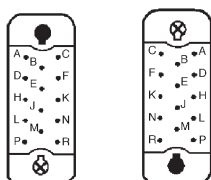
*For more information, please  
contact your local ITT Cannon sales  
office.*



### Contact Cavity Arrangements — Mating Face View

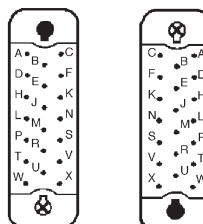
14-way

Plug Receptacle



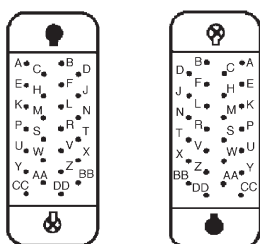
20-way

Plug Receptacle



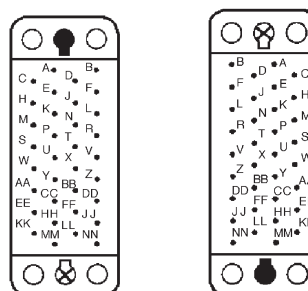
26-way

Plug Receptacle



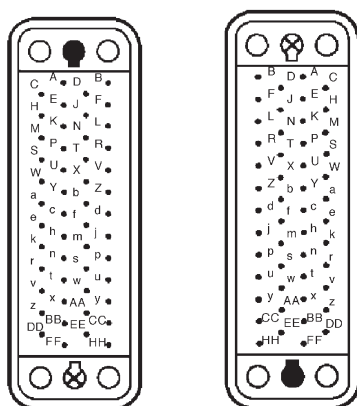
34-way

Plug Receptacle



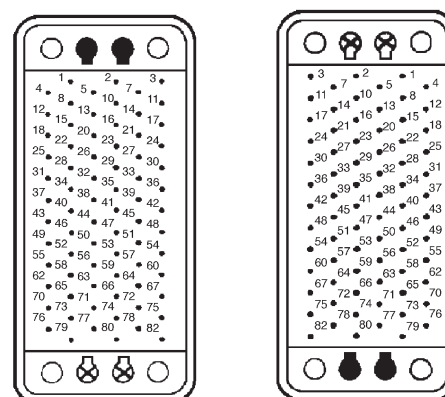
50-way

Plug Receptacle



75-way

Plug Receptacle



#### KEY

- ⊗ = Guide pin or male jack screw
- ⊙ = Guide socket or female jack screw
- = Fixing holes can be fitted with additional guide pins and sockets for discrimination



Style Selector — Hardware Selection Guide

Plain, No Accessories



Note: Shown without Pin Protection Shroud.

Jackscrews available on 34-way only.

	Rotating Jackscrews or Fixed Jackposts	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, receptacles have fixed jackposts.
  3. Reversed Hardware: Receptacles have rotating jackscrews, plugs have fixed jackposts.

Plastic Hood



	Rotating Jackscrews or Fixed Jackposts	Guide Pins & Sockets
No Shrouds	155 (34-way only)	159 (14, 20, 26 & 34-way only)
Shrouds	255 (34-way only)	285 (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, receptacles have fixed jackposts.
  3. Reversed Hardware: Receptacles have rotating jackscrews, plugs have fixed jackposts.

Die-Cast Hood



Note: Shown with Heavy Duty Jackscrew

	Rotating Jackscrews or Fixed Jackposts	Guide Pins & Sockets
No Shrouds	157 (50 & 75-way only)	185
Shrouds	257 (50 & 75-way only)	285

- Note:**
1. Connectors with Jackscrews will not mate with connectors with Guide Pins or Sockets.
  2. Normal Hardware: Plugs have rotating jackscrews, receptacles have fixed jackposts.
  3. Reversed Hardware: Receptacles have rotating jackscrews, plugs have fixed jackposts.

Straight Cable Clamp



	Rotating Jackscrews or Fixed Jackposts	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, receptacles have fixed jackposts.
  3. Reversed Hardware: Receptacles have rotating jackscrews, plugs have fixed jackposts.

90° Cable Clamp



	Standard Cable Exit to Left Rotating Jackscrews or Fixed Jackposts	Guide Pins & Sockets
No Shrouds	138	136
Shrouds	238	236

- Note:**
1. Connectors with Jackscrews will not mate with connectors with Guide Pins or Sockets.
  2. Normal Hardware: Plugs have rotating jackscrews, receptacles have fixed jackposts.
  3. Reversed Hardware: Receptacles have rotating jackscrews, plugs have fixed jackposts.

	Reversed Cable Exit to Right Rotating Jackscrews or Fixed Jackposts	Guide Pins & Sockets
No Shrouds	118	180
Shrouds	218	280

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