

T9 Series

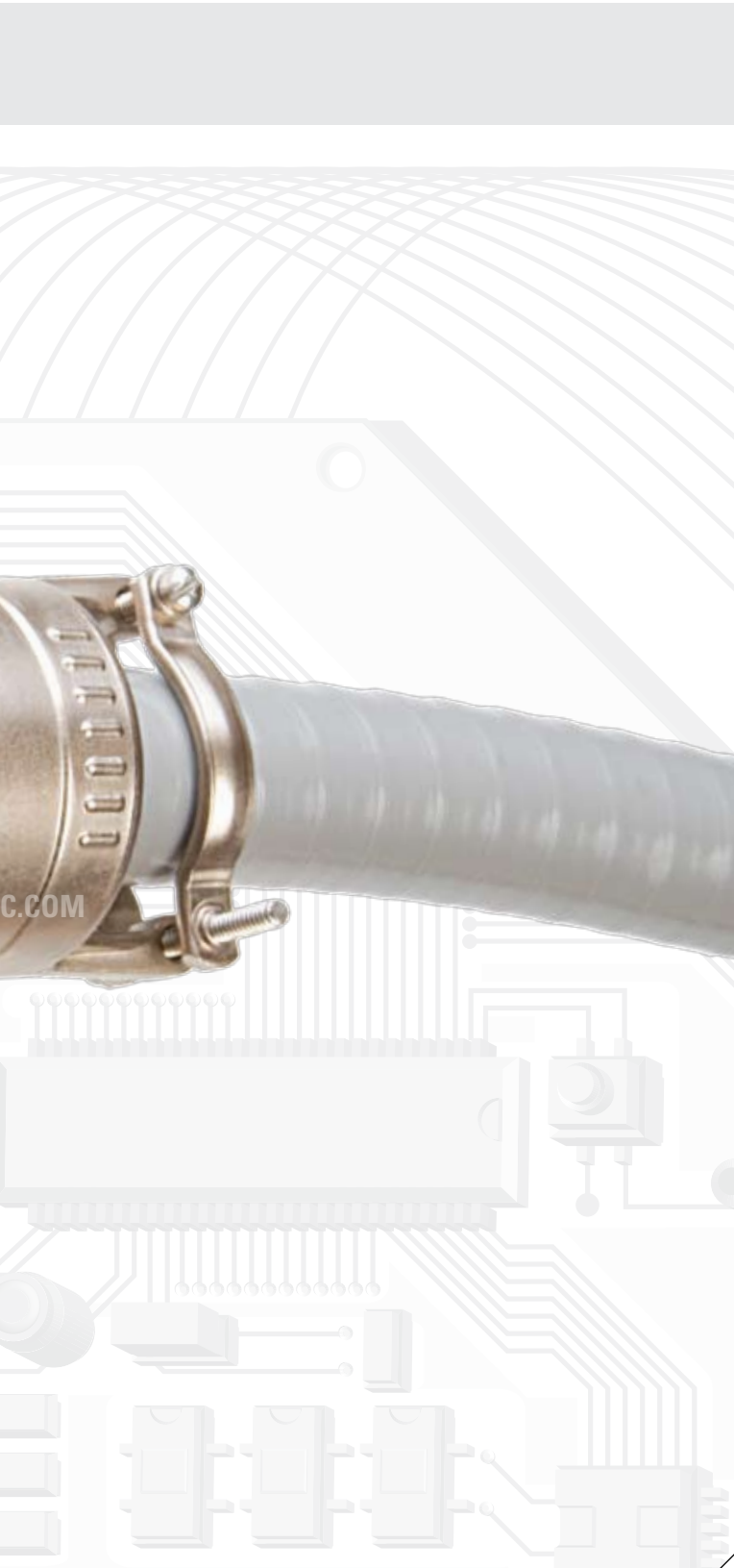
Military & Aerospace Connectors



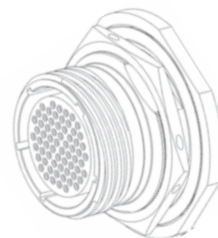
The T9 Series of connectors is the top choice for advanced applications. The series features the widest selection of contacts, shell materials, and finishes to meet the most demanding design requirements. A superior coupling mechanism and IP67 environmental and EMI/RFI protection ensure complete reliability.

- Wide Variety of Contacts
- Self-Locking Coupling
- IP67 Environmental Protection
- 100% Scoop-Proof Shell Design
- Stainless Steel Shells Available
- Space-Grade Rated

Rev. 1302.1



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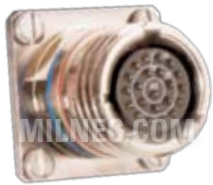
Features & Benefits

T9 Series • Advanced Military & Aerospace Connectors

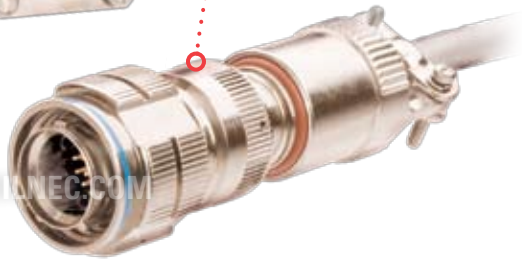
Connectors for Advanced Technology

The T9 Series is the most technologically advanced series of cylindrical connectors available. T9 connectors can accommodate the highest density of contacts in one connector and feature the most comprehensive selection of contacts available, including fiber optic, twinax, coax, quadrax, and PC tail contacts. Coupling is achieved with one 360° turn of the self-locking coupling ring, which is designed with triple-start, impact-resistant stub threads. Standard RFI grounding fingers provide superior shell-to-shell conductivity for shielded applications, while available stainless steel shells protect connectors during rough handling or extreme temperatures. For applications that demand the absolute best, T9 connectors are the only choice.

- High-density, up to 128 contacts (#22D)
- Wide variety of specialty contacts (PC tail, RF, fiber optic)
- Self-locking, ratchet coupling
- Triple-start, impact-resistant stub threads
- IP67 environmental rating
- Stainless steel and composite shells available
- 100% scoop-proof shell design for contact protection
- Six alternate key positions protect from cross-mating
- Hermetic receptacles available for vacuum applications



Highest Reliability Connector
T9 Series connectors offer the most features and options in a ruggedized cylindrical connector for mission-critical applications.



Widest Variety of Materials & Finishes

The T9 series offers the widest selection of connector material and finish options to meet the demands of modern design requirements and ensure complete connector protection.



- Firewall rated, passivated stainless steel
- Eco-friendly RoHS finishes available
- Aerospace-grade aluminum
- Lightweight composite
- Space-grade aluminum

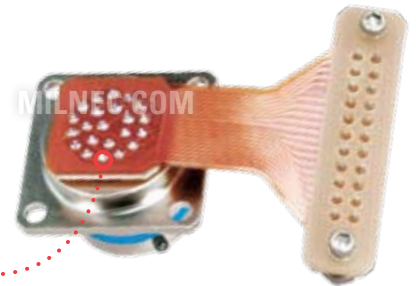
EMI/RFI & Environmental Protection
The T9 Series provides a wide range of backshell options for total EMI/RFI and IP67 rated environmental protection to ensure complete system reliability.

Ultimate Contact Design Flexibility

The T9 Series provides the ultimate flexibility in contact design, density, and shell size. In addition, the series simplifies interconnect systems by enabling multiple wire and cable types, including RF and fiber optic, to be bundled together into the same connector package.



- Crimp power contacts from size #12 to #22D
- High-cycle contacts available (1,500 mating cycles)
- High-speed RF contacts (coax, triax, quadrax)
- Fiber optic contacts
- PC tail contacts
- Thermocouples

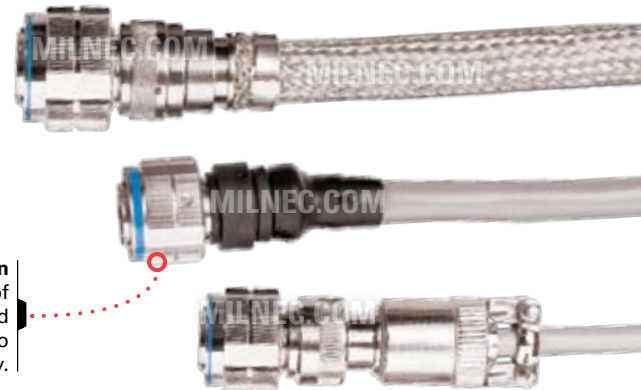


PC Tail Contact Solutions
Simplify designs and improve signal integrity by allowing connection directly to boards or flex cable devices.

Waterproof IP67 Environmental Rating

T9 connectors are environmentally protected by an integrated interfacial seal that provides moisture resistance when mated, as well as an elastomer wire seal around each contact to prevent moisture penetration from the rear of the connector. A complete selection of environmental backshells or shrink boots provides a variety of cable sealing options to best suit your design requirements.

- Moisture resistance comparable to MIL-PRF-7808, MIL-PRF-23699, MIL-PRF-5606, SAE ASM1424 Type 1
- Hermetic versions available in four receptacle styles
- 2,000 hr salt spray rating with composite shells
- Individual wire seals around each contact
- Interfacial seal and cable sealing grommet

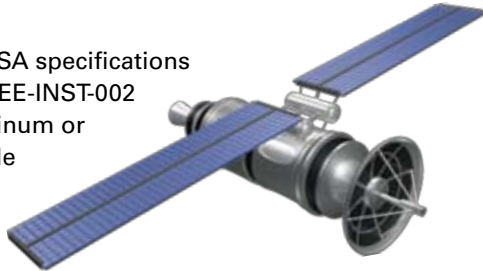


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Space-Grade Connectors & Accessories

Whether it be for high-altitude aircraft or for satellites circling the globe, the T9 Series offers interconnect solutions for these advanced applications through the use of space-grade aluminum components and thermoplastic composite that meet NASA specifications.

- Outgassed per NASA specifications ATSM E-595 and EEE-INST-002
- Space-grade aluminum or composite available

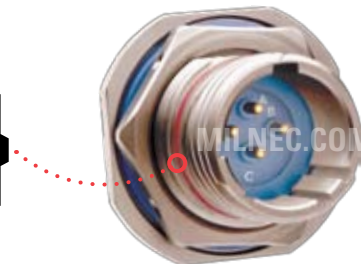


Hermetic Connectors Prevent Gas Ingress

For applications that require an airtight connector solution, the T9 Series offers hermetic receptacles. Hermetics are often used for maintaining pressure differentials in pressurized enclosures or vacuum chambers. They are also used to prevent dew point condensation that can affect sensors or other critical electronic systems and components.

- Four hermetic receptacle styles available
- Compression glass inserts
- Stainless steel shells

Superior Hermetic Sealing
T9 Series' extensive selection of hermetic receptacles with advanced vitreous inserts provides a wide range of mounting options.



Wide Selection of Protective Accessories

To give your connectors true IP67 environmental protection, they should be used in conjunction with matching sealing accessories. The T9 series offers a wide selection of protective accessories for mission-critical applications, including EMI/RFI environmental backshells and strain reliefs.

- Mounting brackets and sealing screws
- Protective covers with gaskets
- Stowage Receptacles
- Mounting Gaskets



Features & Benefits

Plug

- Straight w/ RFI grounding fingers

Receptacles

- Wall mount
- Jam nut
- Cable mount
- Thru-bulkhead

Hermetic Receptacles

- Box mount, jam nut, solder mount
- Jam nut thru-bulkhead

Backshells

- Strain relief, EMI/RFI environmental
- Shrink boots with EMI/RFI banding

Contacts

- Crimp power, coax, twinax, thermocouple
- PC tail & fiber optic

Inserts

- Heat & fluid resistant
- 63 insert combinations
- 6 alternate key positions

Accessories

- Protective cover with wire rope
- Stowage receptacle
- Mounting gasket
- Mounting bracket with sealing screws

Material

- Aluminum
- Stainless steel
- Composite

Finishes

- Olive drab cadmium
- Electroless nickel
- RoHS compliant finishes available

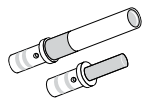
Coupling

- Ratchet coupling
- Self-locking coupling ring
- Triple-start, impact-resistant threads

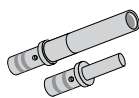
Component Overview

T9 Series • Advanced Military & Aerospace Connectors

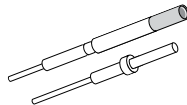
Contacts



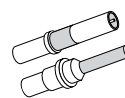
Power
p. F-10



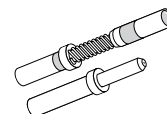
Thermocouple
p. F-10



PC Tail
p. F-13

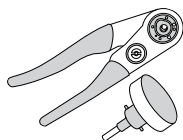


Coax & Twinax
p. F-11

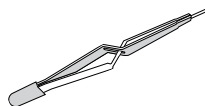


Fiber Optic
p. F-12

Tools



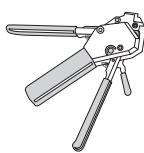
Crimper & Positioner
p. F-10



Insertion/Extraction
p. F-10



Heat Gun
p. F-53

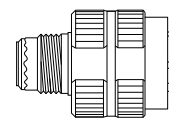


Banding Tool
p. F-54



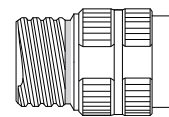
Band
p. F-54

Plugs



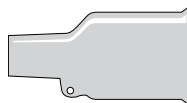
Plug (Self-Locking)
p. F-23

Specialty



Connector Saver
p. F-30

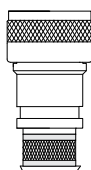
Backshells



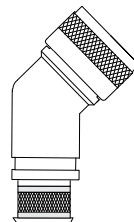
Shrink Boots
Straight
p. F-43



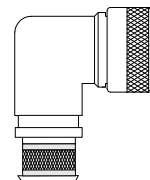
90°
p. F-44



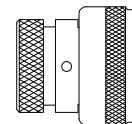
EMI/RFI Banding Boot Adapters
Straight
p. F-46



45°
p. F-46



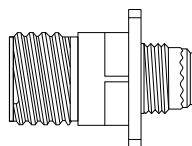
90°
p. F-46



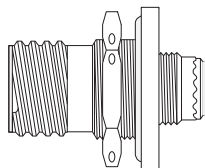
Boot Adapter
p. F-45

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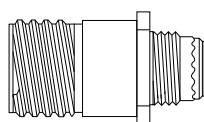
Receptacles



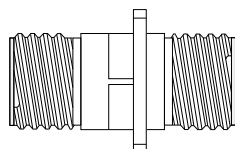
Wall Mount
p. F-24



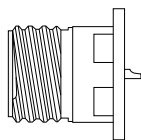
Jam Nut
p. F-25



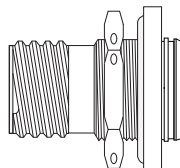
Cable Mount
p. F-26



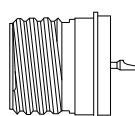
Thru-Bulkhead
p. F-31



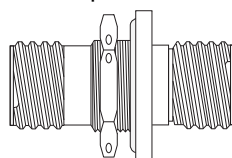
Box Mount (Hermetic)
p. F-27



Jam Nut (Hermetic)
p. F-28

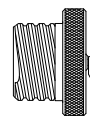


Solder Mount (Hermetic)
p. F-29



Jam Nut Thru-Bulkhead (Hermetic)
p. F-32

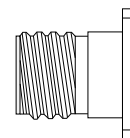
Covers



Plug Cover
p. F-47

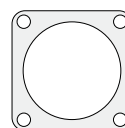


Receptacle Cover
p. F-47

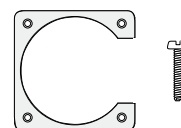


Stowage Receptacle
p. F-48

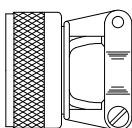
Mounting



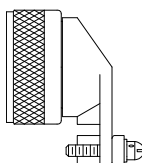
Gasket
p. F-49



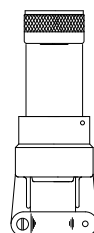
Bracket & Screws
p. F-50



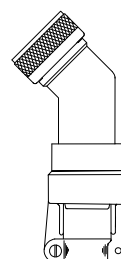
Strain Relief
Straight
p. F-33



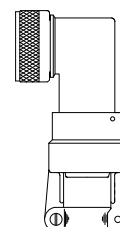
90°
p. F-33



Straight
p. F-35



EMI/RFI Environmental
45°
p. F-39



90°
p. F-41

Series Specifications

T9 Series • Advanced Military & Aerospace Connectors

Performance Specifications

Built to meet or exceed MIL-DTL-38999 specifications
Guaranteed fully compatible and interchangeable with respect to physical and performance characteristics with all existing MIL-DTL-38999 Series III commercial, military, and NASA derivatives

Environmental Characteristics

Temperature Range

-67° to +392°F (-55° to +200°C)
Service life varies with the maximum internal hot spot temperature resulting from any combination of electrical load or ambient temperature:
77°F (25°C): Continuous
221°F (105°C): 45,000 hours
392°F (200°C): 1,000 hours

Water Pressure

IP67 rating (environmental sealing) when used in conjunction with proper sealing accessories
Fully submersible to 3.3 ft (1m) for minimum of 30 min

Air Leakage Rate

Environmental

Air leakage not to exceed 1 inch³/hr (4.55 x 10⁻³ cm³/sec) at 30 psi (2.11 kg/cm²) pressure differential with all contact cavities filled

Hermetic

Helium leakage not to exceed 0.01 micron per ft³/hr (1.0 x 10⁻⁶ cc³/sec) at 15 psi (1.1 kg/cm²)
Hermetic inserts rated up to 14,000 psi (984 kg/cm²) when precision welded or solder mounted

Thermal Vacuum Outgassing

For space grade (G) connectors, all nonmetallic materials used in connector assembly shall not release greater than 1.0% total mass loss and 0.1% collected volatile condensable material when tested as specified per ATSM E-595 and EEE-INST-002

Salt Spray Rating

See Materials & Finishes, p. F-16

Humidity

Mated connectors shall maintain an insulation resistance of 100 megohms or greater at 77°F (25°C) with 95% humidity for duration of 20 days

Chemical Resistance to Fluids

20-hour full immersion (unmated) in hydraulic fluid and lubricating oil without damage or material degradation

Lightning Strike Resistance

Per EIA/ECA-364-75, mated connectors with full wire braid shield assembly will show resistance to indirect lightning strike with the following peak currents (amps):
Aluminum & Stainless Steel Shells: 10,000A
Composite Shells: 6,000A (3,000A, shell size 9 only)

Physical Characteristics

Coupling

Coupling is achieved by one 360° clockwise turn of the coupling ring, triple-start metric stub thread design, with integrated self-locking ratchet mechanism

Scoop-Proof

Shell design is 100% scoop-proof to prevent contact raking in blind-mate applications

Coupling Torque

Engagement & Disengagement Force (max / min)
Shell Size 9: .67 ft-lb_f (.904 N-m) / .08 ft-lb_f (.113 N-m)
Shell Size 11: .83 ft-lb_f (1.13 N-m) / .08 ft-lb_f (.113 N-m)
Shell Size 13: 1.17 ft-lb_f (1.58 N-m) / .17 ft-lb_f (.226 N-m)
Shell Size 15: 1.42 ft-lb_f (1.92 N-m) / .33 ft-lb_f (.452 N-m)
Shell Size 17: 1.92 ft-lb_f (2.60 N-m) / .33 ft-lb_f (.452 N-m)
Shell Size 19: 2.17 ft-lb_f (2.94 N-m) / .33 ft-lb_f (.452 N-m)
Shell Size 21: 2.58 ft-lb_f (3.50 N-m) / .50 ft-lb_f (.678 N-m)
Shell Size 23: 3.16 ft-lb_f (4.29 N-m) / .58 ft-lb_f (.791 N-m)
Shell Size 25: 3.16 ft-lb_f (4.29 N-m) / .58 ft-lb_f (.791 N-m)

Polarization

Single master key and keyway on top position of shell
Four minor keys and keyways on shell

Insert Arrangements

63 standard, custom inserts available

Alternate Keying

Normal polarization (N), plus 5 alternate shell keying polarizations (A, B, C, D, E)

Endurance Characteristics

Coupling Cycles

500 coupling cycles (minimum)

Shock

Half-sine wave with 300g's (±15%) magnitude with duration of 3 milliseconds with less than 1 microsecond maximum discontinuity with no cracking, loosening of parts, or other failures

High-Impact Shock

Per MIL-S-901, a 400 lbs (181 kg) hammer dropped onto assembly from height of 1 ft (30 cm), 3 ft (91 cm), and 5 ft (152 cm) applied to connector assembly in 3 axes, totaling 9 impacts, connector assembly experienced less than 1 microsecond maximum discontinuity with no cracking, loosening of parts, or other failures

Sine Vibration

Random vibration at 10 to 2,000 Hz (15 g's) experienced less than 1 microsecond maximum discontinuity with no cracking, loosening of parts, or other failures

Random Vibration

Per MIL-STD-1344, method 205, V & VI or EIA-364-28

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Material Characteristics

Shell

Environmental

Aluminum, solid, one piece, seamless construction
Stainless Steel, solid, one piece, seamless construction
Composite, solid, one piece, seamless construction

Hermetic

Stainless Steel, solid, one piece, seamless construction

Shell Plating (Standard Finishes)

W Finish

Electrically conductive cadmium plate finish with an olive drab chromate after-treat for additional corrosion resistance (500 hr salt spray rating)

N, G Finish

Electrically conductive electroless nickel plating (48 hr salt spray rating)

K Finish

Passivated
(1,000 hr salt spray rating)

RFI Grounding Fingers

Beryllium copper alloy or stainless steel

Shell Conductivity (Standard Finishes)

Per MIL-STD-1344, method 3008, maximum conductivity potential drop shall not exceed the following:

W Finishes

2.5 millivolts across assembly shell-to-shell
5.0 millivolts across assembly shell-to-braid

N, G, K, KS, L Finishes

1.0 millivolts across assembly shell-to-shell
3.5 millivolts across assembly shell-to-braid

J, M Finishes

3.0 millivolts across assembly shell-to-shell
6.0 millivolts across assembly shell-to-braid

HA, HB Finishes

10.0 millivolts across assembly shell-to-shell
15.0 millivolts across assembly shell-to-braid

Magnetic Permeability

Less than 2.0 μ when measured to EIA-364-54

Insert

Glass filled liquid crystal polymer (LCP)
Non-removable and mechanically bonded to shell

Hermetic Insert

Vitreous (glass compression)
Non-removable and mechanically bonded to shell

Protective Cover Chain

Passivated stainless steel, wire rope able to withstand a 25 lb (11.3 kg) tensile force without damage

Adhesives

RTV and epoxies

Grommet, Peripheral Seal, O-Ring, & Interfacial Seal

Blended fluorosilicone (70%) and silicone (30%) elastomer

Contact Characteristics

Contact Design

Environmental

Removable, rear-release crimp contacts

Hermetic

Solder style, permanently bonded to insert

Contact Sizes

#8 (Coax, Twinax), #12, #16, #20, #22D

Contacts Crimp

Beryllium copper alloy, per ASTM B197

Contacts Hermetic

Nickel-iron (Type 52 alloy), per ASTM F30

Contact Plating

Standard Crimp

Gold plate over nickel, 50 μ inches (1.27 μ m) minimum

High-Cycle Crimp

Gold plate over nickel, 150 μ inches (4.00 μ m) minimum

Hermetic

Gold plate over nickel, 50 μ inches (1.27 μ m) minimum

Socket Contact Hood

Stainless steel, passivated

Max Number of Contacts

128 x #22D contacts standard, custom inserts available

Max Contact Resistance

Size #22D: 14.6 milliohm maximum
Size #20: 7.3 milliohm maximum
Size #16: 3.8 milliohm maximum
Size #12: 1.7 milliohm maximum
Size #8: 3.0 milliohm maximum

Max Voltage Drop

Crimp Contacts

<73 millivolt maximum drop (initial)

Hermetic Contacts

<85 millivolt maximum drop (initial)

Contact Retention

Pin and socket contacts are designed to resist severe vibration and repeated connection and disconnection

Electrical Characteristics

Current Rating

23 amps (test current) at 68°F (20°C)

Max Operating Voltage

900 VAC (RMS) at sea level

Insulation Resistance

>5,000 megohms at 77°F (25°C)

Wire Size

12 to 28 (AWG)

Wire Sealing Range

Designed for individual wire sealing
Sealing is only guaranteed if wires meet MIL-W-5086 or within permitted ranges

Contact Specifications

T9 Series • Advanced Military & Aerospace Connectors

Wire & Crimp Contact Dimensions

Contact Size	Wire Range		Potential Drop (Millivolts)	Crimp Well Diameter	Min Crimp Well Depth	Wire Jacket Diameter Sealing Range		Contact Retention Min Axial Load Pounds (Newtons)
	AWG	Dia				Min	Max	
#22D	22, 24, 26, 28	.012-.025 (.32-.64)	<73	.035 (.89)	.141 (3.58)	.030 (.76)	.054 (1.37)	10 (44.5)
#20	20, 22, 24	.020-.032 (.51-.81)	<55	.047 (1.19)	.209 (5.31)	.040 (1.02)	.083 (2.11)	15 (66.7)
#16	16, 18, 20	.032-.050 (.81-1.29)	<49	.067 (1.70)	.209 (5.31)	.065 (1.65)	.109 (2.77)	25 (111.2)
#12	12, 14	.064-.080 (1.62-2.05)	<42	.100 (2.54)	.209 (5.31)	.097 (2.46)	.142 (3.61)	30 (133.4)

Dimensions are in inches (mm) unless otherwise noted.

Wire & Solder Contact Dimensions (Hermetic)

Contact Size	Wire Range		Potential Drop (Millivolts)	Solder Well Diameter	Min Solder Well Depth	Wire Jacket Diameter Sealing Range		Contact Retention Min Axial Load Pounds (Newtons)
	AWG	Dia				Min	Max	
#22D	22, 24, 26, 28	.012-.025 (.32-.64)	<85	.036 (.91)	.094 (2.39)	.030 (.76)	.054 (1.37)	10 (44.5)
#20	20, 22, 24	.020-.032 (.51-.81)	<60	.044 (1.12)	.125 (3.18)	.040 (1.02)	.083 (2.11)	15 (66.7)
#16	16, 18, 20, 22	.025-.050 (.64-1.29)	<85	.078 (1.98)	.141 (3.58)	.065 (1.65)	.109 (2.77)	25 (111.2)
#12	12, 14	.064-.080 (1.62-2.05)	<82	.116 (2.95)	.141 (3.58)	.097 (2.46)	.142 (3.61)	30 (133.4)

Dimensions are in inches (mm) unless otherwise noted.

Current Rating By Contact Size & Wire Size

Wire Size (AWG)	Contact Size			
	#22D	#20	#16	#12
28	1.5A	-	-	-
26	2A	-	-	-
24	3A	3A	-	-
22	5A	5A	-	-
20	-	7.5A	7.5A	-
18	-	-	10A	-
16	-	-	13A	-
14	-	-	-	17A
12	-	-	-	23A

Test ratings only. A connector cannot withstand maximum current through all contacts continuously. Please note that the establishment of electrical safety factors is left entirely in the designer's hands, since he or she is in the best position to know what peak voltage, switching surges, transients, etc. can be expected in a particular circuit.

Shielding Effectiveness

Freq Range (Mhz)	Attenuation Minimum (dB)
100	90
200	88
300	88
400	87
800	85
1,000	85
1,500	76
2,000	70
3,000	69
4,000	68
6,000	66
10,000	65

Effective over a range of 100 MHz to 10 GHz with a minimum 50 dB effectiveness at 10 GHz, in accordance with test method EIA-364-10.

