

The Slimline Range offers a low profile connector system that is well suited for circuit board applications. The precision machined contacts are ideal for power and sensitive signals. All Snap Together - Slimline connectors are RoHS Compliant.



Applications:

- Junction Boxes.
- Communications equipment.
- Test equipment.
- Instrumentation.

Product Features

- Less than 10,00 (.393) width on PC board.
- Pin headers pre-loaded with straight or 90° machined solder tail pins.
- Mating plug accepts all Trident signal crimp socket contacts, see page 64.
- Plugs have integrally molded quick connect/disconnect latches.
- Five single row contact arrangements available.
- Recognized under the component program of UL Inc.
- Gold plated version available with earth pin capability.
- 10 A per circuit.



Performance Specifications

Operating Voltage ¹	Up to 250 V ac rms
Contact Current Rating ²	Up to 10 A
Operating Temperature	-55°C to +105°C (-67°F to +221°F) for free Plug & Receptacles -40°C to +105°C (-40°F to +221°F) for PCB Mounted Receptacles
Insulation Resistance	5000MΩ min. at 500 V dc
Durability ³	Up to 500 Mating Cycles
Connector Latching Force	150 N min. with latches engaged
Panel Retention Force	500 N min.
Flammability	UL 94 V-0

Materials and Finishes

Insulator	Black Nylon, UL 94 V-0
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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

Test Specifications

The table below summarizes the results of key tests. Data is applicable to standard connectors with standard contacts. Variations may affect this data, so please consult factory for further information on your requirements.

Test	Method	Criteria of Acceptance
Dielectric Withstanding Voltage	2000 V ac	No breakdown
Thermal Shock	-55°C to +125°C (-67°F to +257°F), 5 cycles	No physical damage
Physical Shock	50 g's peak, 3 axes, 11 millisecond duration half-sine pulse	No physical damage. No loss of continuity >1 sec
Vibration	10 g's peak, 10-500 Hz, 9 hours	No physical damage, No loss of continuity >1 sec
Durability 500 cycles of mating and unmating, 500 mating cycles max	No mechanical or electrical defects	
Salt Spray	48 hours and meet contact resistance requirements	Shall be capable of mating and unmating
High Temperature Endurance	1000 hours at 125°C (+257°F)	Insulation Resistance > 100 MW
Humidly Steady State	RH 90-95%, 40°C (+125°F), 504 hours	Insulation Resistance > 100 MW
Moisture Resistance	10 Cycles	Insulation Resistance > 100 MW

How to Order

Typical Nomenclature: TST 03 P F 0 0 *

Series

TST = Trident Snap Together

Number of Contacts

03
04
06
09
10

Plating Style

* = None (Plug only)
T = Tin
Y = 0,4 µm Gold overall
Z = Gold Flash

Contact Type

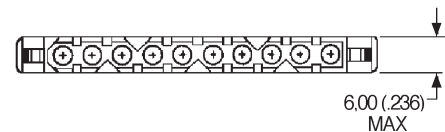
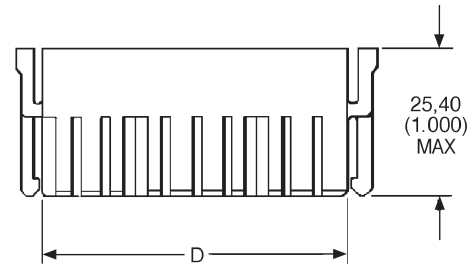
0 = No Contacts (Standard for Plug and Panel Mounted Receptacle)
1 = Machined Solder Tail Pin
2 = Machined Solder Tail Socket
5 = Formed Stamped Solder Tail Pin
6 = Formed Stamped Solder tail Socket

Color of Moulding

0 = Black

Variant

RD	PCB Receptacle; Straight Contacts
RE	PCB Receptacle; 90° Contacts
PF	Plug

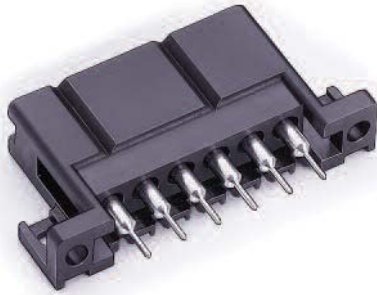


Plug Connector

- Socket contacts must be ordered separately for the plug connectors, see page 64.

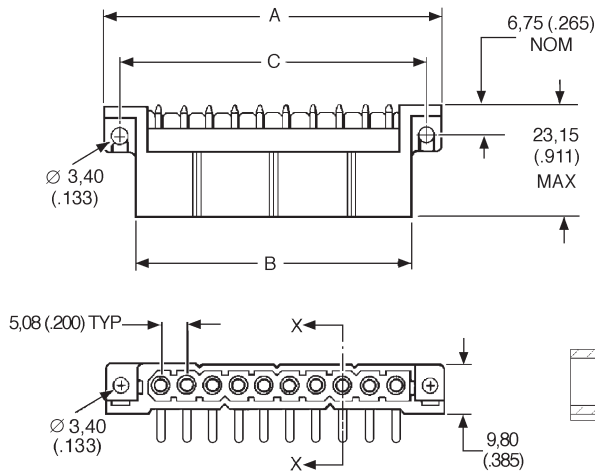
Part Numbers — Plug Connector

Number of Contacts	Pack of 100		D max.
	Part Number	Nomenclature	
3	192990-0960	TST03PF00	16,10 (.633)
4	192990-0970	TST04PF00	21,20 (.834)
6	192990-0980	TST06PF00	31,40 (1.236)
9	192990-0990	TST09PF00	46,60 (1.834)
10	192990-1000	TST10PF00	51,60 (2.031)



