

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 +120°C (-67°F to +248°F)	No physical damage
Physical Shock	40 g's peak, 3 axes, 6 millisecond duration half-sine pulse	No physical damage. No loss of continuity >10 sec
Vibration	10 g's peak, 10-500 Hz	No physical damage, No loss of continuity >10 sec
Durability	500 cycles of mating and unmating, 500 mating cycles max	No mechanical or electrical defects
Salt Spray	48 hours	Shall be capable of mating and unmating and meet contact resistance requirements
High Temperature Endurance	1000 hours at 85°C (+185°F) 250 hours at 120°C (+248°F)	Insulation Resistance > 100 MΩ
Humidity Steady State	RH 90-95%, 40°C (+104°F), 504 hours	Insulation Resistance > 100 MΩ

How to Order-Connectors

Typical Nomenclature: TN 7 S 24 - 1219 P 1 B 01

Series

TN = Trident Neptune

Shell Style

- 0 = Flange Receptacle (4 holes)
- 6 = Plug
- 7 = Jam Nut Receptacle

Sealing Class

- G = Grommet, no nut
- L = Large Grommet, extender and nut (*Size 24-0048 only, Jam Nut Receptacle not supported*)
- S = With Grommet and nut
- U = Unsealed

Modification

- * = Standard
- 01 = Jam Nut Receptacles bulk packages are delivered without nut
See page 50 for Spare Jam Nuts

Packaging

- B = Bulk (100 pcs)
- L = Single Pack

Connector Finish Materials

- 1 = Standard (Nickel Plated Metal Parts)
- 2 = Plastic Coupling Nut (*TN plug shell sizes 16 and 24 only*)

Contact Type

- P = Pin
- S = Socket

Shell Size and Contact Arrangement

Shell Size		Number of Power Contacts	Number of Signal Contacts
14	-	00	12
16	-	00	19
16	-	02	13
24	-	12	19
24	-	04	20
24	-	04	28
24	-	00	48

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



How to Order-Accessories

Typical Nomenclature:

TNA 24 CA01 - 20 L

Series
TNA = Trident Neptune Accessory

Packaging
B = Bulk
L = Single Pack

Shell Size

14
16
24
** Blanking Plug

Accessory Style, Type, and Size		
Conduit Adapter		
CA	01-xx	Type 1, xx=diameter of conduit*
CA	02-xx	Type 2, xx=diameter of conduit*
CA	03-xx	Type 3, xx=diameter of conduit*
Cable Clamp		
CC	HC-00	Sealed
CC	SR-00	Unsealed
Panel Gasket		
PG	01-00	Flange Type
PG	03-00	Jam Nut Type
Dust Cap		
DC	P0-00	Sealed Dust Cap, Plug
DC	R0-01	Sealed Dust Cap, Receptacle (Top Hat)***
Spare Jam Nut		
JN	00-00	
Blanking Plug		
BP	SG-00	For Signal Holes

*** Can be sealed up to IP 67

*Conduit Adapter Sizes		
Shell Size	Type	Diameter (mm)
14	01	12
16	01	20
16	02	18
24	01	20
24	01	25
24	02	25
24	02	26
24	03	34