Mated Connector Dimensions

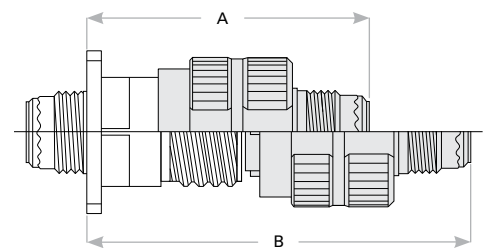
Shell Size	A Max	B Max	C Max	D Max
9	1.457 (37.0)	2.059 (52.3)	1.508 (38.3)	2.110 (53.6)
11	1.457 (37.0)	2.059 (52.3)	1.508 (38.3)	2.110 (53.6)
13	1.457 (37.0)	2.059 (52.3)	1.516 (38.5)	2.118 (53.8)
15	1.457 (37.0)	2.059 (52.3)	1.516 (38.5)	2.118 (53.8)
17	1.457 (37.0)	2.059 (52.3)	1.516 (38.5)	2.118 (53.8)
19	1.457 (37.0)	2.059 (52.3)	1.516 (38.5)	2.118 (53.8)
21	1.417 (36.0)	2.020 (51.3)	1.516 (38.5)	2.118 (53.8)
23	1.417 (36.0)	2.020 (51.3)	1.516 (38.5)	2.118 (53.8)
25	1.417 (36.0)	2.020 (51.3)	1.516 (38.5)	2.118 (53.8)

Dimensions are in inches (mm).

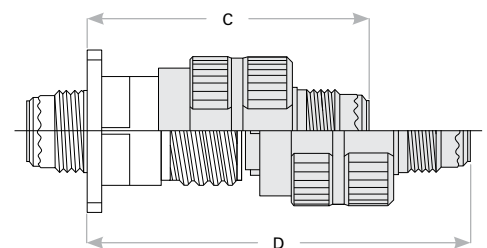
Contact Derating Specifications

Service Rating	Max Operating Voltage (Sea Level)		Test Voltage			
	AC (RMS)	DC	Sea Level AC (RMS)	50,000 ft AC (RMS)	70,000 ft AC (RMS)	110,000 ft AC (RMS)
M	400	500	1,300	550	350	200
N	300	450	1,000	400	260	200
I	600	850	1,800	600	400	200
II	900	1,250	2,300	800	500	200

Test ratings only. A connector cannot withstand maximum current through all contacts continuously. Please note that the establishment of electrical safety factors is left entirely in the designer's hands, since he or she is in the best position to know what peak voltage, switching surges, transients, etc. can be expected in a particular circuit.



T900 Wall Mount Receptacle & T906 Plug



T900 Jam Nut Receptacle & T906 Plug

Rev. 1302.1

Power Contacts, Sealing Plugs, & Tooling

Contact Size	Contact Style	Part Number	Wire Size (AWG)	Wire Range (Dia)	Jacket Strip Length	Crimping Tool	Positioner	Insertion Tool	Extraction Tool
#22D	Standard Pin	T9PP22	22, 24, 26, 28	.012–.025 (.32–.64)	.157 (4.00)	TK201	TP209 (pins only)	TN801	TX802
	High-Cycle Pin	T9HP22					TP207 (socket only)		
	Standard Socket	T9SS22							
	High-Cycle Socket	T9HS22							
	Sealing Plug	T9SP22					No Tooling Required		
#20	Standard Pin	T9PP20	20, 22, 24	.020–.032 (.51–.81)	.197 (5.00)	TK101	TP104 (Turret)	TN805	TX806
	High-Cycle Pin	T9HP20							
	Standard Socket	T9SS20							
	High-Cycle Socket	T9HS20							
	Sealing Plug	T9SP20					No Tooling Required		
#16	Standard Pin	T9PP16	16, 18, 20	.032–.050 (.81–1.29)	.236 (6.00)	TK101	TP104 (Turret)	TN807	TX808
	High-Cycle Pin	T9HP16							
	Standard Socket	T9SS16							
	High-Cycle Socket	T9HS16							
	Sealing Plug	T9SP16					No Tooling Required		
#12	Standard Pin	T9PP12	12, 14	.064–.080 (1.62–2.05)	.236 (6.00)	TK101	TP104 (Turret)	TN809	TX810
	High-Cycle Pin	T9HP12							
	Standard Socket	T9SS12							
	High-Cycle Socket	T9HS12							
	Sealing Plug	T9SP12					No Tooling Required		

Dimensions are in inches (mm) unless otherwise noted.

Thermocouple Contacts

Contact Size	Contact Style	Part Number	Wire Size (AWG)	Wire Range (Dia)	Jacket Strip Length	Crimping Tool	Positioner	Insertion Tool	Extraction Tool			
#22D Alumel	Pin	T9PA22	22, 24, 26, 28	.012–.025 (.32–.64)	.157 (4.00)	TK201	TP209	TN801	TX802			
	Socket	T9SA22					TP207					
#22D Chromel	Pin	T9PR22					TP209					
	Socket	T9SR22					TP207					
#22D Constantan	Pin	T9PK22					TP209					
	Socket	T9SK22					TP207					
#22D Iron	Pin	T9PE22					TP209					
	Socket	T9SE22					TP207					
#20 Alumel	Pin	T9PA20	20, 22, 24	.020–.032 (.51–.81)	.197 (5.00)	TK101		TN805	TX806			
	Socket	T9SA20										
#20 Chromel	Pin	T9PR20										
	Socket	T9SR20										
#20 Constantan	Pin	T9PK20										
	Socket	T9SK20										
#20 Iron	Pin	T9PE20								TP104 (Turret)		
	Socket	T9SE20										
#16 Alumel	Pin	T9PA16	16, 18, 20	.032–.050 (.81–1.29)	.236 (6.00)	TK101		TN807	TX808			
	Socket	T9SA16										
#16 Chromel	Pin	T9PR16										
	Socket	T9SR16										
#16 Constantan	Pin	T9PK16										
	Socket	T9SK16										
#16 Iron	Pin	T9PE16										
	Socket	T9SE16										

Dimensions are in inches (mm) unless otherwise noted.

Rev. 1231.1

Coax & Twinax Contacts

T9 Series • Advanced Military & Aerospace Connectors

Coax Contacts

Cable	Contact Size	Part Number		Crimping Tools		Positioners		Installation Tools	
		Pin	Socket	Inner	Outer	Inner	Outer	Insertion	Extraction
RG-178B/U RG-196A/U M17/093-RG178 M17/169-00001	#16	T9PX16-002	T9SX16-003		TK401	TP235	TP402	TN807	TX808
RG-161/U RG-174A/U RG-179B/U RG-187A/U RG-188A/U RG-316/U Haveg 8100207 Times (HS-179) AA3248 Teledyne 11299 Thermax 75-738-BCCWWE Tensolite 3088/L707YX-1		T9PX16-004	T9SX16-005						
M17/119-RG174 M17/094-RG179 M17/113-RG316	#12	T9PX12-006	T9SX12-007	TK201	TK3101	TP234	TP3102	TN809	TX810
RG-180B/U RG-195A/U Raychem 9528A1318 Raychem 9527D1514-2L Microdot 293-3922		T9PX12-008	T9SX12-009						
M17/095-RG180									
M17/113-RG316 M17/094-RG179		T9PX12-010	T9SX12-011	TK992		TP1360	TP503		
RG-180B/U RG-195A/U Raychem 9527D1514-2L M17/095-RG180	#8	T9PX08-012	T9SX08-013	TK201	TK501	TP231	TP505	N/A	TX814

Twinax Contacts

Cable	Contact Size	Contact Part Number		Crimping Tools		Positioners		Installation Tools	
		Pin	Socket	Inner	Outer	Inner	Outer	Insertion	Extraction
M17/176-00002	#8	T9PW08-002	T9SW08-003	TK201	TK501	TP231	TP505	N/A	TX2648

Coax, Twinax, & Quadrax PC Tails

For added engineering flexibility in today's advanced electronic designs, Milnec can provide coax or twinax contacts with PC tails. Custom tail lengths and tail diameters enable engineers to bring high-speed transmission directly to PC board applications with improved signal integrity. Please consult an authorized distributor for lead time information and minimum quantity requirements for special order high-speed PC tail contacts.

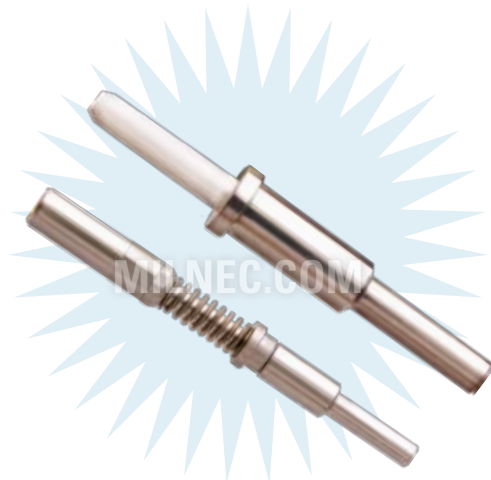


Rev. 1302.1

Size #16 Fiber Optic Contacts

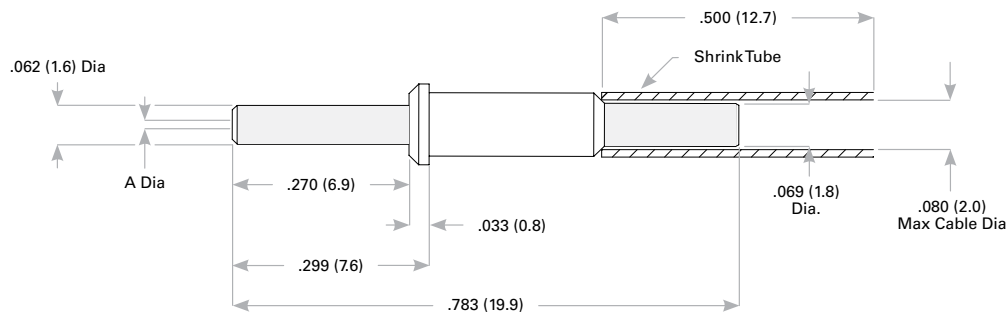
Pin Part Number	Socket Part Number	Fiber Size Core/Cladding	Mode	A Dia (Microns)	Tooling
T9PF-125S*	T9SF-125S*	9/125	Single	125.5	
T9PF-126S*	T9SF-126S*	9/125	Single	126	
T9PF-126M	T9SF-126M*	50/125 & 62.5/125	Multi	126	
T9PF-127M	T9SF-127M	50/125 & 62.5/125	Multi	127	
T9PF-142M	T9SF-142M	100/140	Multi	142	
T9PF-144M	T9SF-144M	100/140	Multi	144	
T9PF-145M*	T9SF-145M*	100/140	Multi	145	Insertion Tool
T9PF-156M*	T9SF-156M*	62.5/125/155 (Polyimide)	Multi	156	TN807
T9PF-157M*	T9SF-157M*	62.5/125/155 (Polyimide)	Multi	157	
T9PF-173M	T9SF-173M	100/140/172 (Polyimide)	Multi	173	Removal Tool
T9PF-175M*	T9SF-175M*	100/140/172 (Polyimide)	Multi	175	TX808
T9PF-231M*	T9SF-231M*	200/230	Multi	231	
T9PF-236M*	T9SF-236M*	200/233	Multi	236	
T9PF-286M*	T9SF-286M*	200/280	Multi	286	
T9PF-448M*	T9SF-448M*	400/440	Multi	448	
T9PF-533M*	T9SF-533M*	486/500	Multi	533	

* Special order item, please consult an authorized distributor for lead time and minimum quantity requirements.

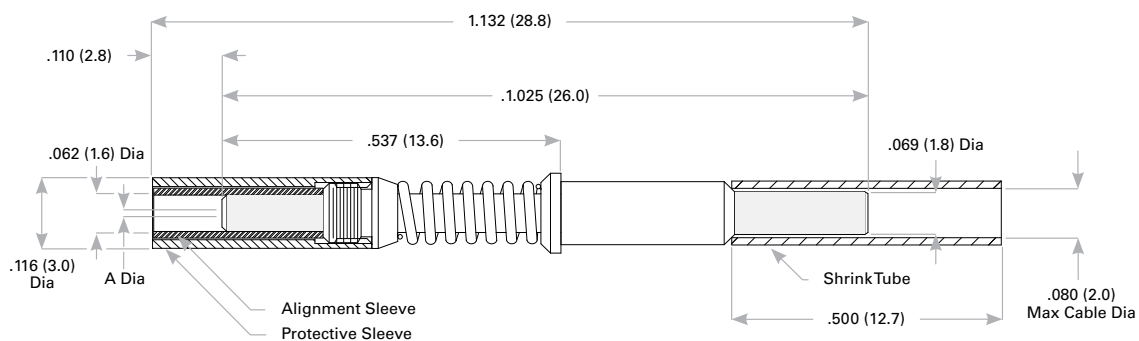


High-Performance Fiber Optic Contacts

Fiber optic termini are used in avionics, robotics, weapons systems, sensors, and other high-performance applications in which low data loss and reliable, repeatable performance is a necessity. These fiber optic termini can be used in any T9 insert that accommodates standard #16 power contacts.



Size 16 Fiber Optic Pin Contact



Size 16 Fiber Optic Socket Contact

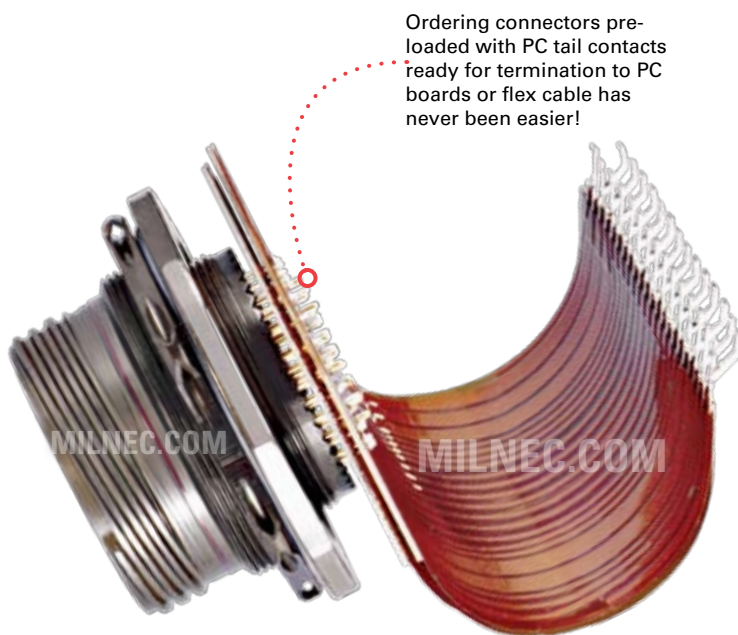
PC Tail Contacts

T9 Series • Advanced Military & Aerospace Connectors

Introduction to PC Tail Contacts

PC tail contacts are used exclusively for connectors that are mounted directly to printed circuit boards or flex cable by a specialized contact with a long termination “tail” that protrudes behind the connector body. PC tail contacts offer a number of design advantages by permitting the use of ruggedized connectors mounted to sophisticated electronics without the use of pigtails or bulky terminal blocks. Direct termination of contacts to PC boards also increases signal integrity and improves overall system reliability.

PC tail contacts differ from one another by the tail diameter and length. The tail length is the portion that extends beyond the main body of the contact and protrudes from the rear of the connector shell. In cases where the tail length extends beyond a design’s required minimum length, excess tail material can simply be trimmed with wire cutters after soldering and testing. Milnec also offers custom coax, twinax, or quadrx PC tail contacts to accommodate high-frequency contact requirements. ■

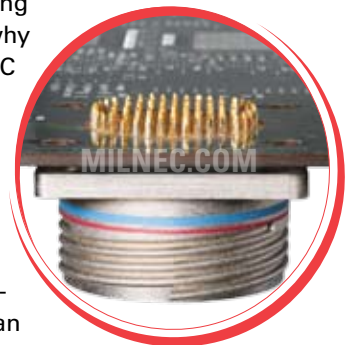


Jam Nuts for PC Tail Contact Applications

While PC tail contacts can be used in any shell style, we recommend the use of jam nut receptacles when using PC tail contacts for PC board applications. Jam nut receptacles are designed for rear mounting and enable simpler installation on the enclosure. Their single hole mounting design also reduces the number of environmentally susceptible openings that must be made, while the integrated O-ring maintains the environmental integrity of the enclosure. Protective covers are highly recommended to provide environmental and EMI/RFI protection when connectors are unmated. Socket contacts (which are recessed in the insert) are recommended for use as PC tail contacts in order to avoid accidental electrostatic discharge to contacts attached to sensitive electronics.

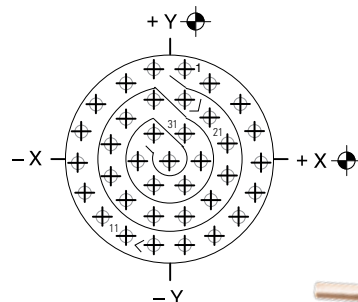
Custom PC Tail Lengths & Dimensions

We realize that every engineering application is different, that’s why we’re able to provide custom PC tail contacts to fit any design. Custom options include custom tail lengths, shoulder extensions, or even 90° angled configurations.



PC Tail Contact Placement Diagrams

Insert arrangement diagrams are available for the most popular inserts for PC tail contact applications. These diagrams provide precise hole locations for printed circuit board manufacturing via precision coordinates. Please contact your distributor for more information.



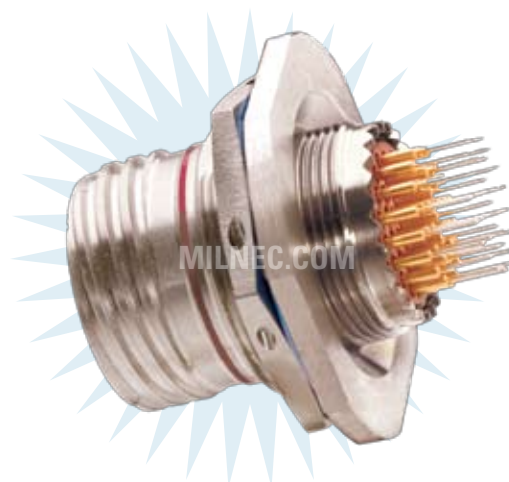
PC tail contacts may be ordered with custom shoulder extensions, tail lengths, diameters, and even custom angle configurations to meet your unique requirements.



T907 N 13-35 Y N - 02

- 1 **BASIC PART NUMBER**
T900 Wall mount receptacle
T907 Jam nut receptacle
- 2 **MATERIAL & FINISH**
N Aluminum, electroless nickel
W Aluminum, olive drab cadmium
K Stainless steel, passivated (firewall)
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
 See Insert Arrangement Selection table, p. F-19
 (Verify PC tail kit availability on table)
- 4 **CONTACT STYLE**
X PC tail pins
Y PC tail sockets
- 5 **ALTERNATE KEYING**
N NORMAL or A, B, C, D, E
- 6 **OPTIONAL ACCESSORY KIT** (OMIT FOR NONE)
02 Protective cover + mounting gasket
03 02 kit + mounting bracket + sealing screws

Note: See part builder (p. F-17) for additional finish options.



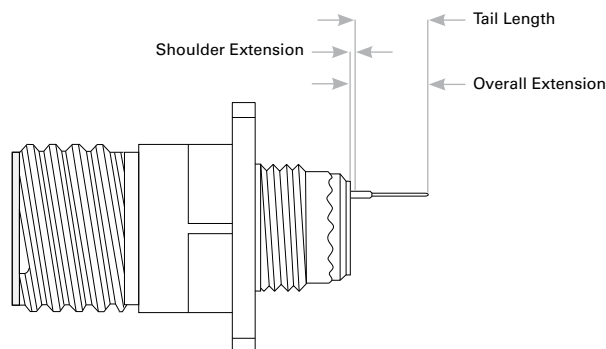
Order receptacles with PC tail contacts

PC tail contacts are used to mount ruggedized connectors directly to printed circuit boards or flex cable. To include PC tail contacts with your connector, simply select the X or Y option for contact style. Custom PC Tail contact angles and sizes are available by special order. Insert arrangement diagrams are available with precise hole locations for PCB manufacturing.

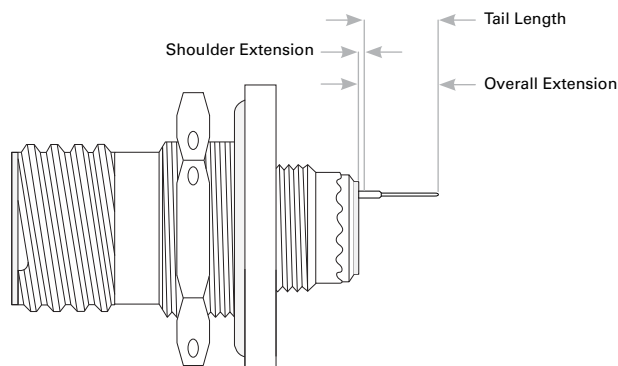
PC Tail Kitted Contacts

Contact Type	Part Number	Size	Tail Dia	Tail Length	T900 Shoulder Extension		T907 Shoulder Extension		T900 Overall Extension [±]		T907 Overall Extension [±]	
					Metal	Composite	Metal	Composite	Metal	Composite	Metal	Composite
Pin	T9PT22-001	#22D	.019 (.48)									
	T9PT20-002	#20	.025 (.63)									
	T9PT16-003	#16	.062 (1.57)	.236 (5.99)	.084 (2.13)	.083 (2.11)	.083 (2.11)	.050 (1.27)	.320 (8.13)	.319 (8.10)	.319 (8.10)	.286 (7.26)
	T9PT12-004	#12	.081 (2.06)									
Socket	T9ST22-005	#22D	.019 (.48)									
	T9ST20-006	#20	.025 (.63)									
	T9ST16-007	#16	.062 (1.57)	.236 (5.99)	.094 (2.39)	.097 (2.46)	.092 (2.34)	.050 (1.27)	.330 (8.38)	.333 (8.46)	.328 (8.33)	.286 (7.26)
	T9ST12-008	#12	.094 (2.39)									

For insertion and extraction tools, please see the Power Contacts, Sealing Plugs, & Tooling table, p. F-10.
 Dimensions are in inches (mm). [±] Overall extension ± 0.010 (0.3).



**T900 Wall Mount Receptacle
PC Tail Contact Extension**



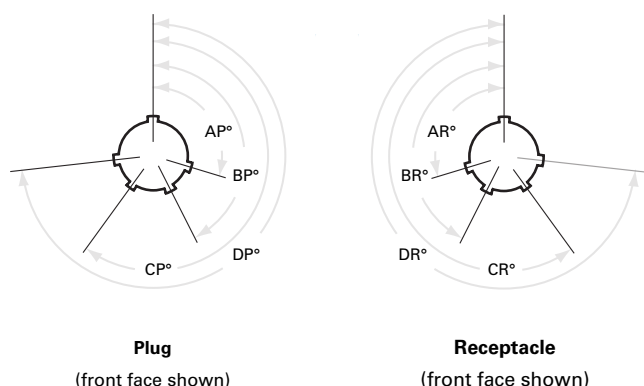
**T907 Jam Nut Receptacle
PC Tail Contact Extension**

Alternate Key Positions & Torque

T9 Series • Advanced Military & Aerospace Connectors

Alternate Key Positions

Alternate key positions should be used to avoid cross-mating of connectors with the same (or similar) insert pattern that are in close proximity to one another, such as on a high-density control panel. A plug with a given key position letter will only mate with a receptacle with the same letter. Inserts maintain a fixed position regardless of keying. For example, receptacle "N" will only mate with plug "N," and a second receptacle with an "A" keying will only mate with the "A" cable plug. In this manner, cross-mating of similar connectors by accident becomes impossible.



Master Key/Keyway Position

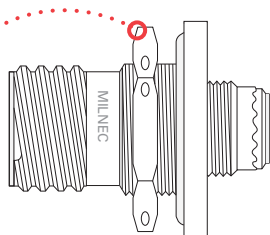
Shell Size	Keyway Arrangement	AR° or AP°	BR° or BP°	CR° or CP°	DR° or DP°
9	N	105°	140°	215°	265°
	A	102°	132°	248°	320°
	B	80°	118°	230°	312°
	C	35°	140°	205°	275°
	D	64°	155°	234°	304°
11	E	91°	131°	197°	240°
	N	95°	141°	208°	236°
	A	113°	156°	182°	292°
	B	90°	145°	195°	252°
	C	53°	156°	220°	255°
13	D	119°	146°	176°	298°
	E	51°	141°	184°	242°
	N	80°	142°	196°	293°
	A	135°	170°	200°	310°
	B	49°	169°	200°	244°
15	C	66°	140°	200°	257°
	D	62°	145°	180°	280°
	E	79°	153°	197°	272°
	N	80°	142°	196°	293°
	A	135°	170°	200°	310°
17	B	49°	169°	200°	244°
	C	66°	140°	200°	257°
	D	62°	145°	180°	280°
	E	79°	153°	197°	272°
	N	80°	142°	196°	293°
19	A	135°	170°	200°	310°
	B	49°	169°	200°	244°
	C	66°	140°	200°	257°
	D	62°	145°	180°	280°
	E	79°	153°	197°	272°
21	N	80°	142°	196°	293°
	A	135°	170°	200°	310°
	B	49°	169°	200°	244°
	C	66°	140°	200°	257°
	D	62°	145°	180°	280°
23	E	79°	153°	197°	272°
	N	80°	142°	196°	293°
	A	135°	170°	200°	310°
	B	49°	169°	200°	244°
	C	66°	140°	200°	257°
25	D	62°	145°	180°	280°
	E	79°	153°	197°	272°
	N	80°	142°	196°	293°
	A	135°	170°	200°	310°
	B	49°	169°	200°	244°

Accessory & Jam Nut Torque

Shell Size	Connector Accessory Metric Thread Dimension	Aluminum & Stainless Steel				Composite			
		Accessory Thread Torque		Jam Nut Torque		Accessory Thread Torque		Jam Nut Torque	
		Min	Max	Min	Max	Min	Max	Min	Max
9	M12 X 1-6g	70 (7.9)	75 (8.5)	30 (3.4)	36 (4.1)	30 (3.4)	36 (4.1)	30 (3.4)	36 (4.1)
11	M15 X 1-6g	80 (9.0)	85 (9.6)	40 (4.5)	46 (5.2)	40 (4.5)	46 (5.2)	40 (4.5)	46 (5.2)
13	M18 X 1-6g	100 (11.3)	110 (12.4)	55 (6.2)	60 (6.8)	55 (6.2)	60 (6.8)	55 (6.2)	60 (6.8)
15	M22 X 1-6g	140 (15.8)	150 (17.0)	70 (7.9)	75 (8.5)	70 (7.9)	75 (8.5)	70 (7.9)	75 (8.5)
17	M25 X 1-6g	160 (18.1)	170 (19.2)	80 (9.0)	85 (9.6)	80 (9.0)	85 (9.6)	80 (9.0)	85 (9.6)
19	M28 X 1-6g	210 (23.7)	230 (26.0)	90 (10.2)	95 (10.7)	90 (10.2)	95 (10.7)	90 (10.2)	95 (10.7)
21	M31 X 1-6g	260 (29.4)	280 (31.6)	100 (11.3)	110 (12.4)	100 (11.3)	110 (12.4)	100 (11.3)	110 (12.4)
23	M34 X 1-6g	280 (31.6)	300 (33.9)	110 (12.4)	120 (13.6)	110 (12.4)	120 (13.6)	110 (12.4)	120 (13.6)
25	M37 X 1-6g	300 (33.9)	325 (36.7)	120 (13.6)	130 (14.7)	120 (13.6)	130 (14.7)	120 (13.6)	130 (14.7)

Units are in inch pounds (Newton meters).

When working with composite jam nut connectors, special hex coupling wrenches are recommended to avoid damaging the jam nut. Contact an authorized distributor for suggested tooling and assembly instructions.



Cable Clamp Screw Torque

Screw Size	Min	Max
#2-56	1.5 (.2)	2.5 (.3)
#4-40	3.5 (.4)	4.5 (.5)
#6-32	5 (.6)	7 (.8)
#8-32	7 (.8)	9 (1.0)
#10-32	9 (1.0)	11 (1.2)
#.250-20	11 (1.2)	13 (1.5)

Units are in inch pounds (Newton meters).