Receptacle for Straight Pin Contact

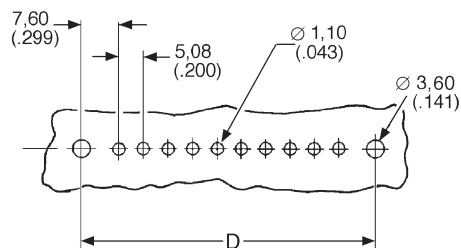
- For gold plated versions extended earth pins are available in any one or two positions. Contact your local Cannon Sales Office for further details.



Pack of 100

Number of Contacts	Gold Plated Version 0,4µm (16µin.) min. Gold		Tin Plated Version		Dimensions (max.)		
	Part Number	Nomenclature	Part Number	Nomenclature	A	B	C
3	192991-0337	TST03RD01Y	192991-0316	TST03RD01T	31,40 (1.236)	19,40 (.763)	25,50 (1.003)
4	192991-0347	TST04RD01Y	192991-0318	TST04RD01T	36,50 (1.437)	14,50 (.964)	30,60 (1.204)
6	192991-0342	TST06RD01Y	192991-0320	TST06RD01T	46,70 (1.838)	34,70 (1.366)	40,70 (1.602)
9	192991-0536	TST09RD01Y	192991-0322	TST09RD01T	61,90 (2.437)	49,90 (1.964)	56,00 (2.204)
10	192991-0354	TST10RD01Y	192991-0324	TST10RD01T	67,00 (2.637)	55,00 (2.165)	61,10 (2.405)

PCB Layout

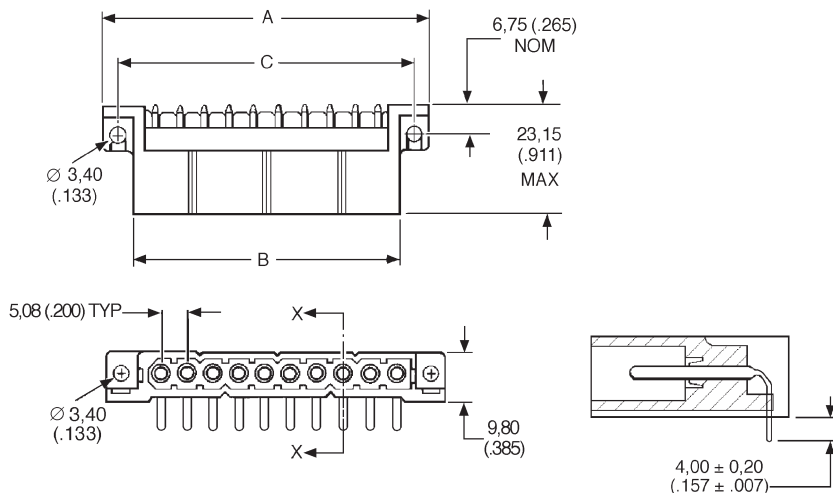


Number of Contacts	D max.
3	25,50 (1.003)
4	30,60 (1.204)
6	40,70 (1.602)
9	56,00 (2.204)
10	61,10 (2.405)



Receptacle for 90° Pin Contacts

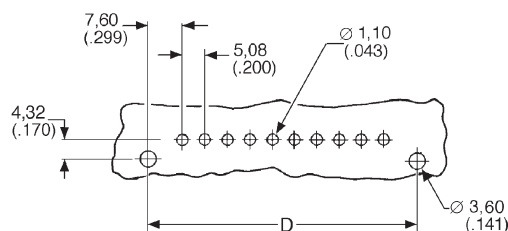
- For gold plated versions extended earth pins are available in any one or two positions. Contact your local Cannon Sales Office for further details.



Pack of 100

Number of Contacts	Gold Plated Version 0,4 μ m (16 μ in.) min. Gold		Tin Plated Version		Dimensions (max.)		
	Part Number	Nomenclature	Part Number	Nomenclature	A	B	C
3	192991-0532	TST03RE01Y	192991-0317	TST03RE01T	31,40 (1.236)	19,40 (.763)	25,50 (1.003)
4	192991-0533	TST04RE01Y	192991-0319	TST04RE01T	36,50 (1.437)	14,50 (.964)	30,60 (1.204)
6	192991-0534	TST06RE01Y	192991-0321	TST06RE01T	46,70 (1.838)	34,70 (1.366)	40,70 (1.602)
9	192991-0535	TST09RE01Y	192991-0323	TST09RE01T	61,90 (2.437)	49,90 (1.964)	56,00 (2.204)
10	192991-0538	TST10RE01Y	192991-0325	TST10RE01T	67,00 (2.637)	55,00 (2.165)	61,10 (2.405)

PCB Layout



Number of Contacts	D max.
3	25,50 (1.003)
4	30,60 (1.204)
6	40,70 (1.602)
9	56,00 (2.204)
10	61,10 (2.405)