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T9 Series Materials & Finishes

The material of a connector is the foundation of its protective ability, providing strength and durability. The finish (or plating) provides the foundation material with added corrosion resistance along with an aesthetic look. Each material and finish combination offers unique properties and should be selected according to your application requirements.

The T9 Series features stainless steel, composite, and aluminum as standard materials, with electroless nickel, and olive drab cadmium as finish options. In addition to the standard options, a wide variety of special materials and finishes is available, including space-grade approved materials and RoHS compliant finishes for eco-friendly designs. ■

Standard T9 Series Materials & Finishes

Finish Code	Finish	Hermetic Only	Electrically Conductive	RoHS Compliant	Appearance	Shell Material	Salt Spray Rating	Recommended Operating Temperature Range
W	Olive Drab Cadmium		✓		Drab Olive Green	Aluminum	500 hrs	-85° to +347°F (-65° to +175°C)
N	Electroless Nickel		✓+	✓	Bright Metal	Aluminum	48 hrs	-85° to +392°F (-65° to +200°C)
G	Electroless Nickel (Space-Grade) ‡		✓+	✓	Bright Metal	Aluminum	48 hrs	-85° to +392°F (-65° to +200°C)
K	Passivated (Firewall) †		✓	✓	Matte Metal	SST Steel	1,000 hrs	-85° to +392°F (-65° to +200°C)
KS	Electrodeposited Nickel (Firewall) †		✓+	✓	Bright Metal	SST Steel	500 hrs	-85° to +392°F (-65° to +200°C)
L	Electrodeposited Nickel		✓+	✓	Bright Metal	SST Steel	500 hrs	-85° to +392°F (-65° to +200°C)
J	Olive Drab Cadmium		✓		Drab Olive Green	Composite	2,000 hrs	-85° to +347°F (-65° to +175°C)
M	Electroless Nickel		✓+	✓	Matte Metal	Composite	2,000 hrs	-85° to +347°F (-65° to +175°C)
HA	Passivated	✓	✓	✓	Matte Metal	SST Steel	1,000 hrs	-85° to +392°F (-65° to +200°C)
HB	Electrodeposited Nickel	✓	✓+	✓	Bright Metal	SST Steel	48 hrs	-85° to +392°F (-65° to +200°C)

‡ Outgassed per NASA specifications ATSM E-595 and EEE-INST-002.

✓+ Indicates improved conductivity for shielding effectiveness.

† Connectors will be supplied with flame resistant inserts designed to protect bulkheads from the passage of a 2,000°F (1,093°C) flame for a minimum of 20 minutes.

Special T9 Series Materials & Finishes*

Finish Code	Finish	Hermetic Only	Electrically Conductive	RoHS Compliant	Appearance	Shell Material	Salt Spray Rating	Recommended Operating Temperature Range
B	Hardcoat Anodize			✓	Grey to Black	Aluminum	336 hrs	-85° to +347°F (-65° to +175°C)
C	Zinc Cobalt			✓	Black	Aluminum	125 hrs	-85° to +347°F (-65° to +175°C)
CC			✓	✓				
CB	Cadmium		✓	✓	Black	Aluminum	1,000 hrs	-85° to +347°F (-65° to +175°C)
T	Hard Anodic			✓	Grey Metal	Aluminum	500 hrs	-85° to +347°F (-65° to +175°C)
NP	Nickel Fluorocarbon Polymer		✓	✓	Grey Metal	Aluminum	1,000 hrs	-85° to +347°F (-65° to +175°C)
XA	Unplated Composite			✓	Light Brown	Composite	2,000 hrs	-85° to +347°F (-65° to +175°C)
XB	Unplated Composite			✓	Black	Composite	2,000 hrs	-85° to +347°F (-65° to +175°C)
AU	Gold (Space-Grade) ‡		✓+	✓	Gold	Aluminum	48 hrs	-85° to +392°F (-65° to +200°C)
MB	Marine Bronze		✓	✓	Yellow Metal	Bronze	1,000 hrs	-85° to +392°F (-65° to +200°C)
TY	Titanium		✓	✓	Gray Metal	Titanium	1,000 hrs	-67° to +392°F (-55° to +200°C)

* Please consult an authorized distributor for lead time information and minimum quantity requirements for special order finishes.

‡ Outgassed per NASA specifications ATSM E-595 and EEE-INST-002.

✓+ Indicates improved conductivity for shielding effectiveness.

About RoHS Finishes

The European Union's Restriction of Hazardous Substances (RoHS) 2002/95/EC Directive and its subsequent amendments restricts the incorporation of six hazardous materials in the manufacture of various types of electronic and electrical equipment. It is closely linked with the Waste Electrical and Electronic Equipment Directive (WEEE) 2002/96/EC, which sets collection, recycling, and recovery targets for electrical goods and equipment.



Milnec provides a full offering of RoHS compliant finishes in conductive and non-conductive versions to best suit your application requirements.

Please consult the latest European Union general and regional regulations to ensure materials are appropriate for your application and compliance requirements.

How to Build Your T9 Connector Part Number

A part number is comprised of a string of characters that represent the different elements of a connector. High-performance connectors are built to order from component form using a unique part number as a blueprint to specify particular characteristics. Each modifier of the part number represents a particular configuration.

Below is an example part number for a T9 Series connector that designates, 1) T9 Series wall mount receptacle, 2) electroless nickel finish over aluminum, 3) 15-35 insert arrangement, 4) pin contacts, 5) normal keying, 6) EMI/RFI environmental backshell (dash number indicates size, length, and cable range), and 7) integrated accessory kit. ■

T900 N 15-35 P N R2(025) - 03

1 2 3 4 5 6 7

1 Series Shell Style

Standard Environmental Shells

T906	Plug (self-locking), p. F-23
.....	
T900	Wall mount receptacle, p. F-24
T907	Jam nut receptacle, p. F-25
T901	Cable mount receptacle, p. F-26

For non-standard shell styles including hermetic and thru-bulkhead receptacles, please see specific datasheet for part numbering and kit options.

2 Material & Finish

Aluminum

N	Electroless nickel
G	Electroless nickel, space-grade
W	Olive drab cadmium

Stainless Steel

K	Passivated, firewall rated
L	Electrodeposited nickel

Composite

M	Electroless nickel
J	Olive drab cadmium

For complete material and finish options, including RoHS finishes, see p. F-16.

3 Shell Size & Insert Arrangement

See Insert Arrangement Selection table, p. F-19

4 Contact Style

Standard Power Contacts

P	Pin, p. F-10
S	Socket, p. F-10
A	Pin insert, supplied without contacts
B	Socket insert, supplied without contacts

High-Cycle Contacts

F	High-cycle pin contacts, p. F-10
G	High-cycle socket contacts, p. F-10

PC Tail Contacts

X	PC tail pin contacts, p. F-13
Y	PC tail socket contacts, p. F-13

Verify selected insert arrangement has PC Tail Kit option available, see p. F-19. For PC tail contact dimensions, see p. F-13.

5 Alternate Keying

Normal Keying

N Normal

Alternate Keying

A, B, C, D, E Alternate keying

6 Optional Backshell Kit (Omit for None)

Strain Relief Backshell (Self-Locking)

B2	Straight, p. F-33
B4	90°, p. F-33

EMI/RFI Environmental Backshell*

R2 ()	Straight, p. F-35
R3 ()	45°, p. F-39
R4 ()	90°, p. F-41

Supply specific Dash No. on referenced datasheet page for appropriate connector shell size.

Shrink Boot & Boot Adapter*

K2	Straight boot, p. F-43, & adapter, p. F-45
K4	90° boot, p. F-44, & adapter, p. F-45

K2 supplied with recommended boot in 100 material, p. F-43.
K4 supplied with recommended boot in 100 material, p. F-44.

Shrink Boot, EMI/RFI Banding Boot Adapter, & Band*

D2	Straight adapter, p. F-46, w/ boot & band
D4	90° adapter, p. F-46, w/ boot & band

Supplied with recommended straight boot in 100 material, p. F-43, and TB250 band, p. F-54.

* Backshell kits will be supplied with matching connector material, except stainless steel.

7 Optional Accessory Kit (Omit for None)

01 For Plugs:

Protective cover, p. F-47

02 For Receptacles:

Protective cover, p. F-47 +
Mounting gasket, p. F-49

03 For Receptacles:

Protective cover, p. F-47 +
Mounting gasket, p. F-49 +
Mounting bracket, p. F-50
with (4x) sealing screws

Kits with 02 & 03 accessory option will use R1 (outer) mounting hole positions.

Kits with EMI/RFI backshells will be supplied with T9GS RFI shielding gaskets.

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GET THE WHOLE KIT & CABOODLE

Advanced Connectors

Ruggedized and environmentally protected connectors that feature a wide variety of contacts, materials, and finishes for the ultimate in design flexibility.

EMI/RFI Backshells

For mission-critical applications, EMI/RFI environmental backshells offer total protection from environmental hazards and radiated interference.

Mounting Hardware

Securely mount and seal your connector with a mounting bracket, sealing gasket, and stainless steel sealing screws.

Protective Covers

Quickly match the correct cover with your custom connector to protect contacts and ensure a reliable environmental seal when it is not in use.

Contacts

Gold-plated contacts ensure superior signal and power fidelity and are included with every connector.



Order Matching Accessories—Every Time!

The search for matching connector accessories is over! Our simple part builders make it easy to build a complete connector kit with everything you need for mission-critical applications. Kits include protective covers, gaskets, mounting hardware, and a variety of backshells. Get complete protection with Milnec connector kits.

MILNEC
INTERCONNECT SYSTEMS

Insert Arrangements

T9 Series • Advanced Military & Aerospace Connectors

Selecting Your Insert Arrangement

Below is a chart that represents every available shell and insert arrangement within the series. To choose the proper insert arrangement, you must first distinguish your application requirements for contact size and quantity.

Each insert arrangement has a unique number to identify its size and contact arrangement. The first number is the shell size. The second number is the contact arrangement. It does not, however, always equal the total number of contacts.

Insert Arrangement Selection

Insert Arrangement	Military Shell Size	Total Contacts	Hermetic Available	PC Tail Kit Available	Service Rating	Contact Size						
						#22D	#20	#16	#12	#12 Coax ¹	#8 Coax ²	#8 Twinax ³
9-35	A	6	✓	✓	M	6						
9-94	A	2		✓	M		2					
9-98	A	3	✓	✓	I		3					
11-2	B	2	✓	✓	I			2				
11-5	B	5	✓	✓	I		5					
11-35	B	13	✓	✓	M	13						
11-54	B	4		✓	II	4						
11-98	B	6	✓	✓	I		6					
11-99	B	7	✓	✓	I		7					
13-4	C	4	✓	✓	I			4				
13-8	C	8	✓	✓	I		8					
13-13 ⁴	C	4		✓	I, Fiber			2	2			
13-35	C	22	✓	✓	M	22						
13-98	C	10	✓	✓	I		10					
15-4	D	4			I				4			
15-5	D	5	✓	✓	II			5				
15-15	D	15	✓		I		14	1				
15-18	D	18	✓	✓	I		18					
15-19	D	19	✓	✓	I		19					
15-35	D	37	✓	✓	M	37						
15-97	D	12	✓	✓	I		8	4				
17-2	E	39			M	38						1
17-6	E	6	✓	✓	I				6			
17-8	E	8	✓	✓	II			8				
17-22	E	4			Coax					2	2	
17-26	E	26	✓	✓	I		26					
17-35	E	55	✓	✓	M	55						
17-99	E	23	✓		I		21	2				
19-11	F	11	✓	✓	II			11				
19-18	F	18			M	14						4
19-28	F	28	✓	✓	I		26	2				
19-31	F	15			M	12			1		2	
19-32	F	32	✓	✓	I		32					
19-35	F	66	✓	✓	M	66						
21-11	G	11	✓	✓	I				11			
21-16	G	16	✓	✓	II			16				
21-29	G	27		✓	I		19	4	4			
21-35	G	79	✓	✓	M	79						
21-39	G	39	✓	✓	I		37	2				
21-41	G	41	✓	✓	I		41					
21-75	G	4			M							4

(Continued on next page)

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Insert Arrangement Selection (Continued from previous page)

Insert Arrangement	Military Shell Size	Total Contacts	Hermetic Available	PC Tail Kit Available	Service Rating	Contact Size						
						#22D	#20	#16	#12	#12 Coax ¹	#8 Coax ²	#8 Twinax ³
21-79	G	19			II	17					2	
23-6	H	6			M							6
23-14	H	14		✓	I				14			
23-21	H	21	✓	✓	II			21				
23-35	H	100	✓	✓	M	100						
23-53	H	53	✓	✓	I		53					
23-54	H	53		✓	M	40		9	4			
23-55	H	55	✓	✓	I		55					
25-4	J	56	✓	✓	I		48	8				
25-7	J	99			Twinax	97						2
25-8	J	8			Twinax							8
25-17	J	42			M	36						6
25-19	J	19	✓	✓	I				19			
25-20 ⁵	J	30			N		10	13		4		3
25-24	J	24	✓	✓	I			12	12			
25-29	J	29	✓	✓	I			29				
25-35	J	128	✓	✓	M	128						
25-41	J	41			N, Inst.	22	3	11		2		3
25-43	J	43	✓	✓	I		23	20				
25-46	J	46			I		40	4			2	
25-61	J	61	✓	✓	I		61					
25-90	J	46			I		40	4				2

¹ Includes the following #12 coax contacts: T9PX12-006 (pin) or T9SX12-007 (socket) contacts, see p. F-11 for more information.

² Includes the following #8 coax contacts: T9PX08-010 (pin) or T9SX08-011 (socket) contacts, see p. F-11 for more information.

³ Includes the following #8 twinax contacts: T9PW08-002 (pin) or T9SW08-003 (socket) contacts, see p. F-11 for more information.

⁴ 13-13 insert is designed to accept 2 of our standard size #16 fiber optic contacts in place of #16 power contacts, see p. F-12 for more information.

⁵ 25-20 insert is designed for MIL-STD-1760 applications and includes the following contacts:

2 x #12 coax contacts (matched impedance): T9PX12-006 (pin) or T9SX12-007 (socket) contacts

2 x #12 coax contacts (matched impedance): T9PX12-010 (pin) or T9SX12-011 (socket) contacts

3 x #8 twinax contacts: T9PW08-002 (pin) or T9SW08-003 (socket) contacts

HIGH-FREQUENCY CONTACTS FOR HIGH-SPEED TRANSMISSION

T900 wall mount with eight concentric twinax contacts for high-speed data transmission in a rugged connector.



Contacts for Advanced Applications

Milnec's high-frequency contacts are the ideal choice for advanced applications that require superior electrical performance along with shielding to protect from outside electrical interference.

- High-speed RF contacts
- Fiber optic contacts
- PC tail contacts



Insert Arrangement Drawings

T9 Series • Advanced Military & Aerospace Connectors

Arrangement

Service Rating

Number of Contacts



9-35

M

6 x #22D



9-94

M

2 x #20



9-98

I

3 x #20



11-2

I

2 x #16



11-5

I

5 x #20



11-35

M

13 x #22D



11-54

II

4 x #22D



11-98

I

6 x #20



11-99

I

7 x #20



13-4

I

4 x #16



13-8

I

8 x #20



13-13

I, Fiber Optic

2 x #16

2 x #12



13-35

M

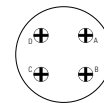
22 x #22D



13-98

I

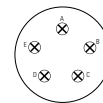
10 x #20



15-4

I

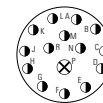
4 x #12



15-5

II

5 x #16

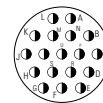


15-15

I

14 x #20

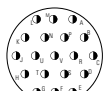
1 x #16



15-18

I

18 x #20



15-19

I

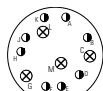
19 x #20



15-35

M

37 x #22D



15-97

I

8 x #20

4 x #16

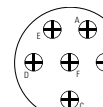


17-2

M

38 x #22D

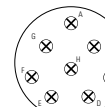
1 x #8 Twinax



17-6

I

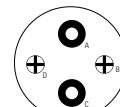
6 x #12



17-8

II

8 x #16

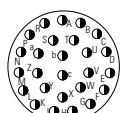


17-22

Coax

2 x #12 Coax

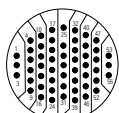
2 x #8 Coax



17-26

I

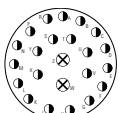
26 x #20



17-35

M

55 x #22D

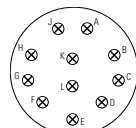


17-99

I

21 x #20

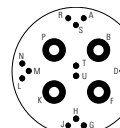
2 x #16



19-11

II

11 x #16

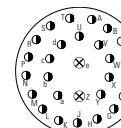


19-18

M

14 x #22D

4 x #8 Twinax

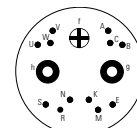


19-28

I

26 x #20

2 x #16



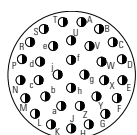
19-31

M

2 x #8 Coax

1 x #12

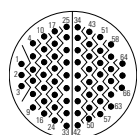
12 x #22D



19-32

I

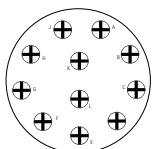
32 x #20



19-35

M

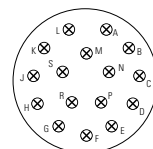
66 x #22D



21-11

I

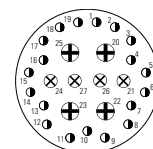
11 x #12



21-16

II

16 x #16

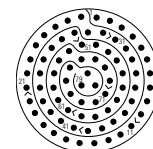


21-29

I

19 x #20

4 x #16, 4 x #12



21-35

M

79 x #22D

Arrangement

Service Rating

Number of Contacts

Contact Legend



8



10



12



#16



#20



#22D

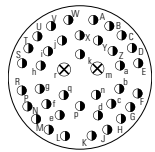
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Rev. 1302.1

Insert Arrangement Drawings

T9 Series • Advanced Military & Aerospace Connectors

(Continued from previous page)

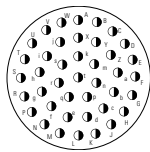


21-39

I

37 x #20

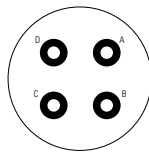
2 x #16



21-41

I

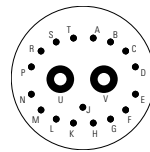
41 x #20



21-75

M

4 x #8 Twinax



21-79

II

17 x #22D

2 x #8 Coax

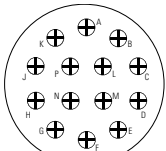


23-6

M

6 x #8 Twinax

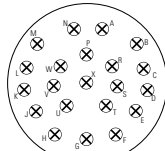
Arrangement
Service Rating
Number of Contacts



23-14

I

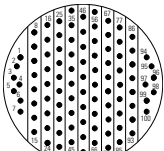
14 x #12



23-21

II

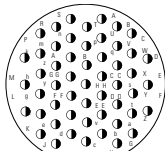
21 x #16



23-35

M

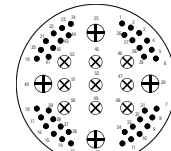
100 x #22D



23-53

I

53 x #20



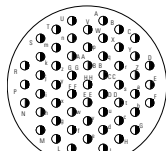
23-54

M

40 x #22D, 9 x #16

4 x #12

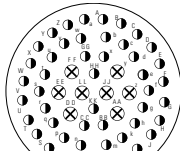
Arrangement
Service Rating
Number of Contacts



23-55

I

55 x #20

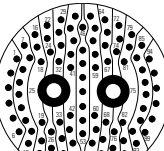


25-4

I

48 x #20

8 x #16

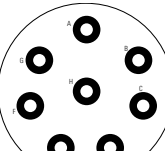


25-7

Twinax

97 x #22D

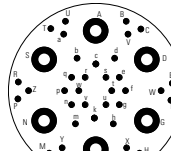
2 x #8 Twinax



25-8

Twinax

8 x #8 Twinax



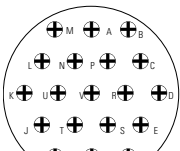
25-17

M

36 x #22D

6 x #8 Twinax

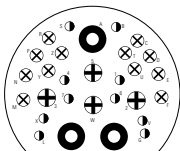
Arrangement
Service Rating
Number of Contacts



25-19

I

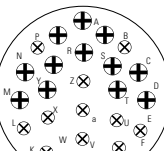
19 x #12



25-20

N

10 x #20, 13 x #16,
3 x #8 Twinax, 4 x #12 Coax

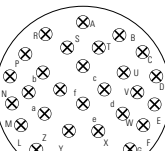


25-24

I

12 x #16

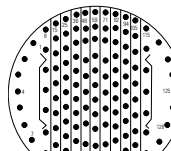
12 x #12



25-29

I

29 x #16



25-35

M

128 x #22D

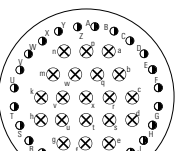
Arrangement
Service Rating
Number of Contacts



25-41

N/Inst.

22 x #22D, 3 x #20, 11 x #16
2 x #12 Coax, 3 x #8 Twinax



25-43

I

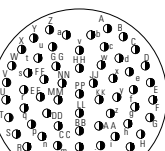
23 x #20
20 x #16



25-46

I

40 x #20; 4 x #16
2 x #8 Coax



25-61

I

61 x #20



25-90

I

40 x #20, 4 x #16
2 x #8 Twinax

Arrangement
Service Rating
Number of Contacts

Plug (Self-Locking)

T9 Series • Advanced Military & Aerospace Connectors



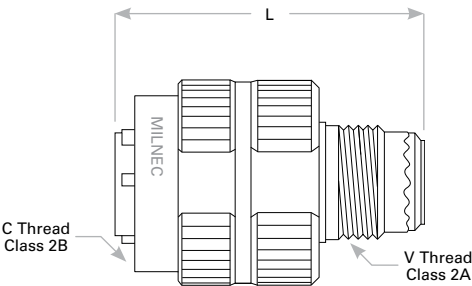
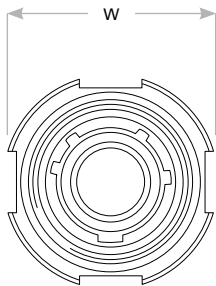
High-performance straight plug

This straight plug is the best option for mission-critical applications. It mates with a single 360° turn of the coupling ring. Self-locking teeth prevent disconnection in high-vibration environments. A strain relief backshell is required. A protective cover is recommended to protect the connector and contacts when it is not mated.

Plug Dimensions

Shell Size	Military Shell Size	W	C Thread Class 2B	L	V Thread Class 2A
9	A	.858 (21.8)	.6250- 0.1P-0.3L-TS-2B	1.234 (31.3)	M12X1-6g
11	B	.984 (25.0)	.7500- 0.1P-0.3L-TS-2B	1.234 (31.3)	M15X1-6g
13	C	1.157 (29.4)	.8750- 0.1P-0.3L-TS-2B	1.234 (31.3)	M18X1-6g
15	D	1.280 (32.5)	1.0000- 0.1P-0.3L-TS-2B	1.234 (31.3)	M22X1-6g
17	E	1.406 (35.7)	1.1875- 0.1P-0.3L-TS-2B	1.234 (31.3)	M25X1-6g
19	F	1.516 (38.5)	1.2500- 0.1P-0.3L-TS-2B	1.234 (31.3)	M28X1-6g
21	G	1.642 (41.7)	1.3750- 0.1P-0.3L-TS-2B	1.234 (31.3)	M31X1-6g
23	H	1.768 (44.9)	1.5000- 0.1P-0.3L-TS-2B	1.234 (31.3)	M34X1-6g
25	J	1.890 (48.0)	1.6250- 0.1P-0.3L-TS-2B	1.234 (31.3)	M37X1-6g

Dimensions are in inches (mm).



T906 N 13-35 P N - R2(015) - 01

- 1234567
- 1 BASIC PART NUMBER
T906 Plug (self-locking)
- 2 MATERIAL & FINISH
N Aluminum, electroless nickel
W Aluminum, olive drab cadmium
K Stainless steel, passivated (firewall)
- 3 SHELL SIZE & INSERT ARRANGEMENT
See Insert Arrangement Selection table, p. F-19
- 4 CONTACT STYLE
P Pin
S Socket
- 5 ALTERNATE KEYING
N NORMAL or A, B, C, D, E
- 6 OPTIONAL BACKSHELL KIT (OMIT FOR NONE)
B2 Straight strain relief (self-locking), p. F-33
R2() Straight EMI/RFI environmental, p. F-35
(Add dash number for appropriate shell size, see p. F-35)
K2 Boot adapter, p. F-45, & straight shrink boot, p. F-43
- 7 OPTIONAL ACCESSORY KIT (OMIT FOR NONE)
01 Protective cover

Note: See part builder (p. F-17) for additional kit options.

Wall Mount Receptacle

T9 Series • Advanced Military & Aerospace Connectors

T900 N 13-35 S N - R2(015) - 03

- 1 **BASIC PART NUMBER**
T900 Wall mount receptacle
- 2 **MATERIAL & FINISH**
N Aluminum, electroless nickel
W Aluminum, olive drab cadmium
K Stainless steel, passivated (firewall)
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. F-19
- 4 **CONTACT STYLE**
P Pin
S Socket
- 5 **ALTERNATE KEYING**
N NORMAL or A, B, C, D, E
- 6 **OPTIONAL BACKSHELL KIT** (OMIT FOR NONE)
B2 Straight strain relief (self-locking), p. F-33
R2() Straight EMI/RFI environmental, p. F-35
(Add dash number for appropriate shell size, see p. F-35)
K2 Boot adapter, p. F-45, & straight shrink boot, p. F-43
- 7 **OPTIONAL ACCESSORY KIT** (OMIT FOR NONE)
02 Protective cover + mounting gasket
03 02 kit + mounting bracket + sealing screws



Receptacle with flange for panel mounting

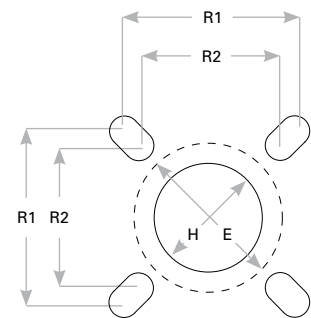
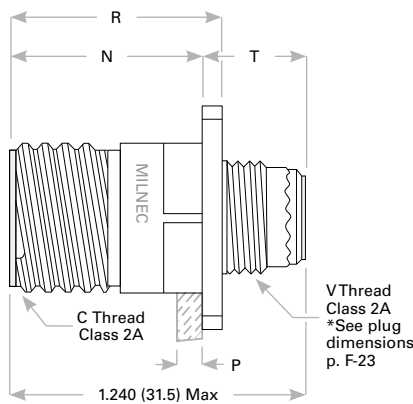
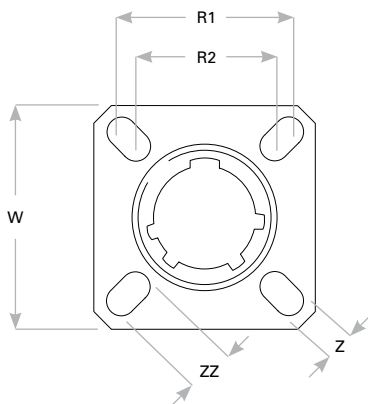
The wall mount receptacle features a four-hole flange for easy mounting to the front or rear of a panel. Accessory threads on the back of the receptacle accept protective backshells. A cover is recommended to protect the contacts when the receptacle is not in use.

Note: See part builder (p. F-17) for additional kit options.

Receptacle Dimensions

Shell Size	Military Shell Size	W	ZZ	Z	R	N	T	C Thread Class 2A	P Max Rear Panel†	R1	R2	H Front Mount	E Rear Mount
9	A	.948 (24.1)	.216 (5.5)	.128 (3.3)	.905 (23.0)	.820 (20.8)	.469 (11.9)	.6250-0.1P-0.3L-TS	.234 (5.9)	.719 (18.3)	.594 (15.1)	.516 (13.1)	.656 (16.7)
11	B	1.043 (26.5)	.194 (4.9)	.128 (3.3)	.905 (23.0)	.820 (20.8)	.469 (11.9)	.7500-0.1P-0.3L-TS	.234 (5.9)	.812 (20.6)	.719 (18.3)	.625 (15.9)	.796 (20.2)
13	C	1.137 (28.9)	.194 (4.9)	.128 (3.3)	.905 (23.0)	.820 (20.8)	.469 (11.9)	.8750-0.1P-0.3L-TS	.234 (5.9)	.906 (23.0)	.812 (20.6)	.750 (19.1)	.922 (23.4)
15	D	1.232 (31.3)	.173 (4.3)	.128 (3.3)	.905 (23.0)	.820 (20.8)	.469 (11.9)	1.0000-0.1P-0.3L-TS	.234 (5.9)	.969 (24.6)	.906 (23.0)	.906 (23.0)	1.047 (26.6)
17	E	1.323 (33.6)	.194 (4.9)	.128 (3.3)	.905 (23.0)	.820 (20.8)	.469 (11.9)	1.1875-0.1P-0.3L-TS	.234 (5.9)	1.062 (27.0)	.969 (24.6)	1.016 (25.8)	1.219 (31.0)
19	F	1.449 (36.8)	.194 (4.9)	.128 (3.3)	.905 (23.0)	.820 (20.8)	.469 (11.9)	1.2500-0.1P-0.3L-TS	.234 (5.9)	1.156 (29.4)	1.062 (27.0)	1.141 (29.0)	1.297 (32.9)
21	G	1.575 (40.0)	.194 (4.9)	.128 (3.3)	.905 (23.0)	.790 (20.1)	.500 (12.7)	1.3750-0.1P-0.3L-TS	.234 (5.9)	1.250 (31.8)	1.156 (29.4)	1.266 (32.2)	1.422 (36.1)
23	H	1.701 (43.2)	.242 (6.1)	.154 (3.9)	.905 (23.0)	.790 (20.1)	.500 (12.7)	1.5000-0.1P-0.3L-TS	.234 (5.9)	1.375 (34.9)	1.250 (31.8)	1.375 (34.9)	1.547 (39.3)
25	J	1.823 (46.3)	.242 (6.1)	.154 (3.9)	.905 (23.0)	.790 (20.1)	.500 (12.7)	1.6250-0.1P-0.3L-TS	.234 (5.9)	1.500 (38.1)	1.375 (34.9)	1.484 (37.7)	1.672 (42.5)

Dimensions are in inches (mm). † Max panel thickness applies only to rear mount applications to ensure proper coupling clearance.



Panel Cutout

Kits with 03 accessory option will use R1 mounting hole positions.

Rev. 1302.1

Jam Nut Receptacle

T9 Series • Advanced Military & Aerospace Connectors



Jam nut with integrated O-ring

The jam nut receptacle's single-hole mounting design and integrated O-ring maintain the environmental integrity of your enclosure. Rear accessory threads accept protective backshells. A cover is recommended to protect contacts when the receptacle is not in use.

T907 N 13-35 S N - R2(015) - 02

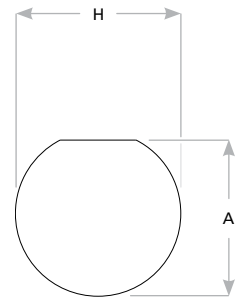
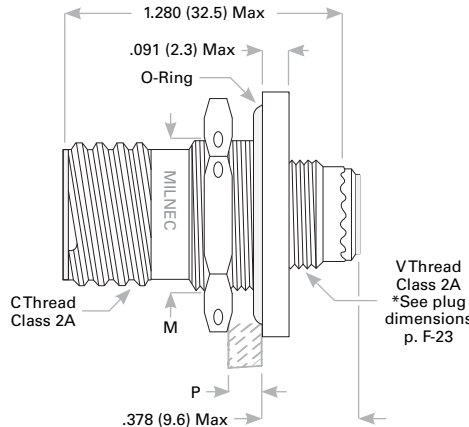
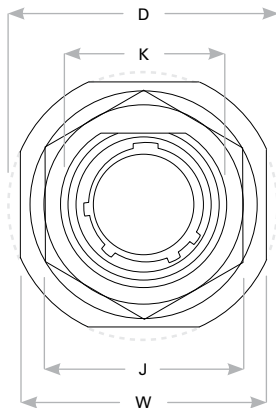
- 1 BASIC PART NUMBER
T907 Jam nut receptacle
- 2 MATERIAL & FINISH
N Aluminum, electroless nickel
W Aluminum, olive drab cadmium
K Stainless steel, passivated (firewall)
- 3 SHELL SIZE & INSERT ARRANGEMENT
See Insert Arrangement Selection table, p. F-19
- 4 CONTACT STYLE
P Pin
S Socket
- 5 ALTERNATE KEYING
N NORMAL or A, B, C, D, E
- 6 OPTIONAL BACKSHELL KIT (OMIT FOR NONE)
B2 Straight strain relief (self-locking), p. F-33
R2() Straight EMI/RFI environmental, p. F-35
(Add dash number for appropriate shell size, see p. F-35)
K2 Boot adapter, p. F-45, & straight shrink boot, p. F-43
- 7 OPTIONAL ACCESSORY KIT (OMIT FOR NONE)
02 Protective cover

Note: See part builder (p. F-17) for additional kit options.

Receptacle Dimensions

Shell Size	Military Shell Size	W	D	K	J	C Thread Class 2A	M	P Max Rear Panel†	H	A
9	A	1.062 (27.0)	1.199 (30.5)	.697 (17.7)	.875 (22.2)	.6250-0.1P-0.3L-TS	.669 (17.0)	.125 (3.2)	.700 (17.8)	.670 (17.0)
11	B	1.250 (31.8)	1.386 (35.2)	.822 (20.9)	1.000 (25.4)	.7500-0.1P-0.3L-TS	.769 (19.5)	.125 (3.2)	.825 (21.0)	.771 (19.6)
13	C	1.375 (34.9)	1.511 (38.4)	1.007 (25.6)	1.188 (30.2)	.8750-0.1P-0.3L-TS	.955 (24.3)	.125 (3.2)	1.010 (25.7)	.955 (24.3)
15	D	1.500 (38.1)	1.636 (41.6)	1.134 (28.8)	1.312 (33.3)	1.0000-0.1P-0.3L-TS	1.084 (27.5)	.125 (3.2)	1.135 (28.8)	1.085 (27.6)
17	E	1.625 (41.3)	1.761 (44.7)	1.259 (32.0)	1.438 (39.5)	1.1875-0.1P-0.3L-TS	1.208 (30.7)	.125 (3.2)	1.260 (32.0)	1.210 (30.7)
19	F	1.812 (46.0)	1.949 (49.5)	1.384 (35.2)	1.562 (39.7)	1.2500-0.1P-0.3L-TS	1.333 (33.9)	.125 (3.2)	1.385 (35.2)	1.335 (33.9)
21	G	1.938 (49.2)	2.073 (52.7)	1.507 (38.3)	1.688 (42.9)	1.3750-0.1P-0.3L-TS	1.459 (37.1)	.125 (3.2)	1.510 (38.4)	1.460 (37.1)
23	H	2.062 (52.4)	2.199 (55.9)	1.634 (41.5)	1.812 (46.0)	1.5000-0.1P-0.3L-TS	1.575 (40.0)	.125 (3.2)	1.635 (41.5)	1.585 (40.3)
25	J	2.188 (55.6)	2.323 (59.0)	1.759 (44.7)	2.000 (50.8)	1.6250-0.1P-0.3L-TS	1.709 (43.4)	.125 (3.2)	1.760 (44.7)	1.710 (43.4)

Dimensions are in inches (mm). † Max panel thickness will ensure proper coupling clearance.



Panel Cutout

Rev. 1302.1

T901 N 13-35 S N - R2(015) - 02

- 1 **BASIC PART NUMBER**
T901 Cable mount receptacle
- 2 **MATERIAL & FINISH**
N Aluminum, electroless nickel
W Aluminum, olive drab
K Stainless steel, passivated (firewall)
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. F-19
- 4 **CONTACT STYLE**
P Pin
S Socket
- 5 **ALTERNATE KEYING**
N NORMAL or A, B, C, D, E
- 6 **OPTIONAL BACKSHELL KIT (OMIT FOR NONE)**
B2 Straight strain relief (self-locking), p. F-33
R2() Straight EMI/RFI environmental, p. F-35
(Add dash number for appropriate shell size, see p. F-35)
K2 Boot adapter, p. F-45, & straight shrink boot, p. F-43
- 7 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
02 Protective cover



Receptacle for extension cord applications

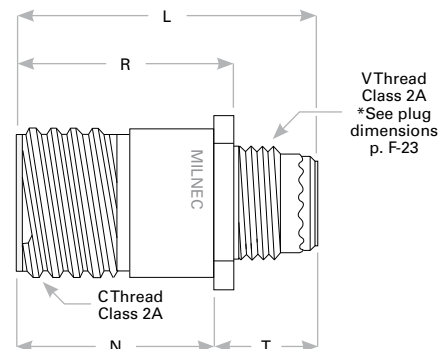
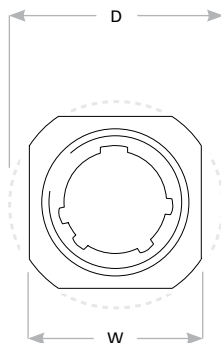
A cable mount receptacle is ideal for extension cord applications. A flange protects the connector from damage when dragged or dropped. A backshell is required for strain relief, and a protective cover is recommended to protect contacts from damage when the receptacle is not in use.

Note: See part builder (p. F-17) for additional kit options.

Receptacle Dimensions

Shell Size	Military Shell Size	W	D	L	R	N	T	C Thread Class 2A
9	A	.675 (17.1)	.812 (20.6)	1.240 (31.5)	.905 (23.0)	.820 (20.8)	.469 (11.9)	.6250-0.1P-0.3L-TS-2A
11	B	.800 (20.3)	.905 (23.0)	1.240 (31.5)	.905 (23.0)	.820 (20.8)	.469 (11.9)	.7500-0.1P-0.3L-TS-2A
13	C	.925 (23.5)	1.093 (27.8)	1.240 (31.5)	.905 (23.0)	.820 (20.8)	.469 (11.9)	.8750-0.1P-0.3L-TS-2A
15	D	1.050 (26.7)	1.219 (31.0)	1.240 (31.5)	.905 (23.0)	.820 (20.8)	.469 (11.9)	1.0000-0.1P-0.3L-TS-2A
17	E	1.238 (31.4)	1.375 (34.9)	1.240 (31.5)	.905 (23.0)	.820 (20.8)	.469 (11.9)	1.1875-0.1P-0.3L-TS-2A
19	F	1.300 (33.0)	1.469 (37.3)	1.240 (31.5)	.905 (23.0)	.820 (20.8)	.469 (11.9)	1.2500-0.1P-0.3L-TS-2A
21	G	1.425 (36.2)	1.625 (41.3)	1.240 (31.5)	.905 (23.0)	.790 (20.1)	.500 (12.7)	1.3750-0.1P-0.3L-TS-2A
23	H	1.550 (39.4)	1.750 (44.5)	1.240 (31.5)	.905 (23.0)	.790 (20.1)	.500 (12.7)	1.5000-0.1P-0.3L-TS-2A
25	J	1.675 (42.5)	1.875 (47.6)	1.240 (31.5)	.905 (23.0)	.790 (20.1)	.500 (12.7)	1.6250-0.1P-0.3L-TS-2A

Dimensions are in inches (mm).



Box Mount Receptacle (Hermetic)

T9 Series • Advanced Military & Aerospace Connectors



Low-profile hermetic receptacle

T9 hermetic receptacles are made from stainless steel and glass-fused inserts to create an airtight seal. The hermetic box mount receptacle features a low-profile design that does not permit the use of backshells, making it ideal for confined spaces. A gasket and a mounting bracket with sealing screws are recommended for a reliable hermetic seal.

T912 HA 9-98 P N - 03

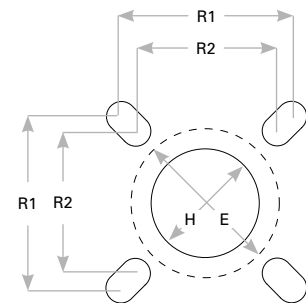
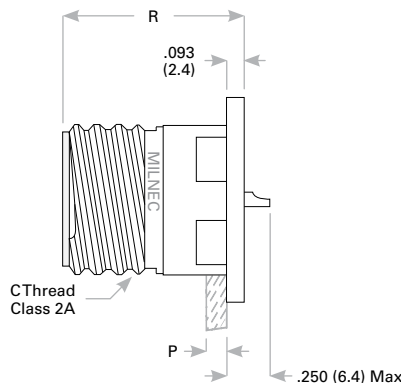
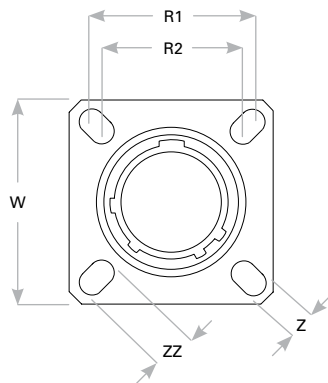
- 1 **BASIC PART NUMBER**
T912 Hermetic box mount receptacle
Helium leakage < 1.0 x10⁻⁶ cc³/sec at 15 psi (1.1 kg/cm²). Insert rated to 14,000 psi (984 kg/cm²) when precision welded or soldered.
- 2 **MATERIAL & FINISH**
HA Stainless steel, passivated
HB Stainless steel, electrodeposited nickel
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. F-19
(Verify hermetic availability on table)
- 4 **CONTACT STYLE**
P Pin only, gold plated
H* Socket, gold plated
(PC tail contacts available, contact your authorized distributor)
- 5 **ALTERNATE KEYING**
N NORMAL or A, B, C, D, E
- 6 **OPTIONAL ACCESSORY KIT** (OMIT FOR NONE)
02 Protective cover + mounting gasket
03 02 kit + mounting bracket + sealing screws

* Please consult an authorized distributor for lead time and minimum quantity requirements.

Receptacle Dimensions

Shell Size	Military Shell Size	W	ZZ	Z	R	C Thread Class 2A	P Max Rear Panel†	R1	R2	H Front Mount	E Rear Mount
9	A	.938 (23.8)	.216 (5.5)	.128 (3.3)	.913 (23.2)	.6250-0.1P-0.3L-TS	.234 (5.9)	.719 (18.3)	.594 (15.1)	.510 (13.0)	.650 (16.5)
11	B	1.031 (26.2)	.194 (4.9)	.128 (3.3)	.913 (23.2)	.7500-0.1P-0.3L-TS	.234 (5.9)	.812 (20.6)	.719 (18.3)	.620 (15.7)	.800 (20.3)
13	C	1.125 (28.6)	.194 (4.9)	.128 (3.3)	.913 (23.2)	.8750-0.1P-0.3L-TS	.234 (5.9)	.906 (23.0)	.812 (20.6)	.740 (18.8)	.910 (23.1)
15	D	1.219 (31.0)	.173 (4.3)	.128 (3.3)	.913 (23.2)	1.0000-0.1P-0.3L-TS	.234 (5.9)	.969 (24.6)	.906 (23.0)	.900 (22.9)	1.040 (26.4)
17	E	1.312 (33.3)	.194 (4.9)	.128 (3.3)	.913 (23.2)	1.1875-0.1P-0.3L-TS	.234 (5.9)	1.062 (27.0)	.969 (24.6)	1.010 (25.7)	1.210 (30.7)
19	F	1.438 (36.5)	.194 (4.9)	.128 (3.3)	.913 (23.2)	1.2500-0.1P-0.3L-TS	.234 (5.9)	1.156 (29.4)	1.062 (27.0)	1.130 (28.7)	1.280 (32.5)
21	G	1.562 (39.7)	.194 (4.9)	.128 (3.3)	.913 (23.2)	1.3750-0.1P-0.3L-TS	.234 (5.9)	1.250 (31.8)	1.156 (29.4)	1.250 (31.8)	1.410 (35.8)
23	H	1.688 (42.9)	.242 (6.1)	.154 (3.9)	.913 (23.2)	1.5000-0.1P-0.3L-TS	.234 (5.9)	1.375 (34.9)	1.250 (31.8)	1.360 (34.5)	1.530 (38.9)
25	J	1.812 (46.0)	.242 (6.1)	.154 (3.9)	.913 (23.2)	1.6250-0.1P-0.3L-TS	.234 (5.9)	1.500 (38.1)	1.375 (34.9)	1.470 (37.3)	1.660 (42.2)

Dimensions are in inches (mm). † Max panel thickness applies only to rear mount applications to ensure proper coupling clearance.



Panel Cutout

Kits with 03 accessory option will use R1 mounting hole positions.

Rev. 1302.1

T913 HA 13-4 P N - 02

1 2 3 4 5 6

1 BASIC PART NUMBER

T913 Hermetic jam nut receptacle
Helium leakage < 1.0×10^{-6} cc³/sec at
15 psi (1.1 kg/cm²). Insert rated to 14,000 psi
(984 kg/cm²) when precision welded or soldered.

2 MATERIAL & FINISH

HA Stainless steel, passivated
HB Stainless steel, electrodeposited nickel

3 SHELL SIZE & INSERT ARRANGEMENT

See Insert Arrangement Selection table, p. F-19
(Verify hermetic availability on table)

4 CONTACT STYLE

P Pin only, gold plated
H* Socket, gold plated
(PC tail contacts available, contact your authorized distributor)

5 ALTERNATE KEYING

N NORMAL or A, B, C, D, E

6 OPTIONAL ACCESSORY KIT (OMIT FOR NONE)

02 Protective cover

* Please consult an authorized distributor for lead time and minimum quantity requirements.



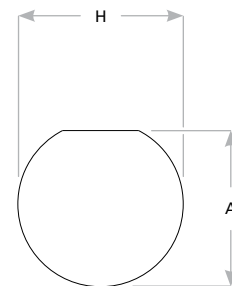
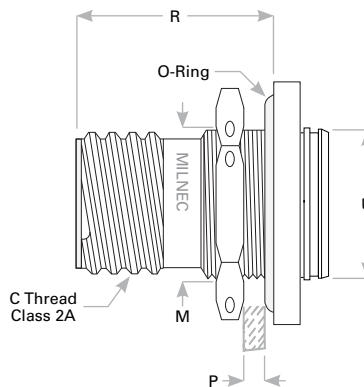
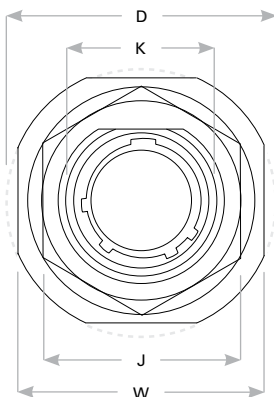
Preferred receptacle for hermetics

Jam nut receptacles are preferred for hermetic applications because of the single mounting hole design and the integrated O-ring that seals the mounting location. A protective cover is recommended when the connector is not in use. The low-profile rear design does not permit the use of a backshell.

Receptacle Dimensions

Shell Size	Military Shell Size	W	D	K	J	R	M	U	C Thread Class 2A	P Max Rear Panel*	H	A
9	A	1.062 (27.0)	1.199 (30.5)	.697 (17.7)	.875 (22.2)	.871 (22.1)	.669 (17.0)	.642 (16.3)	.6250-0.1P-0.3L-TS	.125 (3.2)	.700 (17.8)	.670 (17.0)
11	B	1.250 (31.8)	1.386 (35.2)	.822 (20.9)	1.000 (25.4)	.871 (22.1)	.769 (19.5)	.766 (19.5)	.7500-0.1P-0.3L-TS	.125 (3.2)	.825 (21.0)	.771 (19.6)
13	C	1.375 (34.9)	1.511 (38.4)	1.007 (25.6)	1.188 (30.2)	.878 (22.3)	.955 (24.3)	.892 (22.7)	.8750-0.1P-0.3L-TS	.125 (3.2)	1.010 (25.7)	.955 (24.3)
15	D	1.500 (38.1)	1.636 (41.6)	1.134 (28.8)	1.312 (33.3)	.878 (22.3)	1.084 (27.5)	1.018 (25.9)	1.0000-0.1P-0.3L-TS	.125 (3.2)	1.135 (28.8)	1.085 (27.6)
17	E	1.625 (41.3)	1.761 (44.7)	1.259 (32.0)	1.438 (36.5)	.878 (22.3)	1.208 (30.7)	1.142 (29.0)	1.1875-0.1P-0.3L-TS	.125 (3.2)	1.260 (32.0)	1.210 (30.7)
19	F	1.182 (30.0)	1.949 (49.5)	1.384 (35.2)	1.562 (39.7)	.878 (22.3)	1.333 (33.9)	1.268 (32.2)	1.2500-0.1P-0.3L-TS	.125 (3.2)	1.385 (35.2)	1.335 (33.9)
21	G	1.938 (49.2)	2.073 (52.7)	1.507 (38.3)	1.688 (42.9)	.878 (22.3)	1.459 (37.1)	1.392 (35.4)	1.3750-0.1P-0.3L-TS	.125 (3.2)	1.510 (38.4)	1.460 (37.1)
23	H	2.062 (52.4)	2.199 (55.9)	1.634 (41.5)	1.812 (46.0)	.878 (22.3)	1.575 (40.0)	1.518 (38.6)	1.5000-0.1P-0.3L-TS	.125 (3.2)	1.635 (41.5)	1.585 (40.3)
25	J	2.188 (55.6)	2.323 (59.0)	1.759 (44.7)	2.000 (50.8)	.878 (22.3)	1.709 (43.4)	1.642 (41.7)	1.6250-0.1P-0.3L-TS	.125 (3.2)	1.760 (44.7)	1.710 (43.4)

Dimensions are in inches (mm). * Max panel thickness will ensure proper coupling clearance.



Panel Cutout

Solder Mount Receptacle (Hermetic)

T9 Series • Advanced Military & Aerospace Connectors



Smallest receptacle for sensors or probes
The hermetic solder mount receptacle is designed to have the smallest mounting footprint available. The reduced flange is useful when soldering in high densities to a panel or mounting to compact probes or sensors. The low-profile rear design does not permit the use of a backshell.

T919 HA 11-99 P N - 02

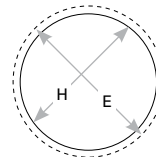
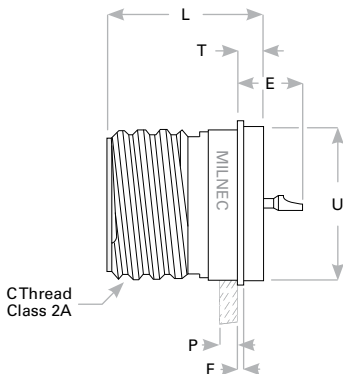
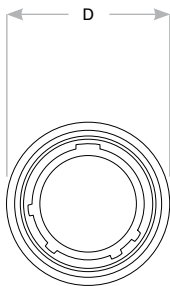
- BASIC PART NUMBER**
T919 Hermetic solder mount receptacle
Helium leakage < 1.0 x10⁻⁶ cc³/sec at 15 psi (1.1 kg/cm²). Insert rated to 14,000 psi (984 kg/cm²) when precision welded or soldered.
- MATERIAL & FINISH**
HA Stainless steel, passivated
HB Stainless steel, electrodeposited nickel
- SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. F-19
(Verify hermetic availability on table)
- CONTACT STYLE**
P Pin only, gold plated
H* Socket, gold plated
(PC tail contacts available, contact your authorized distributor)
- ALTERNATE KEYING**
N NORMAL or A, B, C, D, E
- OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
02 Protective cover

* Please consult an authorized distributor for lead time and minimum quantity requirements.

Receptacle Dimensions

Shell Size	Military Shell Size	D	C Thread Class 2A	L	F	T	E	U	P Max Rear Panel†	H Front Mount	E Rear Mount
9	A	.750 (19.1)	.6250-0.1P-0.3L-TS	.806 (20.5)	.031 (0.8)	.125 (3.2)	.375 (9.5)	.672 (17.1)	.234 (5.9)	.702 (17.8)	.650 (16.5)
11	B	.844 (21.4)	.7500-0.1P-0.3L-TS	.806 (20.5)	.031 (0.8)	.125 (3.2)	.375 (9.5)	.781 (19.8)	.234 (5.9)	.811 (20.6)	.800 (20.3)
13	C	.969 (24.6)	.8750-0.1P-0.3L-TS	.806 (20.5)	.031 (0.8)	.125 (3.2)	.375 (9.5)	.906 (23.0)	.234 (5.9)	.936 (23.8)	.910 (23.1)
15	D	1.094 (27.8)	1.0000-0.1P-0.3L-TS	.806 (20.5)	.031 (0.8)	.125 (3.2)	.375 (9.5)	1.031 (26.2)	.234 (5.9)	1.061 (27.0)	1.040 (26.4)
17	E	1.218 (30.9)	1.1875-0.1P-0.3L-TS	.806 (20.5)	.031 (0.8)	.125 (3.2)	.375 (9.5)	1.156 (29.4)	.234 (5.9)	1.186 (30.1)	1.210 (30.7)
19	F	1.312 (33.3)	1.2500-0.1P-0.3L-TS	.806 (20.5)	.031 (0.8)	.125 (3.2)	.375 (9.5)	1.250 (31.8)	.234 (5.9)	1.280 (32.5)	1.280 (32.5)
21	G	1.438 (36.5)	1.3750-0.1P-0.3L-TS	.806 (20.5)	.031 (0.8)	.125 (3.2)	.375 (9.5)	1.375 (34.9)	.234 (5.9)	1.405 (35.7)	1.410 (35.8)
23	H	1.563 (39.7)	1.5000-0.1P-0.3L-TS	.838 (21.3)	.031 (0.8)	.156 (4.0)	.375 (9.5)	1.500 (38.1)	.234 (5.9)	1.530 (38.9)	1.530 (38.9)
25	J	1.688 (42.9)	1.6250-0.1P-0.3L-TS	.838 (21.3)	.031 (0.8)	.156 (4.0)	.375 (9.5)	1.625 (41.3)	.234 (5.9)	1.655 (42.0)	1.660 (42.2)

Dimensions are in inches (mm). † Max panel thickness applies only to rear mount applications to ensure proper coupling clearance.



Panel Cutout

Rev. 1302.1

T9AS N 23-35 P N - 02

- 1 **BASIC PART NUMBER**
T9AS Connector saver
- 2 **MATERIAL & FINISH**
N Aluminum, electroless nickel
W Aluminum, olive drab
K Stainless steel, passivated (firewall)
- 3 **SHELL SIZE & INSERT ARRANGEMNT**
See Insert Arrangement Selection table, p. F-19
- 4 **CONTACT STYLE**
P Pins on plug side (sockets on recept. side)
S Sockets on plug side (pins on recept. side)
- 5 **ALTERNATE KEYING**
N NORMAL or A, B, C, D, E
- 6 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
02 Protective covers (2x)

Note: See part builder (p. F-17) for additional kit options.



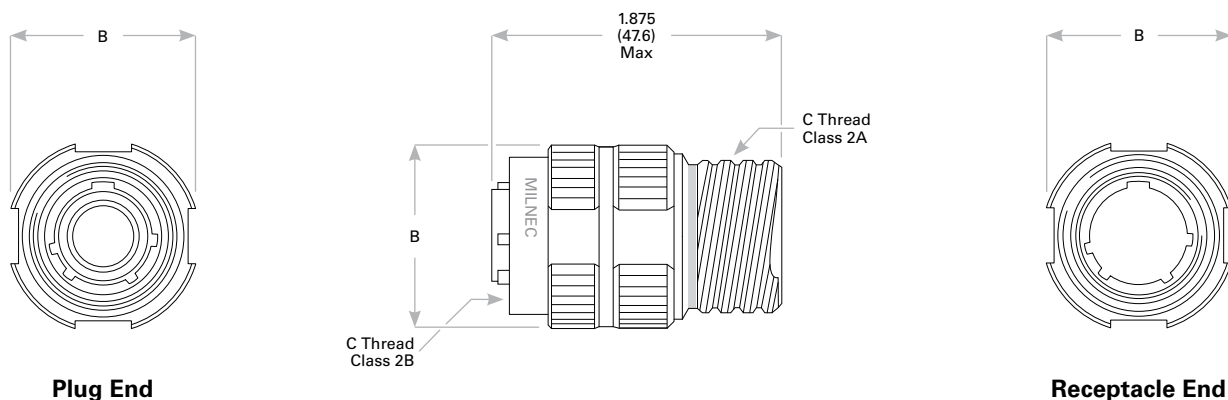
Protect connectors from coupling abuse

Connector savers are designed to protect connectors that are subject to repeated mating and unmating cycles during manufacturing, check-out phases, and environmental testing. Connector savers prevent costly repair or replacement of expensive connectors while preserving the quality and integrity of the connector by absorbing connect and disconnect abuse.

Connector Saver Dimensions

Shell Size	Military Shell Size	C Thread Class 2A/B	B
9	A	.6250-0.1P-0.3L-TS-2	.859 (21.8)
11	B	.7500-0.1P-0.3L-TS-2	.969 (24.6)
13	C	.8750-0.1P-0.3L-TS-2	1.141 (29.0)
15	D	1.0000-0.1P-0.3L-TS-2	1.266 (32.2)
17	E	1.1875-0.1P-0.3L-TS-2	1.391 (35.3)
19	F	1.2500-0.1P-0.3L-TS-2	1.500 (38.1)
21	G	1.3750-0.1P-0.3L-TS-2	1.625 (41.3)
23	H	1.5000-0.1P-0.3L-TS-2	1.750 (44.5)
25	J	1.6250-0.1P-0.3L-TS-2	1.875 (47.6)

Dimensions are in inches (mm).



Thru-Bulkhead Receptacle

T9 Series • Advanced Military & Aerospace Connectors



Receptacle for bulkhead feed-thru

This connector has receptacles on both sides of the shell, allowing cable plugs to connect from each side. The pins and sockets can be arranged on either side to meet your design requirements. The four-hole flange enables easy mounting to the front or rear of a panel. A mounting bracket and gasket are recommended.

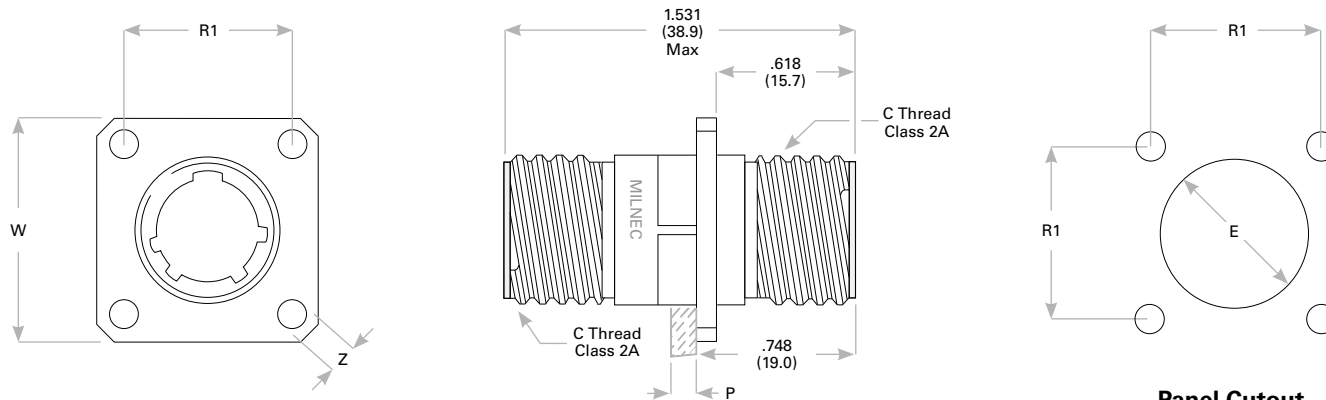
T922 N 15-35 S 1 N - 03

- 1 **BASIC PART NUMBER**
T922 Thru-bulkhead receptacle
- 2 **MATERIAL & FINISH**
N Aluminum, electroless nickel
W Aluminum, olive drab cadmium
K Stainless steel, passivated (firewall)
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. F-19
- 4 **CONTACT STYLE**
P Pins on flange side, sockets opposite
S Sockets on flange side, pins opposite
- 5 **PANEL RANGE**
1 .063 (1.6) Min — .125 (3.2) Max
2 .063 (1.6) Min — .250 (6.4) Max
3 .063 (1.6) Min — .500 (12.7) Max
- 6 **ALTERNATE KEYING**
N NORMAL or A, B, C, D, E
- 7 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
02 Protective cover (2x) + mounting gasket
03 02 kit + mounting bracket + sealing screws

Receptacle Dimensions

Shell Size	Military Shell Size	C Thread Class 2A	W	Z	R1	E Feed-Thru Mount	P Max Rear Panel†
9	A	.6250-0.1 P-0.3L-2A	.938 (23.8)	.128 (3.3)	.719 (18.3)	.656 (16.7)	See Option 5 for Panel Range
11	B	.7500-0.1 P-0.3L-2A	1.031 (26.2)	.128 (3.3)	.812 (20.6)	.796 (20.2)	
13	C	.8750-0.1 P-0.3L-2A	1.125 (28.6)	.128 (3.3)	.906 (23.0)	.922 (23.4)	
15	D	1.0000-0.1 P-0.3L-2A	1.219 (31.0)	.128 (3.3)	.969 (24.6)	1.047 (26.6)	
17	E	1.1875-0.1 P-0.3L-2A	1.312 (33.3)	.128 (3.3)	1.062 (27.0)	1.219 (31.0)	
19	F	1.2500-0.1 P-0.3L-2A	1.438 (36.5)	.128 (3.3)	1.156 (29.4)	1.297 (32.9)	
21	G	1.3750-0.1 P-0.3L-2A	1.562 (39.7)	.128 (3.3)	1.250 (31.8)	1.422 (36.1)	
23	H	1.5000-0.1 P-0.3L-2A	1.688 (42.9)	.156 (4.0)	1.375 (34.9)	1.547 (39.3)	
25	J	1.6250-0.1 P-0.3L-2A	1.812 (46.0)	.156 (4.0)	1.500 (38.1)	1.672 (42.5)	

Dimensions are in inches (mm). † Max panel thickness will ensure proper coupling clearance.



Panel Cutout

Kits with 03 accessory option will use R1 mounting hole positions.

Rev. 1302.1

T927 HA 13-98 P 1 N - 02



Hermetic bulkhead feed-thru

Jam nut receptacles are preferred for hermetic applications because of the single mounting hole design and the integrated O-ring that seals the mounting location. Dual receptacle ends enable bulkhead feed-thru of cables. Protective covers are recommended when the connector is not in use.

1 BASIC PART NUMBER

T927 Hermetic jam nut thru-bulkhead receptacle
Helium leakage < 1.0×10^{-6} cc³/sec at
15 psi (1.1 kg/cm²). Insert rated to 14,000 psi
(984 kg/cm²) when precision welded or soldered.

2 MATERIAL & FINISH

HA Stainless steel, passivated
HB Stainless steel, electrodeposited nickel

3 SHELL SIZE & INSERT ARRANGEMENT

See Insert Arrangement Selection table, p. F-19

4 CONTACT STYLE

P Pins on jam nut side, sockets opposite
S Sockets on jam nut side, pins opposite

5 PANEL RANGE

1 .063 (1.6) Min — .125 (3.2) Max
2 .063 (1.6) Min — .250 (6.4) Max
3 .063 (1.6) Min — .500 (12.7) Max

6 ALTERNATE KEYING

N NORMAL or A, B, C, D, E

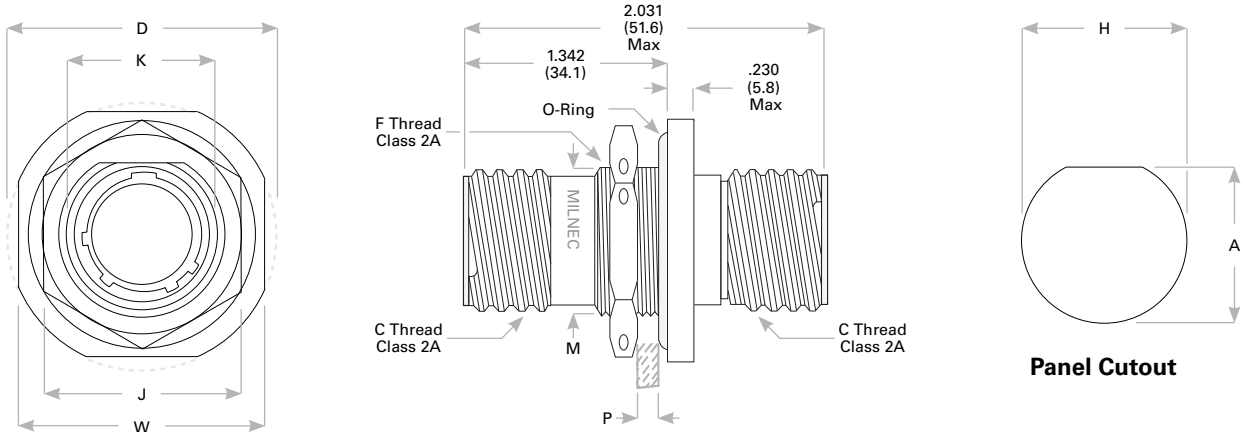
7 OPTIONAL ACCESSORY KIT (OMIT FOR NONE)

02 Protective cover (2x)

Receptacle Dimensions

Shell Size	Military Shell Size	C Thread Class 2A	J	W	D	K	F Thread Class 2A	H	A	P Max Panel*
9	A	.6250-0.1P-0.3L-TS	.875 (22.2)	1.090 (27.7)	1.199 (30.5)	.697 (17.7)	.6875-24 UNEF	.700 (17.8)	.670 (17.0)	See Option 5 for Panel Range
11	B	.7500-0.1P-0.3L-TS	1.000 (25.4)	1.280 (32.5)	1.386 (35.2)	.822 (20.9)	.8125-20 UNEF	.825 (21.0)	.771 (19.6)	
13	C	.8750-0.1P-0.3L-TS	1.250 (31.8)	1.400 (35.6)	1.511 (38.4)	1.007 (25.6)	1.000-20 UNEF	1.010 (25.7)	.955 (24.3)	
15	D	1.0000-0.1P-0.3L-TS	1.375 (34.9)	1.530 (38.9)	1.636 (41.6)	1.134 (28.8)	1.125-18 UNEF	1.135 (28.8)	1.085 (27.6)	
17	E	1.1875-0.1P-0.3L-TS	1.500 (38.1)	1.660 (42.2)	1.761 (44.7)	1.259 (32.0)	1.250-18 UNEF	1.260 (32.0)	1.210 (30.7)	
19	F	1.2500-0.1P-0.3L-TS	1.625 (41.3)	1.840 (46.7)	1.949 (49.5)	1.384 (35.2)	1.375-18 UNEF	1.385 (35.2)	1.335 (33.9)	
21	G	1.3750-0.1P-0.3L-TS	1.750 (44.5)	1.970 (50.5)	2.073 (52.7)	1.507 (38.3)	1.500-18 UNEF	1.510 (38.4)	1.460 (37.1)	
23	H	1.5000-0.1P-0.3L-TS	1.875 (47.6)	2.090 (53.1)	2.199 (55.9)	1.634 (41.5)	1.625-18 UNEF	1.635 (41.5)	1.585 (40.3)	
25	J	1.6250-0.1P-0.3L-TS	2.000 (50.8)	2.210 (56.1)	2.323 (59.0)	1.759 (44.7)	1.750-18 UNS	1.760 (44.7)	1.710 (43.4)	

Dimensions are in inches (mm). * Max panel thickness will ensure proper coupling clearance.



Strain Relief Backshells

T9 Series • Advanced Military & Aerospace Connectors



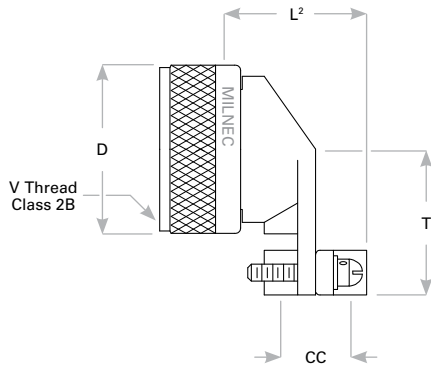
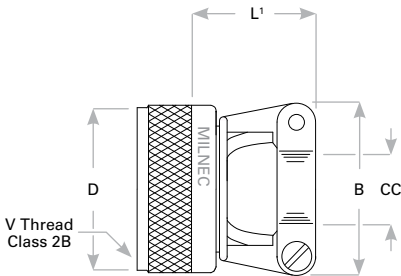
Protect connectors from cable tension

This basic backshell protects contacts by providing strain relief from the cable or wire bundle. The self-locking option is recommended for high-vibration applications. Strain relief backshells should only be used in clean, dry applications. For complete protection, upgrade to an EMI/RFI environmental backshell or shrink boot.

Strain Relief Dimensions

Shell Size	Military Shell Size	D	L ¹	L ²	T	B	V Thread Class 2B	CC Cable Clearance	
								Min	Max
9	A	.858 (21.8)	.910 (23.1)	1.200 (30.5)	1.000 (25.4)	.850 (21.6)	M12 X 1-6H	.098 (2.5)	.234 (5.9)
11	B	.984 (25.0)	.910 (23.1)	1.200 (30.5)	1.100 (27.9)	.900 (22.9)	M15 X 1-6H	.153 (3.9)	.234 (5.9)
13	C	1.157 (29.4)	1.010 (25.7)	1.400 (35.6)	1.100 (27.9)	1.100 (27.9)	M18 X 1-6H	.190 (4.8)	.328 (8.3)
15	D	1.279 (32.5)	1.060 (26.9)	1.450 (36.8)	1.250 (31.8)	1.150 (29.2)	M22 X 1-6H	.260 (6.6)	.457 (11.6)
17	E	1.406 (35.7)	1.160 (29.5)	1.600 (40.6)	1.300 (33.0)	1.300 (33.0)	M25 X 1-6H	.283 (7.2)	.614 (15.6)
19	F	1.516 (38.5)	1.410 (35.8)	1.700 (43.2)	1.350 (34.3)	1.500 (38.1)	M28 X 1-6H	.325 (8.3)	.634 (16.1)
21	G	1.642 (41.7)	1.510 (38.4)	1.850 (47.0)	1.600 (40.6)	1.600 (40.6)	M31 X 1-6H	.343 (8.7)	.698 (17.7)
23	H	1.768 (44.9)	1.660 (42.2)	1.950 (49.5)	1.750 (44.5)	1.700 (43.2)	M34 X 1-6H	.381 (9.7)	.823 (20.9)
25	J	1.889 (48.0)	1.760 (44.7)	2.100 (53.3)	1.850 (47.0)	1.800 (45.7)	M37 X 1-6H	.418 (10.6)	.853 (21.7)

Dimensions are in inches (mm).



T9B2 - S - 15 N

- 1 BASIC PART NUMBER
T9B2 Straight strain relief backshell
T9B4 90° strain relief backshell
- 2 COUPLING STYLE
N Non-self-locking coupling
S Self-locking coupling
- 3 SHELL SIZE
See Strain Relief Dimensions table below
- 4 MATERIAL & FINISH
N Aluminum, electroless nickel
W Aluminum, olive drab cadmium
K Stainless steel, passivated
M Composite, electroless nickel (self-locking only)
J Composite, olive drab cadmium (self-locking only)

Note: See part builder (p. F-17) for additional kit options.

T9C2 - 15 M

1 2 3

1 BASIC PART NUMBER

T9C2 Straight EMI/RFI env. backshell (self-locking)

T9C4 90° EMI/RFI env. backshell (self-locking)

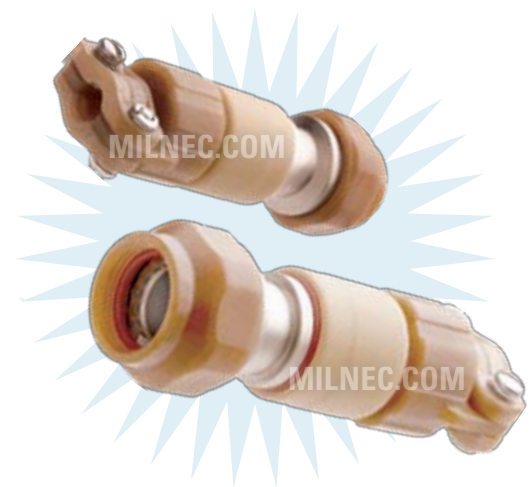
2 SHELL SIZE

See Backshell Dimensions table below

3 MATERIAL & FINISH

M Composite, electroless nickel

J Composite, olive drab cadmium



Note: See part builder (p. F-17) for additional kit options.



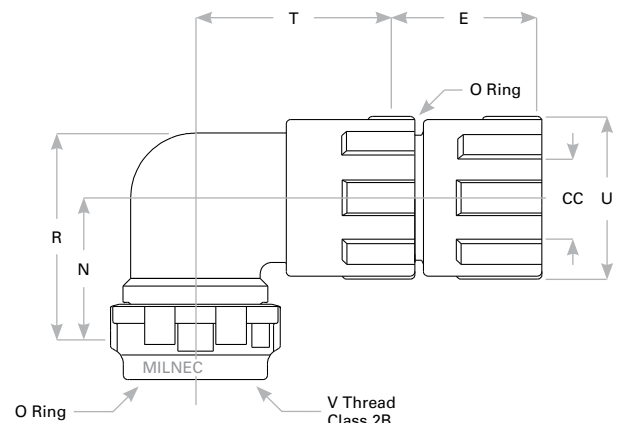
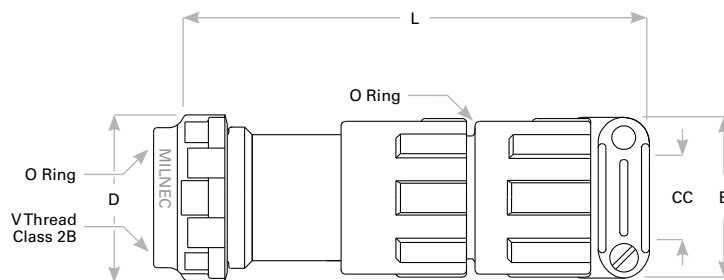
Complete backshell protection in composite

Composite backshells offer the same protection as metal backshells while also providing a significant savings in design weight. The backshells feature strain relief cable clamps, environmental sealing rated to IP67, and 360° shield termination hardware. They provide complete EMI/RFI and environmental protection for all mission-critical designs.

Backshell Dimensions

Shell Size	Military Shell Size	V Thread Class 2B	L	D	B	R	N	T	E	U	CC Cable Clearance	
											Min	Max
9	A	M12 X 1-6H	2.500 (63.5)	.86 (21.8)	.940 (23.9)	.880 (22.4)	.690 (17.5)	1.060 (26.9)	.750 (19.1)	.800 (20.3)	.130 (3.3)	.250 (6.4)
11	B	M15 X 1-6H	2.500 (63.5)	.99 (25.1)	1.170 (29.7)	1.000 (25.4)	.750 (19.1)	1.130 (28.7)	.750 (19.1)	.930 (23.6)	.250 (6.4)	.380 (9.7)
13	C	M18 X 1-6H	2.500 (63.5)	1.16 (29.5)	1.280 (32.5)	1.130 (28.7)	.810 (20.6)	1.190 (30.2)	.750 (19.1)	1.060 (26.9)	.310 (7.9)	.440 (11.2)
15	D	M22 X 1-6H	2.500 (63.5)	1.28 (32.5)	1.410 (35.8)	1.310 (33.3)	.880 (22.4)	1.250 (31.8)	.750 (19.1)	1.220 (31.0)	.500 (12.7)	.630 (15.9)
17	E	M25 X 1-6H	2.500 (63.5)	1.41 (35.8)	1.500 (38.1)	1.380 (35.1)	.940 (23.9)	1.310 (33.3)	.750 (19.1)	1.240 (31.5)	.560 (14.2)	.690 (17.5)
19	F	M28 X 1-6H	2.500 (63.5)	1.52 (38.6)	1.560 (39.6)	1.440 (36.6)	.970 (24.6)	1.340 (34.0)	.750 (19.1)	1.370 (34.8)	.630 (16.0)	.750 (19.1)
21	H	M31 X 1-6H	2.500 (63.5)	1.64 (41.7)	1.690 (42.9)	1.630 (41.4)	1.060 (26.9)	1.440 (36.6)	.750 (19.1)	1.490 (37.8)	.750 (19.1)	.880 (22.2)
23	G	M34 X 1-6H	2.500 (63.5)	1.77 (45.0)	1.810 (46.0)	1.750 (44.5)	1.130 (28.7)	1.500 (38.1)	.750 (19.1)	1.620 (41.1)	.880 (22.4)	1.000 (25.4)
25	J	M37 X 1-6H	2.500 (63.5)	1.89 (48.0)	1.910 (48.5)	1.880 (47.8)	1.190 (30.2)	1.560 (39.6)	.750 (19.1)	1.680 (42.7)	1.000 (25.4)	1.130 (28.6)

Dimensions are in inches (mm).



Rev. 1302.1

Straight EMI/RFI Env. Backshell

T9 Series • Advanced Military & Aerospace Connectors



T9R2 - 035 N

- 1 BASIC PART NUMBER
- 2 DASH NO.
- 3 MATERIAL & FINISH

T9R2 Straight EMI/RFI environmental backshell

See Backshell Dimensions table below

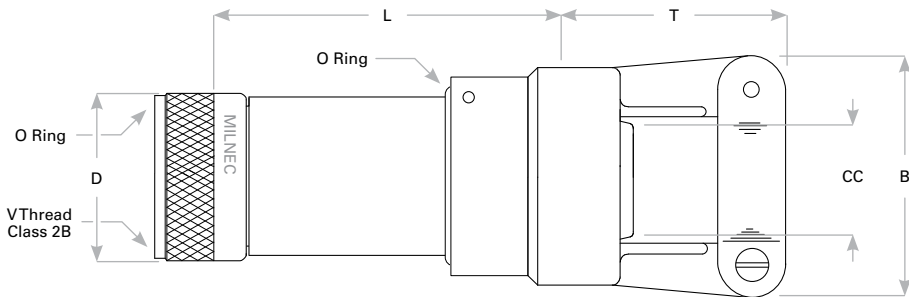
- N Aluminum, electroless nickel
- W Aluminum, olive drab cadmium
- K* Stainless steel, passivated
- L* Stainless steel, electrodeposited nickel

* Please consult an authorized distributor for lead time and minimum quantity requirements.

Note: See part builder (p. F-17) for additional kit options.

Ultimate environmental & EMI/RFI protection

This backshell is the best choice for all applications that demand the ultimate in environmental protection from water, dirt, dust, and moisture, as well as protection from EMI/RFI interference. For proper sealing, please order the clamp size best suited to fit your outside cable diameter.



Backshell Dimensions

Dash No.	Shell Size	Military Shell Size	V Thread Class 2B	D	T	B	L	CC Cable Clearance	
								Min	Max
001	9	A	M12 X 1-6H	.750 (19.1)	1.250 (31.8)	.781 (19.8)	1.500 (38.1)	.062 (1.6)	.125 (3.2)
002	9	A	M12 X 1-6H	.750 (19.1)	1.250 (31.8)	.781 (19.8)	2.500 (63.5)	.062 (1.6)	.125 (3.2)
003	9	A	M12 X 1-6H	.750 (19.1)	1.250 (31.8)	.969 (24.6)	1.500 (38.1)	.125 (3.2)	.250 (6.4)
004	9	A	M12 X 1-6H	.750 (19.1)	1.250 (31.8)	.969 (24.6)	2.500 (63.5)	.125 (3.2)	.250 (6.4)
005	11	B	M15 X 1-6H	.850 (21.6)	1.250 (31.8)	.781 (19.8)	1.500 (38.1)	.062 (1.6)	.125 (3.2)
006	11	B	M15 X 1-6H	.850 (21.6)	1.250 (31.8)	.781 (19.8)	2.500 (63.5)	.062 (1.6)	.125 (3.2)
007	11	B	M15 X 1-6H	.850 (21.6)	1.250 (31.8)	.969 (24.6)	1.500 (38.1)	.125 (3.2)	.250 (6.4)
008	11	B	M15 X 1-6H	.850 (21.6)	1.250 (31.8)	.969 (24.6)	2.500 (63.5)	.125 (3.2)	.250 (6.4)
009	11	B	M15 X 1-6H	.850 (21.6)	1.250 (31.8)	1.062 (27.0)	1.500 (38.1)	.250 (6.4)	.375 (9.5)
010	11	B	M15 X 1-6H	.850 (21.6)	1.250 (31.8)	1.062 (27.0)	2.500 (63.5)	.250 (6.4)	.375 (9.5)

Dimensions are in inches (mm).

(Continued on next page)

Rev. 1302.1

Backshell Dimensions (Continued from previous page)

Dash No.	Shell Size	Military Shell Size	V Thread Class 2B	D	T	B	L	CC Cable Clearance	
								Min	Max
011	13	C	M18 X 1-6H	1.000 (25.4)	1.250 (31.8)	.969 (24.6)	1.500 (38.1)	.125 (3.2)	.250 (6.4)
012	13	C	M18 X 1-6H	1.000 (25.4)	1.250 (31.8)	.969 (24.6)	2.500 (63.5)	.125 (3.2)	.250 (6.4)
013	13	C	M18 X 1-6H	1.000 (25.4)	1.250 (31.8)	1.062 (27.0)	1.500 (38.1)	.250 (6.4)	.375 (9.5)
014	13	C	M18 X 1-6H	1.000 (25.4)	1.250 (31.8)	1.062 (27.0)	2.500 (63.5)	.250 (6.4)	.375 (9.5)
015	13	C	M18 X 1-6H	1.000 (25.4)	1.250 (31.8)	1.156 (29.4)	1.500 (38.1)	.375 (9.5)	.500 (12.7)
016	13	C	M18 X 1-6H	1.000 (25.4)	1.250 (31.8)	1.156 (29.4)	2.500 (63.5)	.375 (9.5)	.500 (12.7)
017	15	D	M22 X 1-6H	1.150 (29.2)	1.250 (31.8)	.969 (24.6)	1.500 (38.1)	.125 (3.2)	.250 (6.4)
018	15	D	M22 X 1-6H	1.150 (29.2)	1.250 (31.8)	.969 (24.6)	2.500 (63.5)	.125 (3.2)	.250 (6.4)
019	15	D	M22 X 1-6H	1.150 (29.2)	1.250 (31.8)	.969 (24.6)	3.500 (88.9)	.125 (3.2)	.250 (6.4)
020	15	D	M22 X 1-6H	1.150 (29.2)	1.250 (31.8)	1.062 (27.0)	1.500 (38.1)	.250 (6.4)	.375 (9.5)
021	15	D	M22 X 1-6H	1.150 (29.2)	1.250 (31.8)	1.062 (27.0)	2.500 (63.5)	.250 (6.4)	.375 (9.5)
022	15	D	M22 X 1-6H	1.150 (29.2)	1.250 (31.8)	1.062 (27.0)	3.500 (88.9)	.250 (6.4)	.375 (9.5)
023	15	D	M22 X 1-6H	1.150 (29.2)	1.250 (31.8)	1.156 (29.4)	1.500 (38.1)	.375 (9.5)	.500 (12.7)
024	15	D	M22 X 1-6H	1.150 (29.2)	1.250 (31.8)	1.156 (29.4)	2.500 (63.5)	.375 (9.5)	.500 (12.7)
025	15	D	M22 X 1-6H	1.150 (29.2)	1.250 (31.8)	1.156 (29.4)	3.500 (88.9)	.375 (9.5)	.500 (12.7)
026	15	D	M22 X 1-6H	1.150 (29.2)	1.312 (33.3)	1.250 (31.8)	1.500 (38.1)	.500 (12.7)	.625 (15.9)
027	15	D	M22 X 1-6H	1.150 (29.2)	1.312 (33.3)	1.250 (31.8)	2.500 (63.5)	.500 (12.7)	.625 (15.9)
028	15	D	M22 X 1-6H	1.150 (29.2)	1.312 (33.3)	1.250 (31.8)	3.500 (88.9)	.500 (12.7)	.625 (15.9)
029	17	E	M25 X 1-6H	1.250 (31.8)	1.250 (31.8)	.969 (24.6)	1.500 (38.1)	.125 (3.2)	.250 (6.4)
030	17	E	M25 X 1-6H	1.250 (31.8)	1.250 (31.8)	.969 (24.6)	2.500 (63.5)	.125 (3.2)	.250 (6.4)
031	17	E	M25 X 1-6H	1.250 (31.8)	1.250 (31.8)	.969 (24.6)	3.500 (88.9)	.125 (3.2)	.250 (6.4)
032	17	E	M25 X 1-6H	1.250 (31.8)	1.250 (31.8)	1.062 (27.0)	1.500 (38.1)	.250 (6.4)	.375 (9.5)
033	17	E	M25 X 1-6H	1.250 (31.8)	1.250 (31.8)	1.062 (27.0)	2.500 (63.5)	.250 (6.4)	.375 (9.5)
034	17	E	M25 X 1-6H	1.250 (31.8)	1.250 (31.8)	1.062 (27.0)	3.500 (88.9)	.250 (6.4)	.375 (9.5)
035	17	E	M25 X 1-6H	1.250 (31.8)	1.250 (31.8)	1.156 (29.4)	1.500 (38.1)	.375 (9.5)	.500 (12.7)
036	17	E	M25 X 1-6H	1.250 (31.8)	1.250 (31.8)	1.156 (29.4)	2.500 (63.5)	.375 (9.5)	.500 (12.7)
037	17	E	M25 X 1-6H	1.250 (31.8)	1.250 (31.8)	1.156 (29.4)	3.500 (88.9)	.375 (9.5)	.500 (12.7)
038	17	E	M25 X 1-6H	1.250 (31.8)	1.312 (33.3)	1.250 (31.8)	1.500 (38.1)	.500 (12.7)	.625 (15.9)
039	17	E	M25 X 1-6H	1.250 (31.8)	1.312 (33.3)	1.250 (31.8)	2.500 (63.5)	.500 (12.7)	.625 (15.9)
040	17	E	M25 X 1-6H	1.250 (31.8)	1.312 (33.3)	1.250 (31.8)	3.500 (88.9)	.500 (12.7)	.625 (15.9)
041	17	E	M25 X 1-6H	1.250 (31.8)	1.375 (34.9)	1.375 (34.9)	1.500 (38.1)	.625 (15.9)	.750 (19.1)
042	17	E	M25 X 1-6H	1.250 (31.8)	1.375 (34.9)	1.375 (34.9)	2.500 (63.5)	.625 (15.9)	.750 (19.1)
043	17	E	M25 X 1-6H	1.250 (31.8)	1.375 (34.9)	1.375 (34.9)	3.500 (88.9)	.625 (15.9)	.750 (19.1)
044	19	F	M28 X 1-6H	1.400 (35.6)	1.250 (31.8)	1.062 (27.0)	1.500 (38.1)	.250 (6.4)	.375 (9.5)
045	19	F	M28 X 1-6H	1.400 (35.6)	1.250 (31.8)	1.062 (27.0)	2.500 (63.5)	.250 (6.4)	.375 (9.5)
046	19	F	M28 X 1-6H	1.400 (35.6)	1.250 (31.8)	1.062 (27.0)	3.500 (88.9)	.250 (6.4)	.375 (9.5)
047	19	F	M28 X 1-6H	1.400 (35.6)	1.250 (31.8)	1.156 (29.4)	1.500 (38.1)	.375 (9.5)	.500 (12.7)
048	19	F	M28 X 1-6H	1.400 (35.6)	1.250 (31.8)	1.156 (29.4)	2.500 (63.5)	.375 (9.5)	.500 (12.7)
049	19	F	M28 X 1-6H	1.400 (35.6)	1.250 (31.8)	1.156 (29.4)	3.500 (88.9)	.375 (9.5)	.500 (12.7)
050	19	F	M28 X 1-6H	1.400 (35.6)	1.312 (33.3)	1.250 (31.8)	1.500 (38.1)	.500 (12.7)	.625 (15.9)
051	19	F	M28 X 1-6H	1.400 (35.6)	1.312 (33.3)	1.250 (31.8)	2.500 (63.5)	.500 (12.7)	.625 (15.9)
052	19	F	M28 X 1-6H	1.400 (35.6)	1.312 (33.3)	1.250 (31.8)	3.500 (88.9)	.500 (12.7)	.625 (15.9)
053	19	F	M28 X 1-6H	1.400 (35.6)	1.375 (34.9)	1.375 (34.9)	1.500 (38.1)	.625 (15.9)	.750 (19.1)
054	19	F	M28 X 1-6H	1.400 (35.6)	1.375 (34.9)	1.375 (34.9)	2.500 (63.5)	.625 (15.9)	.750 (19.1)
055	19	F	M28 X 1-6H	1.400 (35.6)	1.375 (34.9)	1.375 (34.9)	3.500 (88.9)	.625 (15.9)	.750 (19.1)
056	19	F	M28 X 1-6H	1.400 (35.6)	1.500 (38.1)	1.500 (38.1)	1.500 (38.1)	.750 (19.1)	.875 (22.2)
057	19	F	M28 X 1-6H	1.400 (35.6)	1.500 (38.1)	1.500 (38.1)	2.500 (63.5)	.750 (19.1)	.875 (22.2)
058	19	F	M28 X 1-6H	1.400 (35.6)	1.500 (38.1)	1.500 (38.1)	3.500 (88.9)	.750 (19.1)	.875 (22.2)

Dimensions are in inches (mm).

(Continued on next page)

Rev. 1302.1

Straight EMI/RFI Env. Backshell

T9 Series • Advanced Military & Aerospace Connectors

Backshell Dimensions (Continued from previous page)

Dash No.	Shell Size	Military Shell Size	V Thread Class 2B	D	T	B	L	CC Cable Clearance	
								Min	Max
059	21	G	M31 X 1-6H	1.550 (39.4)	1.250 (31.8)	1.062 (27.0)	1.500 (38.1)	.250 (6.4)	.375 (9.5)
060	21	G	M31 X 1-6H	1.550 (39.4)	1.250 (31.8)	1.062 (27.0)	2.500 (63.5)	.250 (6.4)	.375 (9.5)
061	21	G	M31 X 1-6H	1.550 (39.4)	1.250 (31.8)	1.062 (27.0)	3.500 (88.9)	.250 (6.4)	.375 (9.5)
062	21	G	M31 X 1-6H	1.550 (39.4)	1.250 (31.8)	1.062 (27.0)	4.500 (114.3)	.250 (6.4)	.375 (9.5)
063	21	G	M31 X 1-6H	1.550 (39.4)	1.250 (31.8)	1.156 (29.4)	1.500 (38.1)	.375 (9.5)	.500 (12.7)
064	21	G	M31 X 1-6H	1.550 (39.4)	1.250 (31.8)	1.156 (29.4)	2.500 (63.5)	.375 (9.5)	.500 (12.7)
065	21	G	M31 X 1-6H	1.550 (39.4)	1.250 (31.8)	1.156 (29.4)	3.500 (88.9)	.375 (9.5)	.500 (12.7)
066	21	G	M31 X 1-6H	1.550 (39.4)	1.250 (31.8)	1.156 (29.4)	4.500 (114.3)	.375 (9.5)	.500 (12.7)
067	21	G	M31 X 1-6H	1.550 (39.4)	1.312 (33.3)	1.250 (31.8)	1.500 (38.1)	.500 (12.7)	.625 (15.9)
068	21	G	M31 X 1-6H	1.550 (39.4)	1.312 (33.3)	1.250 (31.8)	2.500 (63.5)	.500 (12.7)	.625 (15.9)
069	21	G	M31 X 1-6H	1.550 (39.4)	1.312 (33.3)	1.250 (31.8)	3.500 (88.9)	.500 (12.7)	.625 (15.9)
070	21	G	M31 X 1-6H	1.550 (39.4)	1.312 (33.3)	1.250 (31.8)	4.500 (114.3)	.500 (12.7)	.625 (15.9)
071	21	G	M31 X 1-6H	1.550 (39.4)	1.375 (34.9)	1.375 (34.9)	1.500 (38.1)	.625 (15.9)	.750 (19.1)
072	21	G	M31 X 1-6H	1.550 (39.4)	1.375 (34.9)	1.375 (34.9)	2.500 (63.5)	.625 (15.9)	.750 (19.1)
073	21	G	M31 X 1-6H	1.550 (39.4)	1.375 (34.9)	1.375 (34.9)	3.500 (88.9)	.625 (15.9)	.750 (19.1)
074	21	G	M31 X 1-6H	1.550 (39.4)	1.375 (34.9)	1.375 (34.9)	4.500 (114.3)	.625 (15.9)	.750 (19.1)
075	21	G	M31 X 1-6H	1.550 (39.4)	1.500 (38.1)	1.500 (38.1)	1.500 (38.1)	.750 (19.1)	.875 (22.2)
076	21	G	M31 X 1-6H	1.550 (39.4)	1.500 (38.1)	1.500 (38.1)	2.500 (63.5)	.750 (19.1)	.875 (22.2)
077	21	G	M31 X 1-6H	1.550 (39.4)	1.500 (38.1)	1.500 (38.1)	3.500 (88.9)	.750 (19.1)	.875 (22.2)
078	21	G	M31 X 1-6H	1.550 (39.4)	1.500 (38.1)	1.500 (38.1)	4.500 (114.3)	.750 (19.1)	.875 (22.2)
079	21	G	M31 X 1-6H	1.550 (39.4)	1.625 (41.3)	1.625 (41.3)	1.500 (38.1)	.875 (22.2)	1.000 (25.4)
080	21	G	M31 X 1-6H	1.550 (39.4)	1.625 (41.3)	1.625 (41.3)	2.500 (63.5)	.875 (22.2)	1.000 (25.4)
081	21	G	M31 X 1-6H	1.550 (39.4)	1.625 (41.3)	1.625 (41.3)	3.500 (88.9)	.875 (22.2)	1.000 (25.4)
082	21	G	M31 X 1-6H	1.550 (39.4)	1.625 (41.3)	1.625 (41.3)	4.500 (114.3)	.875 (22.2)	1.000 (25.4)
083	23	H	M34 X 1-6H	1.650 (41.9)	1.250 (31.8)	1.062 (27.0)	1.500 (38.1)	.250 (6.4)	.375 (9.5)
084	23	H	M34 X 1-6H	1.650 (41.9)	1.250 (31.8)	1.062 (27.0)	2.500 (63.5)	.250 (6.4)	.375 (9.5)
085	23	H	M34 X 1-6H	1.650 (41.9)	1.250 (31.8)	1.062 (27.0)	3.500 (88.9)	.250 (6.4)	.375 (9.5)
086	23	H	M34 X 1-6H	1.650 (41.9)	1.250 (31.8)	1.062 (27.0)	4.500 (114.3)	.250 (6.4)	.375 (9.5)
087	23	H	M34 X 1-6H	1.650 (41.9)	1.250 (31.8)	1.156 (29.4)	1.500 (38.1)	.375 (9.5)	.500 (12.7)
088	23	H	M34 X 1-6H	1.650 (41.9)	1.250 (31.8)	1.156 (29.4)	2.500 (63.5)	.375 (9.5)	.500 (12.7)
089	23	H	M34 X 1-6H	1.650 (41.9)	1.250 (31.8)	1.156 (29.4)	3.500 (88.9)	.375 (9.5)	.500 (12.7)
090	23	H	M34 X 1-6H	1.650 (41.9)	1.250 (31.8)	1.156 (29.4)	4.500 (114.3)	.375 (9.5)	.500 (12.7)
091	23	H	M34 X 1-6H	1.650 (41.9)	1.312 (33.3)	1.250 (31.8)	1.500 (38.1)	.500 (12.7)	.625 (15.9)
092	23	H	M34 X 1-6H	1.650 (41.9)	1.312 (33.3)	1.250 (31.8)	2.500 (63.5)	.500 (12.7)	.625 (15.9)
093	23	H	M34 X 1-6H	1.650 (41.9)	1.312 (33.3)	1.250 (31.8)	3.500 (88.9)	.500 (12.7)	.625 (15.9)
094	23	H	M34 X 1-6H	1.650 (41.9)	1.312 (33.3)	1.250 (31.8)	4.500 (114.3)	.500 (12.7)	.625 (15.9)
095	23	H	M34 X 1-6H	1.650 (41.9)	1.375 (34.9)	1.375 (34.9)	1.500 (38.1)	.625 (15.9)	.750 (19.1)
096	23	H	M34 X 1-6H	1.650 (41.9)	1.375 (34.9)	1.375 (34.9)	2.500 (63.5)	.625 (15.9)	.750 (19.1)
097	23	H	M34 X 1-6H	1.650 (41.9)	1.375 (34.9)	1.375 (34.9)	3.500 (88.9)	.625 (15.9)	.750 (19.1)
098	23	H	M34 X 1-6H	1.650 (41.9)	1.375 (34.9)	1.375 (34.9)	4.500 (114.3)	.625 (15.9)	.750 (19.1)
099	23	H	M34 X 1-6H	1.650 (41.9)	1.500 (38.1)	1.500 (38.1)	1.500 (38.1)	.750 (19.1)	.875 (22.2)
100	23	H	M34 X 1-6H	1.650 (41.9)	1.500 (38.1)	1.500 (38.1)	2.500 (63.5)	.750 (19.1)	.875 (22.2)
101	23	H	M34 X 1-6H	1.650 (41.9)	1.500 (38.1)	1.500 (38.1)	3.500 (88.9)	.750 (19.1)	.875 (22.2)
102	23	H	M34 X 1-6H	1.650 (41.9)	1.500 (38.1)	1.500 (38.1)	4.500 (114.3)	.750 (19.1)	.875 (22.2)
103	23	H	M34 X 1-6H	1.650 (41.9)	1.625 (41.3)	1.625 (41.3)	1.500 (38.1)	.875 (22.2)	1.000 (25.4)
104	23	H	M34 X 1-6H	1.650 (41.9)	1.625 (41.3)	1.625 (41.3)	2.500 (63.5)	.875 (22.2)	1.000 (25.4)
105	23	H	M34 X 1-6H	1.650 (41.9)	1.625 (41.3)	1.625 (41.3)	3.500 (88.9)	.875 (22.2)	1.000 (25.4)

Dimensions are in inches (mm).

(Continued on next page)

Backshell Dimensions (Continued from previous page)

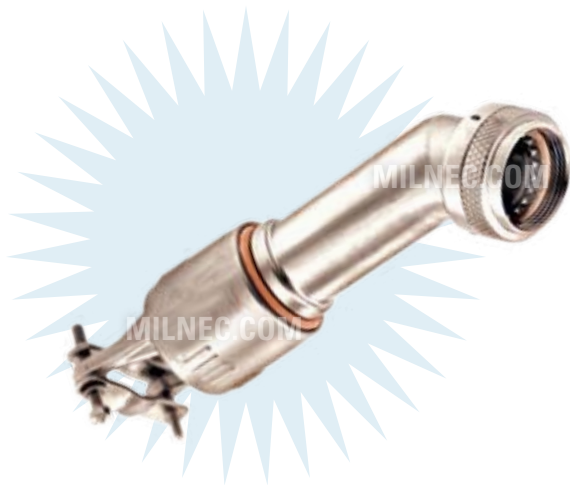
Dash No.	Shell Size	Military Shell Size	V Thread Class 2B	D	T	B	L	CC Cable Clearance	
								Min	Max
106	23	H	M34 X 1-6H	1.650 (41.9)	1.625 (41.3)	1.625 (41.3)	4.500 (114.3)	.875 (22.2)	1.000 (25.4)
107	23	H	M34 X 1-6H	1.650 (41.9)	1.625 (41.3)	1.750 (44.5)	1.500 (38.1)	1.000 (25.4)	1.125 (28.6)
108	23	H	M34 X 1-6H	1.650 (41.9)	1.625 (41.3)	1.750 (44.5)	2.500 (63.5)	1.000 (25.4)	1.125 (28.6)
109	23	H	M34 X 1-6H	1.650 (41.9)	1.625 (41.3)	1.750 (44.5)	3.500 (88.9)	1.000 (25.4)	1.125 (28.6)
110	23	H	M34 X 1-6H	1.650 (41.9)	1.625 (41.3)	1.750 (44.5)	4.500 (114.3)	1.000 (25.4)	1.125 (28.6)
111	25	J	M37 X 1-6H	1.850 (47.0)	1.250 (31.8)	1.156 (29.4)	1.500 (38.1)	.375 (9.5)	.500 (12.7)
112	25	J	M37 X 1-6H	1.850 (47.0)	1.250 (31.8)	1.156 (29.4)	2.500 (63.5)	.375 (9.5)	.500 (12.7)
113	25	J	M37 X 1-6H	1.850 (47.0)	1.250 (31.8)	1.156 (29.4)	3.500 (88.9)	.375 (9.5)	.500 (12.7)
114	25	J	M37 X 1-6H	1.850 (47.0)	1.250 (31.8)	1.156 (29.4)	4.500 (114.3)	.375 (9.5)	.500 (12.7)
115	25	J	M37 X 1-6H	1.850 (47.0)	1.312 (33.3)	1.250 (31.8)	1.500 (38.1)	.500 (12.7)	.625 (15.9)
116	25	J	M37 X 1-6H	1.850 (47.0)	1.312 (33.3)	1.250 (31.8)	2.500 (63.5)	.500 (12.7)	.625 (15.9)
117	25	J	M37 X 1-6H	1.850 (47.0)	1.312 (33.3)	1.250 (31.8)	3.500 (88.9)	.500 (12.7)	.625 (15.9)
118	25	J	M37 X 1-6H	1.850 (47.0)	1.312 (33.3)	1.250 (31.8)	4.500 (114.3)	.500 (12.7)	.625 (15.9)
119	25	J	M37 X 1-6H	1.850 (47.0)	1.375 (34.9)	1.375 (34.9)	1.500 (38.1)	.625 (15.9)	.750 (19.1)
120	25	J	M37 X 1-6H	1.850 (47.0)	1.375 (34.9)	1.375 (34.9)	2.500 (63.5)	.625 (15.9)	.750 (19.1)
121	25	J	M37 X 1-6H	1.850 (47.0)	1.375 (34.9)	1.375 (34.9)	3.500 (88.9)	.625 (15.9)	.750 (19.1)
122	25	J	M37 X 1-6H	1.850 (47.0)	1.375 (34.9)	1.375 (34.9)	4.500 (114.3)	.625 (15.9)	.750 (19.1)
123	25	J	M37 X 1-6H	1.850 (47.0)	1.500 (38.1)	1.500 (38.1)	1.500 (38.1)	.750 (19.1)	.875 (22.2)
124	25	J	M37 X 1-6H	1.850 (47.0)	1.500 (38.1)	1.500 (38.1)	2.500 (63.5)	.750 (19.1)	.875 (22.2)
125	25	J	M37 X 1-6H	1.850 (47.0)	1.500 (38.1)	1.500 (38.1)	3.500 (88.9)	.750 (19.1)	.875 (22.2)
126	25	J	M37 X 1-6H	1.850 (47.0)	1.500 (38.1)	1.500 (38.1)	4.500 (114.3)	.750 (19.1)	.875 (22.2)
127	25	J	M37 X 1-6H	1.850 (47.0)	1.625 (41.3)	1.625 (41.3)	1.500 (38.1)	.875 (22.2)	1.000 (25.4)
128	25	J	M37 X 1-6H	1.850 (47.0)	1.625 (41.3)	1.625 (41.3)	2.500 (63.5)	.875 (22.2)	1.000 (25.4)
129	25	J	M37 X 1-6H	1.850 (47.0)	1.625 (41.3)	1.625 (41.3)	3.500 (88.9)	.875 (22.2)	1.000 (25.4)
130	25	J	M37 X 1-6H	1.850 (47.0)	1.625 (41.3)	1.625 (41.3)	4.500 (114.3)	.875 (22.2)	1.000 (25.4)
131	25	J	M37 X 1-6H	1.850 (47.0)	1.625 (41.3)	1.750 (44.5)	1.500 (38.1)	1.000 (25.4)	1.125 (28.6)
132	25	J	M37 X 1-6H	1.850 (47.0)	1.625 (41.3)	1.750 (44.5)	2.500 (63.5)	1.000 (25.4)	1.125 (28.6)
133	25	J	M37 X 1-6H	1.850 (47.0)	1.625 (41.3)	1.750 (44.5)	3.500 (88.9)	1.000 (25.4)	1.125 (28.6)
134	25	J	M37 X 1-6H	1.850 (47.0)	1.625 (41.3)	1.750 (44.5)	4.500 (114.3)	1.000 (25.4)	1.125 (28.6)
135	25	J	M37 X 1-6H	1.850 (47.0)	1.625 (41.3)	1.875 (47.6)	1.500 (38.1)	1.125 (28.6)	1.250 (31.8)
136	25	J	M37 X 1-6H	1.850 (47.0)	1.625 (41.3)	1.875 (47.6)	2.500 (63.5)	1.125 (28.6)	1.250 (31.8)
137	25	J	M37 X 1-6H	1.850 (47.0)	1.625 (41.3)	1.875 (47.6)	3.500 (88.9)	1.125 (28.6)	1.250 (31.8)
138	25	J	M37 X 1-6H	1.850 (47.0)	1.625 (41.3)	1.875 (47.6)	4.500 (114.3)	1.125 (28.6)	1.250 (31.8)

Dimensions are in inches (mm).



45° EMI/RFI Env. Backshell

T9 Series • Advanced Military & Aerospace Connectors



T9R3 - 015 N

- 1
- 2
- 3
- 1
- 2
- 3

BASIC PART NUMBER
T9R3 45° EMI/RFI environmental backshell

DASH NO.
See Backshell Dimensions table below

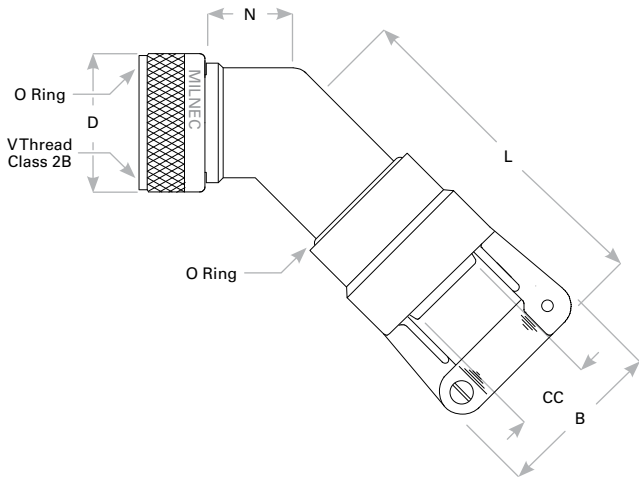
MATERIAL & FINISH
N Aluminum, electroless nickel
W Aluminum, olive drab cadmium
K* Stainless steel, passivated
L* Stainless steel, electrodeposited nickel

* Please consult an authorized distributor for lead time and minimum quantity requirements.

Note: See part builder (p. F-17) for additional kit options.

Angled EMI/RFI & environmental protection

This backshell provides environmental protection against dirt, dust, water, and moisture, as well as EMI/RFI interference protection. The 45° angle offers simple cable management in confined spaces. For proper sealing, please order the clamp size best suited to fit your outside cable diameter.



Backshell Dimensions

Dash No.	Shell Size	Military Shell Size	V Thread Class 2B	N	L	D	B	CC Cable Clearance	
								Min	Max
001	9	A	M12 X 1-6H	.398 (10.1)	3.088 (78.4)	.750 (19.1)	.800 (20.3)	.062 (1.6)	.125 (3.2)
002	9	A	M12 X 1-6H	.398 (10.1)	3.088 (78.4)	.750 (19.1)	1.000 (25.4)	.125 (3.2)	.250 (6.4)
003	11	B	M15 X 1-6H	.458 (11.6)	3.148 (80.0)	.850 (21.6)	.800 (20.3)	.062 (1.6)	.125 (3.2)
004	11	B	M15 X 1-6H	.458 (11.6)	3.148 (80.0)	.850 (21.6)	1.000 (25.4)	.125 (3.2)	.250 (6.4)
005	11	B	M15 X 1-6H	.458 (11.6)	3.148 (80.0)	.850 (21.6)	1.100 (27.9)	.250 (6.4)	.375 (9.5)
006	13	C	M18 X 1-6H	.518 (13.2)	3.208 (81.5)	1.000 (25.4)	1.000 (25.4)	.125 (3.2)	.250 (6.4)
007	13	C	M18 X 1-6H	.518 (13.2)	3.208 (81.5)	1.000 (25.4)	1.100 (27.9)	.250 (6.4)	.375 (9.5)
008	13	C	M18 X 1-6H	.518 (13.2)	3.208 (81.5)	1.000 (25.4)	1.200 (30.5)	.375 (9.5)	.500 (12.7)
009	15	D	M22 X 1-6H	.588 (14.9)	3.298 (83.8)	1.150 (29.2)	1.000 (25.4)	.125 (3.2)	.250 (6.4)
010	15	D	M22 X 1-6H	.588 (14.9)	3.298 (83.8)	1.150 (29.2)	1.100 (27.9)	.250 (6.4)	.375 (9.5)

Dimensions are in inches (mm).

(Continued on next page)

Rev. 1302.1

Backshell Dimensions (Continued from previous page)

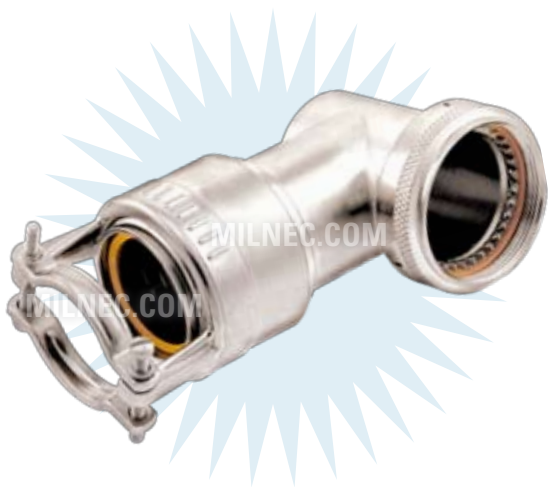
Dash No.	Shell Size	Military Shell Size	V Thread Class 2B	N	L	D	B	CC Cable Clearance	
								Min	Max
011	15	D	M22 X 1-6H	.588 (14.9)	3.298 (83.8)	1.150 (29.2)	1.200 (30.5)	.375 (9.5)	.500 (12.7)
012	15	D	M22 X 1-6H	.588 (14.9)	3.298 (83.8)	1.150 (29.2)	1.250 (31.8)	.500 (12.7)	.625 (15.9)
013	17	E	M25 X 1-6H	.678 (17.2)	3.408 (86.6)	1.250 (31.8)	1.000 (25.4)	.125 (3.2)	.250 (6.4)
014	17	E	M25 X 1-6H	.678 (17.2)	3.408 (86.6)	1.250 (31.8)	1.100 (27.9)	.250 (6.4)	.375 (9.5)
015	17	E	M25 X 1-6H	.678 (17.2)	3.408 (86.6)	1.250 (31.8)	1.200 (30.5)	.375 (9.5)	.500 (12.7)
016	17	E	M25 X 1-6H	.678 (17.2)	3.408 (86.6)	1.250 (31.8)	1.250 (31.8)	.500 (12.7)	.625 (15.9)
017	17	E	M25 X 1-6H	.678 (17.2)	3.408 (86.6)	1.250 (31.8)	1.400 (35.6)	.625 (15.9)	.750 (19.1)
018	19	F	M28 X 1-6H	.868 (22.0)	3.598 (91.4)	1.400 (35.6)	1.100 (27.9)	.250 (6.4)	.375 (9.5)
019	19	F	M28 X 1-6H	.868 (22.0)	3.598 (91.4)	1.400 (35.6)	1.200 (30.5)	.375 (9.5)	.500 (12.7)
020	19	F	M28 X 1-6H	.868 (22.0)	3.598 (91.4)	1.400 (35.6)	1.250 (31.8)	.500 (12.7)	.625 (15.9)
021	19	F	M28 X 1-6H	.868 (22.0)	3.598 (91.4)	1.400 (35.6)	1.400 (35.6)	.625 (15.9)	.750 (19.1)
022	19	F	M28 X 1-6H	.868 (22.0)	3.598 (91.4)	1.400 (35.6)	1.500 (38.1)	.750 (19.1)	.875 (22.2)
023	21	G	M31 X 1-6H	.868 (22.0)	3.598 (91.4)	1.550 (39.4)	1.100 (27.9)	.250 (6.4)	.375 (9.5)
024	21	G	M31 X 1-6H	.868 (22.0)	3.598 (91.4)	1.550 (39.4)	1.200 (30.5)	.375 (9.5)	.500 (12.7)
025	21	G	M31 X 1-6H	.868 (22.0)	3.598 (91.4)	1.550 (39.4)	1.250 (31.8)	.500 (12.7)	.625 (15.9)
026	21	G	M31 X 1-6H	.868 (22.0)	3.598 (91.4)	1.550 (39.4)	1.400 (35.6)	.625 (15.9)	.750 (19.1)
027	21	G	M31 X 1-6H	.868 (22.0)	3.598 (91.4)	1.550 (39.4)	1.500 (38.1)	.750 (19.1)	.875 (22.2)
028	21	G	M31 X 1-6H	.868 (22.0)	3.598 (91.4)	1.550 (39.4)	1.650 (41.9)	.875 (22.2)	1.000 (25.4)
029	23	H	M34 X 1-6H	.958 (24.3)	3.748 (95.2)	1.650 (41.9)	1.100 (27.9)	.250 (6.4)	.375 (9.5)
030	23	H	M34 X 1-6H	.958 (24.3)	3.748 (95.2)	1.650 (41.9)	1.200 (30.5)	.375 (9.5)	.500 (12.7)
031	23	H	M34 X 1-6H	.958 (24.3)	3.748 (95.2)	1.650 (41.9)	1.250 (31.8)	.500 (12.7)	.625 (15.9)
032	23	H	M34 X 1-6H	.958 (24.3)	3.748 (95.2)	1.650 (41.9)	1.400 (35.6)	.625 (15.9)	.750 (19.1)
033	23	H	M34 X 1-6H	.958 (24.3)	3.748 (95.2)	1.650 (41.9)	1.500 (38.1)	.750 (19.1)	.875 (22.2)
034	23	H	M34 X 1-6H	.958 (24.3)	3.748 (95.2)	1.650 (41.9)	1.650 (41.9)	.875 (22.2)	1.000 (25.4)
035	23	H	M34 X 1-6H	.958 (24.3)	3.748 (95.2)	1.650 (41.9)	1.750 (44.5)	1.000 (25.4)	1.125 (28.6)
036	25	J	M37 X 1-6H	.958 (24.3)	3.748 (95.2)	1.850 (47.0)	1.200 (30.5)	.375 (9.5)	.500 (12.7)
037	25	J	M37 X 1-6H	.958 (24.3)	3.748 (95.2)	1.850 (47.0)	1.250 (31.8)	.500 (12.7)	.625 (15.9)
038	25	J	M37 X 1-6H	.958 (24.3)	3.748 (95.2)	1.850 (47.0)	1.400 (35.6)	.625 (15.9)	.750 (19.1)
039	25	J	M37 X 1-6H	.958 (24.3)	3.748 (95.2)	1.850 (47.0)	1.500 (38.1)	.750 (19.1)	.875 (22.2)
040	25	J	M37 X 1-6H	.958 (24.3)	3.748 (95.2)	1.850 (47.0)	1.650 (41.9)	.875 (22.2)	1.000 (25.4)
041	25	J	M37 X 1-6H	.958 (24.3)	3.748 (95.2)	1.850 (47.0)	1.750 (44.5)	1.000 (25.4)	1.125 (28.6)
042	25	J	M37 X 1-6H	.958 (24.3)	3.748 (95.2)	1.850 (47.0)	1.900 (48.3)	1.125 (28.6)	1.250 (31.8)

Dimensions are in inches (mm).



90° EMI/RFI Env. Backshell

T9 Series • Advanced Military & Aerospace Connectors



T9R4 - 015 N

- 1 BASIC PART NUMBER
- 2 DASH NO.
- 3 MATERIAL & FINISH

T9R4 90° EMI/RFI environmental backshell

See Backshell Dimensions table below

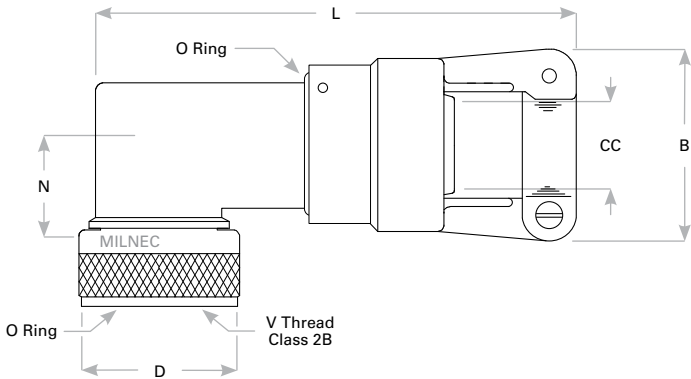
- N Aluminum, electroless nickel
- W Aluminum, olive drab cadmium
- K* Stainless steel, passivated
- L* Stainless steel, electrodeposited nickel

* Please consult an authorized distributor for lead time and minimum quantity requirements.

Note: See part builder (p. F-17) for additional kit options.

Total protection & cable management

This backshell provides the ultimate in protection against environmental hazards and EMI/RFI interference. The 90° angle makes cable management in confined spaces easy. For proper sealing, please order the clamp size best suited to fit your outside cable diameter.



Backshell Dimensions

Dash No.	Shell Size	Military Shell Size	V Thread Class 2B	N	L	D	B	CC Cable Clearance	
								Min	Max
001	9	A	M12 X 1-6H	.438 (11.1)	3.141 (79.8)	.750 (19.1)	.800 (20.3)	.062 (1.6)	.125 (3.2)
002	9	A	M12 X 1-6H	.438 (11.1)	3.141 (79.8)	.750 (19.1)	1.000 (25.4)	.125 (3.2)	.250 (6.4)
003	11	B	M15 X 1-6H	.533 (13.5)	3.261 (82.8)	.850 (21.6)	.800 (20.3)	.062 (1.6)	.125 (3.2)
004	11	B	M15 X 1-6H	.533 (13.5)	3.261 (82.8)	.850 (21.6)	1.000 (25.4)	.125 (3.2)	.250 (6.4)
005	11	B	M15 X 1-6H	.533 (13.5)	3.261 (82.8)	.850 (21.6)	1.100 (27.9)	.250 (6.4)	.375 (9.5)
006	13	C	M18 X 1-6H	.548 (13.9)	3.281 (83.3)	1.000 (25.4)	1.000 (25.4)	.125 (3.2)	.250 (6.4)
007	13	C	M18 X 1-6H	.548 (13.9)	3.281 (83.3)	1.000 (25.4)	1.100 (27.9)	.250 (6.4)	.375 (9.5)
008	13	C	M18 X 1-6H	.548 (13.9)	3.281 (83.3)	1.000 (25.4)	1.200 (30.5)	.375 (9.5)	.500 (12.7)
009	15	D	M22 X 1-6H	.638 (16.2)	3.351 (85.1)	1.150 (29.2)	1.000 (25.4)	.125 (3.2)	.250 (6.4)
010	15	D	M22 X 1-6H	.638 (16.2)	3.351 (85.1)	1.150 (29.2)	1.100 (27.9)	.250 (6.4)	.375 (9.5)

Dimensions are in inches (mm).

(Continued on next page)

Rev. 1302.1

Backshell Dimensions (Continued from previous page)

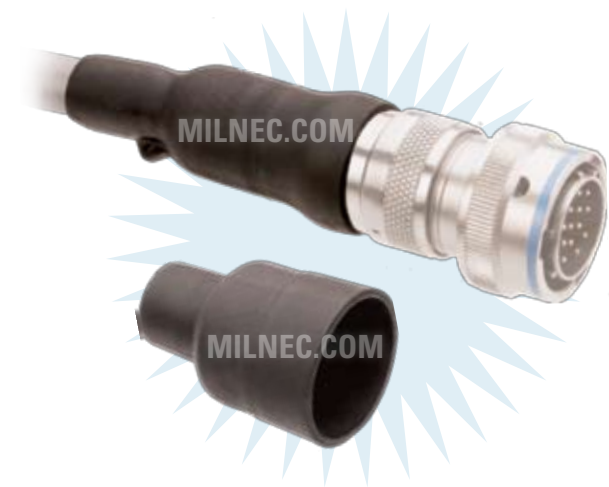
Dash No.	Shell Size	Military Shell Size	V Thread Class 2B	N	L	D	B	CC Cable Clearance	
								Min	Max
011	15	D	M22 X 1-6H	.638 (16.2)	3.351 (85.1)	1.150 (29.2)	1.200 (30.5)	.375 (9.5)	.500 (12.7)
012	15	D	M22 X 1-6H	.638 (16.2)	3.351 (85.1)	1.150 (29.2)	1.250 (31.8)	.500 (12.7)	.625 (15.9)
013	17	E	M25 X 1-6H	.823 (20.9)	3.441 (87.4)	1.250 (31.8)	1.000 (25.4)	.125 (3.2)	.250 (6.4)
014	17	E	M25 X 1-6H	.823 (20.9)	3.441 (87.4)	1.250 (31.8)	1.100 (27.9)	.250 (6.4)	.375 (9.5)
015	17	E	M25 X 1-6H	.823 (20.9)	3.441 (87.4)	1.250 (31.8)	1.200 (30.5)	.375 (9.5)	.500 (12.7)
016	17	E	M25 X 1-6H	.823 (20.9)	3.441 (87.4)	1.250 (31.8)	1.250 (31.8)	.500 (12.7)	.625 (15.9)
017	17	E	M25 X 1-6H	.823 (20.9)	3.441 (87.4)	1.250 (31.8)	1.400 (35.6)	.625 (15.9)	.750 (19.1)
018	19	F	M28 X 1-6H	.913 (23.2)	3.611 (91.7)	1.400 (35.6)	1.100 (27.9)	.250 (6.4)	.375 (9.5)
019	19	F	M28 X 1-6H	.913 (23.2)	3.611 (91.7)	1.400 (35.6)	1.200 (30.5)	.375 (9.5)	.500 (12.7)
020	19	F	M28 X 1-6H	.913 (23.2)	3.611 (91.7)	1.400 (35.6)	1.250 (31.8)	.500 (12.7)	.625 (15.9)
021	19	F	M28 X 1-6H	.913 (23.2)	3.611 (91.7)	1.400 (35.6)	1.400 (35.6)	.625 (15.9)	.750 (19.1)
022	19	F	M28 X 1-6H	.913 (23.2)	3.611 (91.7)	1.400 (35.6)	1.500 (38.1)	.750 (19.1)	.875 (22.2)
023	21	G	M31 X 1-6H	.913 (23.2)	3.611 (91.7)	1.550 (39.4)	1.100 (27.9)	.250 (6.4)	.375 (9.5)
024	21	G	M31 X 1-6H	.913 (23.2)	3.611 (91.7)	1.550 (39.4)	1.200 (30.5)	.375 (9.5)	.500 (12.7)
025	21	G	M31 X 1-6H	.913 (23.2)	3.611 (91.7)	1.550 (39.4)	1.250 (31.8)	.500 (12.7)	.625 (15.9)
026	21	G	M31 X 1-6H	.913 (23.2)	3.611 (91.7)	1.550 (39.4)	1.400 (35.6)	.625 (15.9)	.750 (19.1)
027	21	G	M31 X 1-6H	.913 (23.2)	3.611 (91.7)	1.550 (39.4)	1.500 (38.1)	.750 (19.1)	.875 (22.2)
028	21	G	M31 X 1-6H	.913 (23.2)	3.611 (91.7)	1.550 (39.4)	1.650 (41.9)	.875 (22.2)	1.000 (25.4)
029	23	H	M34 X 1-6H	1.063 (27.0)	3.721 (94.5)	1.650 (41.9)	1.100 (27.9)	.250 (6.4)	.375 (9.5)
030	23	H	M34 X 1-6H	1.063 (27.0)	3.721 (94.5)	1.650 (41.9)	1.200 (30.5)	.375 (9.5)	.500 (12.7)
031	23	H	M34 X 1-6H	1.063 (27.0)	3.721 (94.5)	1.650 (41.9)	1.250 (31.8)	.500 (12.7)	.625 (15.9)
032	23	H	M34 X 1-6H	1.063 (27.0)	3.721 (94.5)	1.650 (41.9)	1.400 (35.6)	.625 (15.9)	.750 (19.1)
033	23	H	M34 X 1-6H	1.063 (27.0)	3.721 (94.5)	1.650 (41.9)	1.500 (38.1)	.750 (19.1)	.875 (22.2)
034	23	H	M34 X 1-6H	1.063 (27.0)	3.721 (94.5)	1.650 (41.9)	1.650 (41.9)	.875 (22.2)	1.000 (25.4)
035	23	H	M34 X 1-6H	1.063 (27.0)	3.721 (94.5)	1.650 (41.9)	1.750 (44.5)	1.000 (25.4)	1.125 (28.6)
036	25	J	M37 X 1-6H	1.063 (27.0)	3.721 (94.5)	1.850 (47.0)	1.200 (30.5)	.375 (9.5)	.500 (12.7)
037	25	J	M37 X 1-6H	1.063 (27.0)	3.721 (94.5)	1.850 (47.0)	1.250 (31.8)	.500 (12.7)	.625 (15.9)
038	25	J	M37 X 1-6H	1.063 (27.0)	3.721 (94.5)	1.850 (47.0)	1.400 (35.6)	.625 (15.9)	.750 (19.1)
039	25	J	M37 X 1-6H	1.063 (27.0)	3.721 (94.5)	1.850 (47.0)	1.500 (38.1)	.750 (19.1)	.875 (22.2)
040	25	J	M37 X 1-6H	1.063 (27.0)	3.721 (94.5)	1.850 (47.0)	1.650 (41.9)	.875 (22.2)	1.000 (25.4)
041	25	J	M37 X 1-6H	1.063 (27.0)	3.721 (94.5)	1.850 (47.0)	1.750 (44.5)	1.000 (25.4)	1.125 (28.6)
042	25	J	M37 X 1-6H	1.063 (27.0)	3.721 (94.5)	1.850 (47.0)	1.900 (48.3)	1.125 (28.6)	1.250 (31.8)

Dimensions are in inches (mm).



Straight Shrink Boot

T9 Series • Advanced Military & Aerospace Connectors



Environmental protection, low-profile design
A shrink boot provides complete IP67 environmental protection and strain relief. Must be used with a boot adapter.

T9K2 - 4 - 100

- 1

2

3
- 1

2

3
- BASIC PART NUMBER**
T9K2 Straight shrink boot

BOOT SIZE
See Boot Dimensions table below

MATERIAL
100 Low-smoke, semi-flexible elastomer pre-coated with hot-melt adhesive. Material has excellent fire-safety characteristics and is especially suited where people are confined in enclosed spaces (mass transit, aviation, vehicles, offshore, etc).

 - Temp: -22° to +302°F (-30° to +150°C)
 - Low-smoke index as defined by NES 711
 - Low-toxicity index as defined by NES 713
 - High-temp index as defined NESE 715

* Please consult an authorized distributor for other high-temperature materials and adhesive options.

Boot Size Recommendations

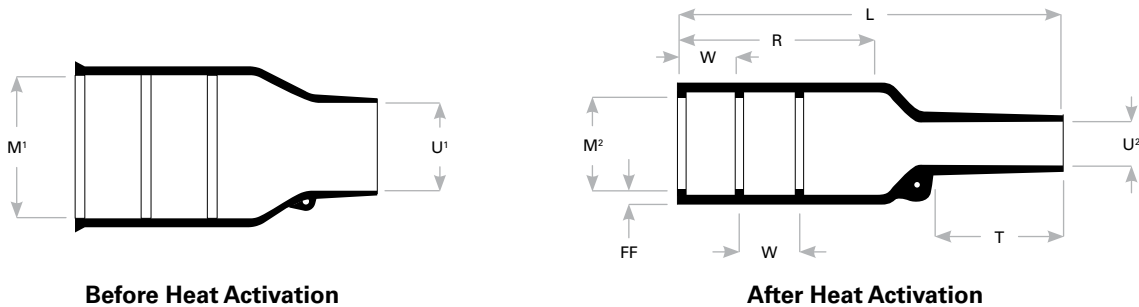
Boot Size	Cable Range		Shell Size									
	Min	Max	9	11	13	15	17	19	21	23	25	
2	.220 (5.6)	.550 (14.0)	✓ *	✓ *	✓ *							
3	.230 (5.9)	.590 (15.0)				✓ *	✓ *					
4	.280 (7.1)	.710 (18.0)						*	*			
5	.330 (8.4)	.830 (21.0)						✓	✓	*	*	
6	.390 (9.9)	.980 (25.0)								✓		✓
7	.620 (15.7)	1.540 (39.0)										
8	.660 (16.8)	1.650 (42.0)										

Dimensions are in inches (mm). ✓ Recommended boot size for (T9AB) Boot Adapter, p. F-45. * Recommended boot size for (T9D2, T9D3, T9D4) EMI/RFI Banding Boot Adapter, p. F-46.

Boot Dimensions

Boot Size	M ¹	U ¹	M ²	U ²	L	R	T	W	FF
2	.940 (24.0)	.550 (14.0)	.410 (10.4)	.220 (5.6)	1.500 (38.0)	.830 (21.0)	.330 (8.5)	.470 (12.0)	.060 (1.6)
3	1.180 (30.0)	.590 (15.0)	.560 (14.2)	.230 (5.9)	2.170 (55.0)	1.260 (32.0)	.450 (11.5)	.470 (12.0)	.070 (1.8)
4	1.220 (31.0)	.710 (18.0)	.710 (18.0)	.280 (7.1)	2.640 (67.0)	1.380 (35.0)	.670 (17.0)	.790 (20.0)	.070 (1.8)
5	1.420 (36.0)	.830 (21.0)	.880 (22.4)	.330 (8.4)	3.150 (80.0)	1.650 (42.0)	.760 (19.5)	.790 (20.0)	.080 (2.0)
6	1.690 (43.0)	.980 (25.0)	1.110 (28.2)	.390 (9.9)	3.900 (99.0)	2.400 (61.0)	.820 (21.0)	.790 (20.0)	.090 (2.2)
7	2.050 (52.0)	1.540 (39.0)	1.380 (35.1)	.620 (15.7)	5.120 (130.0)	2.830 (72.0)	1.530 (39.0)	.790 (20.0)	.130 (3.2)
8	2.600 (66.0)	1.650 (42.0)	1.750 (44.5)	.660 (16.8)	6.690 (170.0)	3.540 (90.0)	2.020 (51.5)	.790 (20.0)	.150 (3.8)

Dimensions are in inches (mm).



Rev. 1302.1

T9K4 - 4 - 100

1 2 3

1 BASIC PART NUMBER

T9K4 90° shrink boot

2 BOOT SIZE

See Boot Dimensions table below

3 MATERIAL

100

Low-smoke, semi-flexible elastomer pre-coated with hot-melt adhesive. Material has excellent fire-safety characteristics and is especially suited where people are confined in enclosed spaces (mass transit, aviation, vehicles, offshore, etc).

- Temp: -22° to +302°F (-30° to +150°C)
- Low-smoke index as defined by NES 711
- Low-toxicity index as defined by NES 713
- High-temp index as defined NESE 715



Angled boot for simple cable management

A 90° shrink boot offers simple cable management, strain relief, and environmental protection. For proper installation, it must be used with a boot adapter.

* Please consult an authorized distributor for other high-temperature materials and adhesive options.

Boot Size Recommendations

Boot Size	Cable Range		Shell Size									
	Min	Max	9	11	13	15	17	19	21	23	25	
2	.220 (5.6)	.550 (14.0)	✓	*	✓	*	✓	*				
3	.230 (5.9)	.590 (15.0)				✓	*	✓	*			
4	.280 (7.1)	.710 (18.0)						*	*			
5	.330 (8.4)	.830 (21.0)						✓	✓	*	*	
6	.390 (9.9)	.980 (25.0)								✓		✓
7	.620 (15.7)	1.540 (39.0)										
8	.660 (16.8)	1.650 (42.0)										

Dimensions are in inches (mm).

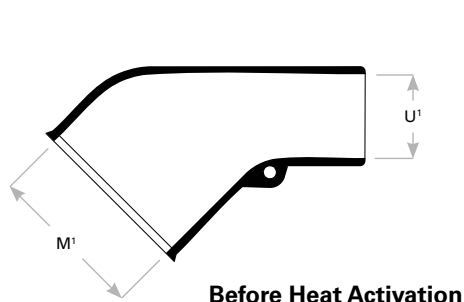
✓ Recommended boot size for (T9AB) Boot Adapter, p. F-45.

* Recommended boot size for (T9D2, T9D3, T9D4) EMI/RFI Banding Boot Adapter, p. F-46.

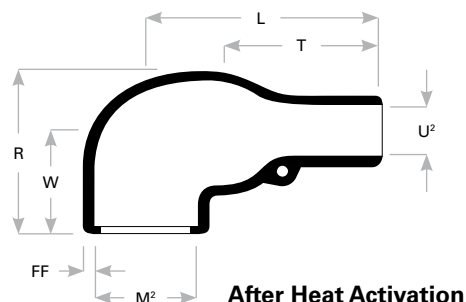
Boot Dimensions

Boot Size	M ¹	U ¹	M ²	U ²	L	R	T	W	FF
2	.940 (24.0)	.550 (14.0)	.410 (10.4)	.220 (5.6)	.980 (25.0)	.980 (25.0)	.630 (16.0)	.750 (19.0)	.050 (1.3)
3	1.180 (30.0)	.590 (15.0)	.560 (14.2)	.230 (5.9)	1.260 (32.0)	1.060 (27.0)	.790 (20.0)	.790 (20.0)	.060 (1.5)
4	1.220 (31.0)	.710 (18.0)	.710 (18.0)	.280 (7.1)	1.540 (39.0)	1.220 (31.0)	.790 (20.0)	.830 (21.0)	.070 (1.8)
5	1.420 (36.0)	.830 (21.0)	.880 (22.4)	.330 (8.4)	1.810 (46.0)	1.500 (38.0)	.980 (25.0)	1.020 (26.0)	.070 (1.8)
6	1.690 (43.0)	.980 (25.0)	1.110 (28.2)	.390 (9.9)	2.171 (55.0)	1.770 (45.0)	1.180 (30.0)	1.180 (30.0)	.080 (2.0)
7	2.050 (52.0)	1.540 (39.0)	1.380 (35.1)	.620 (15.7)	3.150 (80.0)	2.130 (54.0)	1.770 (45.0)	1.380 (35.0)	.130 (3.3)
8	2.600 (66.0)	1.650 (42.0)	1.750 (44.5)	.660 (16.8)	4.250 (108.0)	2.680 (68.0)	2.760 (70.0)	1.650 (42.0)	.150 (3.8)

Dimensions are in inches (mm).



Before Heat Activation



After Heat Activation

Rev. 1302.1

Boot Adapter

T9 Series • Advanced Military & Aerospace Connectors



Adapter for shrink boot installation

This adapter is specifically designed to provide shrink boots with a grooved platform for superior grip and environmental sealing. Spin coupling allows for unscrewing of the connector for field inspection without having to remove the shrink boot.

T9AB - 15 B - K2

- 1 BASIC PART NUMBER**
T9AB Boot adapter
- 2 SHELL SIZE**
See Adapter Dimensions table below
- 3 MATERIAL & FINISH**
B Aluminum, hardcoat anodize
N* Aluminum, electroless nickel
W* Aluminum, olive drab cadmium
- 4 OPTIONAL BOOT KIT (OMIT FOR NONE)**
K2 Includes recommended straight shrink boot in standard material 100, p. F-43
K4 Includes recommended 90° shrink boot in standard material 100, p. F-44

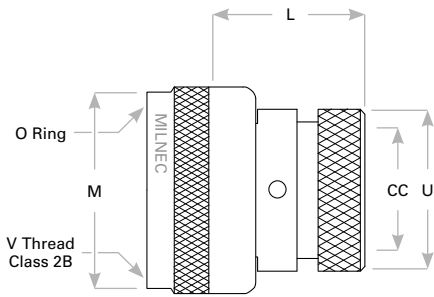
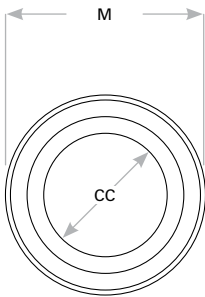
* Please consult an authorized distributor for lead time and minimum quantity requirements.

Note: See part builder (p. F-17) for additional kit options.

Adapter Dimensions

Shell Size	Military Shell Size	CC Cable Clearance	L	M	U	V Thread Class 2B
9	A	.250 (6.4)	.710 (18.0)	.600 (15.2)	.533 (13.5)	M12 X 1-6H
11	B	.375 (9.5)	.710 (18.0)	.717 (18.2)	.605 (15.4)	M15 X 1-6H
13	C	.500 (12.7)	.710 (18.0)	.834 (21.2)	.774 (19.7)	M18 X 1-6H
15	D	.625 (15.9)	.710 (18.0)	.990 (25.2)	.838 (21.3)	M22 X 1-6H
17	E	.750 (19.1)	.710 (18.0)	1.107 (28.1)	.963 (24.5)	M25 X 1-6H
19	F	.812 (20.6)	.710 (18.0)	1.224 (31.1)	1.042 (26.5)	M28 X 1-6H
21	G	.938 (23.8)	.710 (18.0)	1.341 (34.1)	1.217 (30.9)	M31 X 1-6H
23	H	1.062 (27.0)	.710 (18.0)	1.453 (36.9)	1.355 (34.4)	M34 X 1-6H
25	J	1.188 (30.2)	.710 (18.0)	1.567 (39.8)	1.443 (36.7)	M37 X 1-6H

Dimensions are in inches (mm).



Rev. 1302.1

T9D2 - 15 N - K2

1 2 3 4

1 BASIC PART NUMBER

- T9D2** Straight EMI/RFI banding boot adapter
T9D3 45° EMI/RFI banding boot adapter
T9D4 90° EMI/RFI banding boot adapter
 (Includes shield termination band TB250, p. F-54)

2 SHELL SIZE

See Adapter Dimensions table below

3 MATERIAL & FINISH

- N** Aluminum, electroless nickel
W Aluminum, olive drab cadmium
M Composite, electroless nickel
J Composite, olive drab cadmium

4 OPTIONAL BOOT KIT (OMIT FOR NONE)

- K2** Includes recommended straight shrink boot in standard material 100, p. F-43



EMI/RFI shield termination with shrink boots

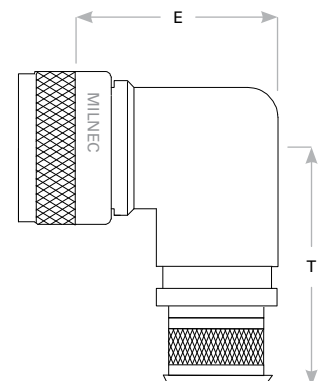
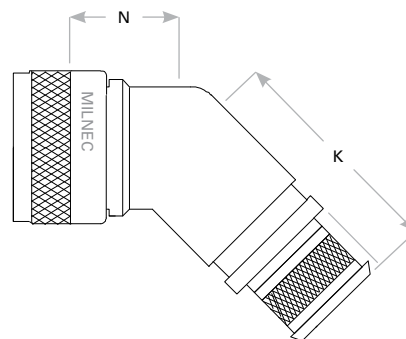
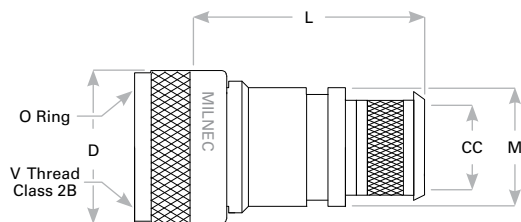
The EMI/RFI banding boot adapter provides effective shield termination for applications using a shrink boot. Shielding is achieved with a band applied by a simple hand tool over a specially designed platform. The overlaying boot ensures strain relief and complete IP67 environmental protection.

Note: Designed for use with straight shrink boot (T9K2, p. F-43). See part builder (p. F-17) for additional kit options.

Adapter Dimensions

Shell Size	Military Shell Size	CC Cable Clearance	M	D	L	N	K	E	T	V Thread Class 2B
9	A	.250 (6.4)	.437 (11.1)	.86 (21.8)	1.350 (34.3)	1.01 (25.7)	1.16 (29.5)	1.375 (34.9)	1.417 (36.0)	M12 X 1-6H
11	B	.312 (7.9)	.500 (12.7)	.99 (25.1)	1.350 (34.3)	1.03 (26.2)	1.19 (30.2)	1.437 (36.5)	1.480 (37.6)	M15 X 1-6H
13	C	.438 (11.1)	.624 (15.8)	1.16 (29.5)	1.350 (34.3)	1.06 (26.9)	1.21 (30.7)	1.562 (39.7)	1.553 (39.4)	M18 X 1-6H
15	D	.562 (14.3)	.750 (19.1)	1.28 (32.5)	1.350 (34.3)	1.08 (27.4)	1.24 (31.5)	1.687 (42.8)	1.614 (41.0)	M22 X 1-6H
17	E	.625 (15.9)	.812 (20.6)	1.41 (35.8)	1.350 (34.3)	1.11 (28.2)	1.26 (32.0)	1.750 (44.5)	1.678 (42.6)	M25 X 1-6H
19	F	.750 (19.1)	.937 (23.8)	1.52 (38.6)	1.350 (34.3)	1.12 (28.4)	1.27 (32.3)	1.875 (47.6)	1.733 (44.0)	M28 X 1-6H
21	G	.812 (20.6)	1.000 (25.4)	1.64 (41.7)	1.350 (34.3)	1.15 (29.2)	1.30 (33.0)	1.938 (49.2)	1.796 (45.6)	M31 X 1-6H
23	H	.938 (23.8)	1.124 (28.5)	1.77 (45.0)	1.350 (34.3)	1.17 (29.7)	1.33 (33.8)	2.062 (52.4)	1.859 (47.2)	M34 X 1-6H
25	J	1.000 (25.4)	1.187 (30.1)	1.89 (48.0)	1.350 (34.3)	1.20 (30.5)	1.35 (34.3)	2.125 (54.0)	1.919 (48.7)	M37 X 1-6H

Dimensions are in inches (mm).



Rev. 1302.1

Protective Covers

T9 Series • Advanced Military & Aerospace Connectors



Cover your connector when not in use
Protect your connectors and contacts from damage and environmental exposure by covering them when not in use. The inner gasket provides environmental sealing while the wire rope attachment keeps the cover close at hand.

T9CP - 15 M E

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4
- BASIC PART NUMBER**

T9CP Plug cover w/ wire rope

T9CR Receptacle cover w/ wire rope

SHELL SIZE

See Protective Cover Dimensions table below

MATERIAL & FINISH

N Aluminum, electroless nickel

W Aluminum, olive drab cadmium

M Composite, electroless nickel

J Composite, olive drab cadmium

ATTACHMENT TYPE

E Eyelet attachment on wire rope

J Jam nut ring attachment on wire rope (for use with T907, T913, T927 jam nut recepts.)

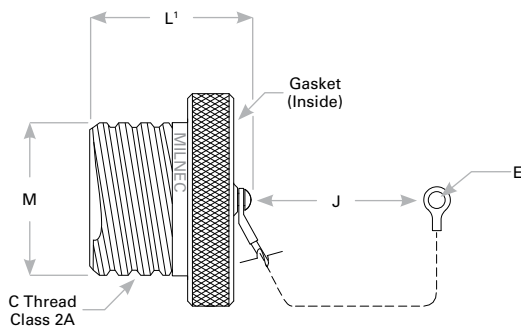
N No attachment

Note: See part builder (p. F-17) for additional kit options.

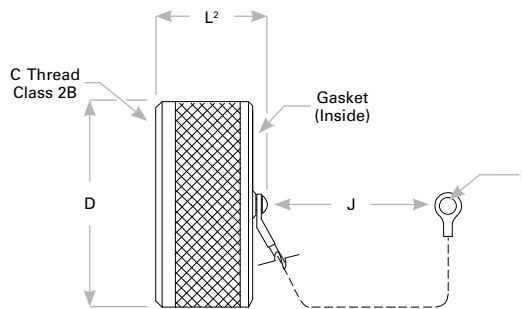
Protective Cover Dimensions

Shell Size	Military Shell Size	C Thread Class 2A/B	L ¹	M	L ²	D	R	E	J Chain Length
9	A	.6250-0.1P-0.3L-TS	1.180 (30.0)	.906 (23.0)	.906 (23.0)	.906 (23.0)	.694 (17.6)	.167 (4.2)	5.000 (127.0)
11	B	.7500-0.1P-0.3L-TS	1.180 (30.0)	1.024 (26.0)	.906 (23.0)	1.102 (28.0)	.865 (22.0)	.167 (4.2)	5.000 (127.0)
13	C	.8750-0.1P-0.3L-TS	1.180 (30.0)	1.220 (31.0)	.906 (23.0)	1.220 (31.0)	.989 (25.1)	.167 (4.2)	5.000 (127.0)
15	D	1.0000-0.1P-0.3L-TS	1.180 (30.0)	1.300 (33.0)	.906 (23.0)	1.260 (32.0)	1.178 (29.9)	.167 (4.2)	5.000 (127.0)
17	E	1.1875-0.1P-0.3L-TS	1.180 (30.0)	1.457 (37.0)	.906 (23.0)	1.457 (37.0)	1.260 (32.0)	.167 (4.2)	5.000 (127.0)
19	F	1.2500-0.1P-0.3L-TS	1.180 (30.0)	1.575 (40.0)	.906 (23.0)	1.535 (39.0)	1.428 (36.3)	.167 (4.2)	5.000 (127.0)
21	G	1.3750-0.1P-0.3L-TS	1.180 (30.0)	1.732 (44.0)	.906 (23.0)	1.654 (42.0)	1.506 (38.3)	.167 (4.2)	5.000 (127.0)
23	H	1.5000-0.1P-0.3L-TS	1.180 (30.0)	1.811 (46.0)	.906 (23.0)	1.772 (45.0)	1.678 (42.6)	.167 (4.2)	5.000 (127.0)
25	J	1.6250-0.1P-0.3L-TS	1.180 (30.0)	1.969 (50.0)	.906 (23.0)	1.929 (49.0)	1.750 (44.5)	.167 (4.2)	5.000 (127.0)

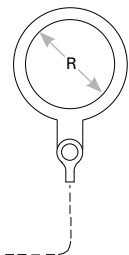
Dimensions are in inches (mm).



Plug Cover



Receptacle Cover



Jam Nut Ring Attachment

Rev. 1302.1

T9CD - 15 W - 03

1 2 3 4

1 BASIC PART NUMBER

T9CD Stowage receptacle

2 SHELL SIZE

See Stowage Receptacle Dimensions table below

3 MATERIAL & FINISH

N* Aluminum, electroless nickel

W Aluminum, olive drab cadmium

K* Stainless steel, passivated

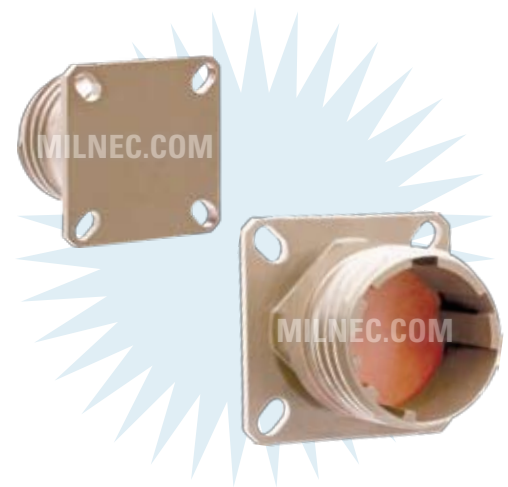
L* Stainless steel, electrodeposited nickel

4 OPTIONAL ACCESSORY KIT (OMIT FOR NONE)

02 Protective cover + mounting gasket

03 02 kit + mounting bracket + sealing screws

* Please consult an authorized distributor for lead time and minimum quantity requirements.



Stow your cable & protect your plug

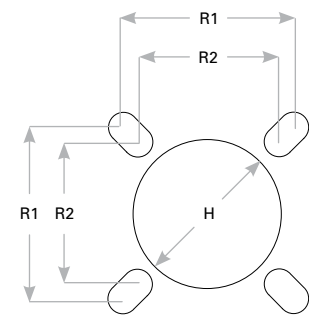
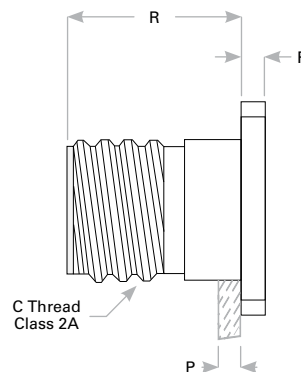
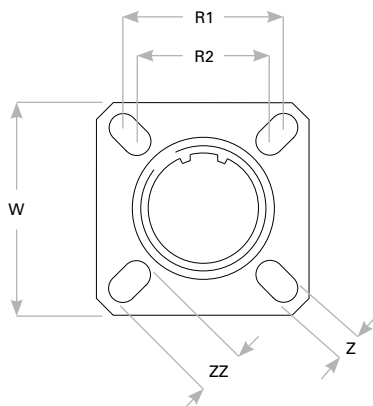
Prevent operator injury or connector damage by providing a safe place to stow and organize your unused cables. Protective covers are recommended to always keep stowage receptacles clean and dry, so they're ready for use when needed.

Note: See part builder (p. F-17) for additional kit options.

Stowage Receptacle Dimensions

Shell Size	Military Shell Size	W	ZZ	Z	C Thread Class 2A	R	F	P Max Rear Panel [†]	R1	R2	H
9	A	.938 (23.8)	.216 (5.5)	.128 (3.3)	.6250-0.1P-0.3L-TS	.822 (20.9)	.098 (2.5)	.234 (5.9)	.719 (18.3)	.594 (15.1)	.656 (16.7)
11	B	1.031 (26.2)	.194 (4.9)	.128 (3.3)	.7500-0.1P-0.3L-TS	.822 (20.9)	.098 (2.5)	.234 (5.9)	.812 (20.6)	.719 (18.3)	.796 (20.2)
13	C	1.125 (28.6)	.194 (4.9)	.128 (3.3)	.8750-0.1P-0.3L-TS	.822 (20.9)	.098 (2.5)	.234 (5.9)	.906 (23.0)	.812 (20.6)	.922 (23.4)
15	D	1.219 (31.0)	.173 (4.4)	.128 (3.3)	1.0000-0.1P-0.3L-TS	.822 (20.9)	.098 (2.5)	.234 (5.9)	.969 (24.6)	.906 (23.0)	1.047 (26.6)
17	E	1.312 (33.3)	.194 (4.9)	.128 (3.3)	1.1875-0.1P-0.3L-TS	.822 (20.9)	.098 (2.5)	.234 (5.9)	1.062 (27.0)	.969 (24.6)	1.219 (31.0)
19	F	1.438 (36.5)	.194 (4.9)	.128 (3.3)	1.2500-0.1P-0.3L-TS	.822 (20.9)	.098 (2.5)	.234 (5.9)	1.156 (29.4)	1.062 (27.0)	1.297 (32.9)
21	G	1.562 (39.7)	.194 (4.9)	.128 (3.3)	1.3750-0.1P-0.3L-TS	.791 (20.1)	.125 (3.2)	.234 (5.2)	1.250 (31.8)	1.156 (29.4)	1.422 (36.1)
23	H	1.688 (42.9)	.242 (6.1)	.154 (3.9)	1.5000-0.1P-0.3L-TS	.791 (20.1)	.125 (3.2)	.234 (5.2)	1.375 (34.9)	1.250 (31.8)	1.547 (39.3)
25	J	1.812 (46.0)	.242 (6.1)	.154 (3.9)	1.6250-0.1P-0.3L-TS	.791 (20.1)	.125 (3.2)	.234 (5.2)	1.500 (38.1)	1.375 (34.9)	1.672 (42.5)

Dimensions are in inches (mm). [†] Max panel thickness applies only to rear mount applications to ensure proper coupling clearance.



Panel Cutout

Kits with 03 accessory option will use R1 mounting hole positions.

Rev. 1302.1

T9 Series • Advanced Military & Aerospace Connectors



T9GE - 15 R1

- 
- 1 2 3
- 1 BASIC PART NUMBER**
- T9GE** Standard environmental gasket
- T9GS** RFI shielded gasket
- 2 SHELL SIZE**
- See Gasket Dimensions table below
- 3 MOUNTING HOLE**
- R1** Outer position
- R2** Inner position

Note: See part builder (p. F-17) for additional kit options.



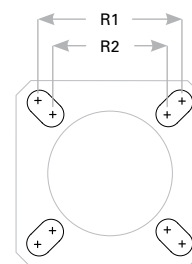
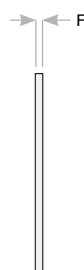
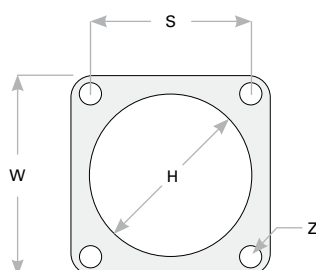
Environmentally seal your mounting point

Mounting gaskets will seal the mounting space between receptacles and a panel to maintain the environmental integrity of your enclosure. They may be used in either rear or front mount receptacle installations.

Gasket Dimensions

Shell Size	Military Shell Size	W	S	Z	H	F	Mounting Hole
9	A	.937 (23.8)	.719 (18.3)	.125 (3.2)	.687 (17.4)	.030 (.8)	R1
		.812 (20.6)	.595 (15.1)	.125 (3.2)	.562 (14.3)	.030 (.8)	R2
11	B	1.031 (26.2)	.812 (20.6)	.125 (3.2)	.772 (19.6)	.030 (.8)	R1
		.937 (23.8)	.719 (18.3)	.125 (3.2)	.687 (17.4)	.030 (.8)	R2
13	C	1.125 (28.6)	.906 (23.0)	.125 (3.2)	.937 (23.8)	.030 (.8)	R1
		1.031 (26.2)	.812 (20.6)	.125 (3.2)	.772 (19.6)	.030 (.8)	R2
15	D	1.250 (31.8)	.969 (24.6)	.125 (3.2)	1.063 (27.0)	.030 (.8)	R1
		1.125 (28.6)	.906 (23.0)	.125 (3.2)	.937 (23.8)	.030 (.8)	R2
17	E	1.343 (34.1)	1.062 (27.0)	.125 (3.2)	1.187 (30.1)	.030 (.8)	R1
		1.250 (31.8)	.969 (24.6)	.125 (3.2)	1.063 (27.0)	.030 (.8)	R2
19	F	1.467 (37.3)	1.156 (29.4)	.125 (3.2)	1.312 (33.3)	.030 (.8)	R1
		1.343 (34.1)	1.062 (27.0)	.125 (3.2)	1.187 (30.1)	.030 (.8)	R2
21	G	1.562 (39.7)	1.250 (31.8)	.125 (3.2)	1.437 (36.5)	.030 (.8)	R1
		1.467 (37.3)	1.156 (29.4)	.125 (3.2)	1.312 (33.3)	.030 (.8)	R2
23	H	1.703 (43.3)	1.375 (34.9)	.152 (3.9)	1.562 (39.7)	.030 (.8)	R1
		1.562 (39.7)	1.250 (31.8)	.125 (3.2)	1.437 (36.5)	.030 (.8)	R2
25	J	1.812 (46.0)	1.500 (38.1)	.152 (3.9)	1.600 (40.6)	.030 (.8)	R1
		1.703 (43.3)	1.375 (34.9)	.152 (3.9)	1.562 (39.7)	.030 (.8)	R2

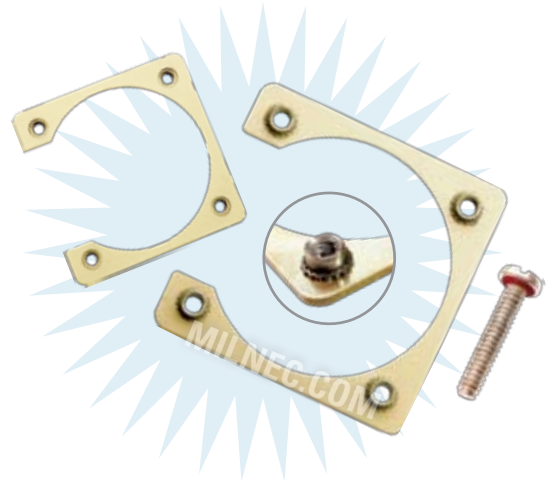
Dimensions are in inches (mm).



Rev. 1302.1

T9MB - 15 R1 - A

- 1 **BASIC PART NUMBER**
T9MB Mounting bracket, aluminum alloy with SST locking nuts
- 2 **SHELL SIZE**
See Bracket Dimensions table below
- 3 **MOUNTING HOLE**
R1 Outer position
R2 Inner position
- 4 **OPTIONAL FASTENER KIT** (OMIT FOR NONE)
A Self-sealing SST fillister head screws (4x)



Note: See part builder (p. F-17) for additional kit options.



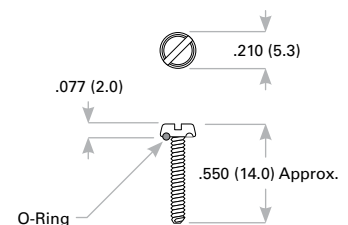
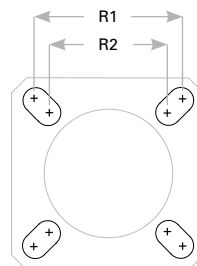
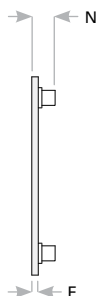
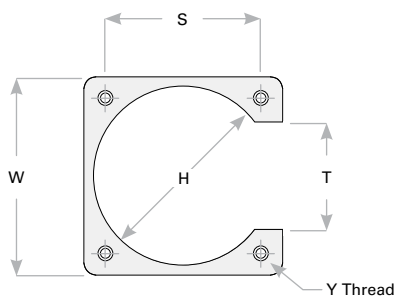
High-reliability mounting hardware

Mounting brackets with captive stainless steel locking nuts provide a safety measure to prevent loose fasteners from falling into susceptible areas, which may cause equipment failure. Optional sealing screws with O-rings will effectively seal the mounting holes on your enclosure from water ingress.

Bracket Dimensions

Shell Size	W	S	T	H	N	F	Mounting Hole	Screw Size	Y Thread
9	1.019 (25.9)	.719 (18.3)	.433 (11.0)	.720 (18.3)	.136 (3.5)	.040 (1.0)	R1	#4	4-40 UNJC-3B
	.880 (22.4)	.594 (15.1)	.308 (7.8)	.570 (14.5)	.136 (3.5)	.040 (1.0)	R2	#4	4-40 UNJC-3B
11	1.104 (28.0)	.812 (20.6)	.530 (13.5)	.855 (21.7)	.136 (3.5)	.040 (1.0)	R1	#4	4-40 UNJC-3B
	1.019 (25.9)	.719 (18.3)	.433 (11.0)	.720 (18.3)	.136 (3.5)	.040 (1.0)	R2	#4	4-40 UNJC-3B
13	1.198 (30.4)	.906 (23.0)	.624 (15.8)	.984 (25.0)	.136 (3.5)	.040 (1.0)	R1	#4	4-40 UNJC-3B
	1.104 (28.0)	.812 (20.6)	.530 (13.5)	.855 (21.7)	.136 (3.5)	.040 (1.0)	R2	#4	4-40 UNJC-3B
15	1.280 (32.5)	.969 (24.6)	.687 (17.4)	1.094 (27.8)	.136 (3.5)	.040 (1.0)	R1	#4	4-40 UNJC-3B
	1.198 (30.4)	.906 (23.0)	.624 (15.8)	.984 (25.0)	.136 (3.5)	.040 (1.0)	R2	#4	4-40 UNJC-3B
17	1.406 (35.7)	1.062 (27.0)	.780 (19.8)	1.220 (31.0)	.136 (3.5)	.040 (1.0)	R1	#4	4-40 UNJC-3B
	1.280 (32.5)	.969 (24.6)	.687 (17.4)	1.094 (27.8)	.136 (3.5)	.040 (1.0)	R2	#4	4-40 UNJC-3B
19	1.535 (39.0)	1.156 (29.4)	.874 (22.2)	1.345 (34.2)	.136 (3.5)	.040 (1.0)	R1	#4	4-40 UNJC-3B
	1.406 (35.7)	1.062 (27.0)	.780 (19.8)	1.220 (31.0)	.136 (3.5)	.040 (1.0)	R2	#4	4-40 UNJC-3B
21	1.665 (42.3)	1.250 (31.8)	.968 (24.6)	1.478 (37.5)	.136 (3.5)	.040 (1.0)	R1	#4	4-40 UNJC-3B
	1.535 (39.0)	1.156 (29.4)	.874 (22.2)	1.345 (34.2)	.136 (3.5)	.040 (1.0)	R2	#4	4-40 UNJC-3B
23	1.738 (44.1)	1.375 (34.9)	.907 (23.0)	1.483 (37.7)	.153 (3.9)	.040 (1.0)	R1	#6	6-32 UNJC-3B
	1.665 (42.3)	1.250 (31.8)	.968 (24.6)	1.478 (37.5)	.136 (3.5)	.040 (1.0)	R2	#4	4-40 UNJC-3B
25	1.891 (48.0)	1.500 (38.1)	1.125 (28.6)	1.658 (42.1)	.153 (3.9)	.040 (1.0)	R1	#6	6-32 UNJC-3B
	1.738 (44.1)	1.375 (34.9)	.907 (23.0)	1.483 (37.7)	.153 (3.9)	.040 (1.0)	R2	#6	6-32 UNJC-3B

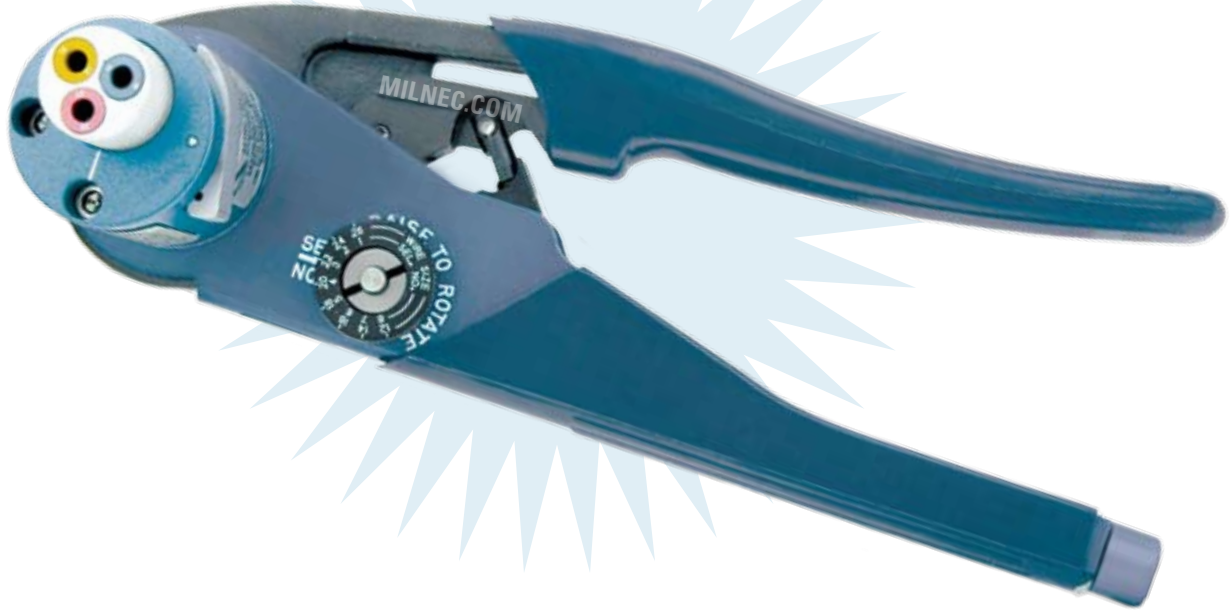
Dimensions are in inches (mm).



Rev. 1302.1

Hand Crimpers & Positioners

T9 Series • Advanced Military & Aerospace Connectors



Precision Hand Crimpers

A crimp tool provides reliable crimp termination of contacts for mission-critical applications. A hand crimper is suitable for contacts from size #12 to #22D. For production environments, pneumatic crimpers are also available.

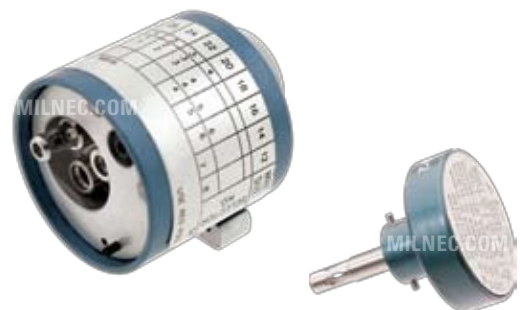
Our tools feature an eight impression crimp, which ensures maximum tensile strength between wire and contact. Their cycle controlled ratchets are consistent and accurate and do not permit half crimps, ensuring complete and precise crimping every time.

The tool frames have a built-in 8-step selector knob for easy adjustment of crimp depth to accommodate the size of wire being used. Data plates on positioners provide setting information specific to the size of wires and contacts being used.

There are a variety of crimp tools and positioners available to fit the various sized contacts within each connector series. To find the correct tool and positioner for your contacts, see the specific contact table for tooling part numbers.

Features & Benefits

- Eight impression precision crimp for tensile strength
- Adjustable crimp depth selector knob
- Accepts turret positioners for application versatility
- Suitable for all crimp contacts, #12 to #22D
- Pneumatic model available for production environments



Rev. 1302.1



H900 Soldering Station Kit

Our soldering station kit provides a complete solution for professionally terminating solder contacts to stranded or solid core wire.

Features & Benefits

- Temperature range 392° to 896°F (200° to 480°C)
- Adjustable temperature control dial with lock/set screw
- Idle temperature stability of ±1.8°F (1.0°C)
- Ceramic heating element and sensor ensure rapid heat-up temperature (30 seconds) and fast thermal recovery
- Celsius or Fahrenheit temperature setting
- Slender iron handles are insulated and ergonomically designed for ease and comfort
- ESD-safe design suitable for controlled environments
- 5 interchangeable tips suitable for connector solder contacts ranging from #0 to #22D

Note: The above lists standard options readily available in stock. Please consult an authorized distributor for full range of solder stations, re-work stations, specialty tips, and accessories.

Soldering Station Kit

Part Number	Kit Includes The Following Items
H900	120V / 60W soldering station, iron holder, cleaning sponge, 5 interchangeable tips, rosin-core lead solder, instructions

Replacement Tips

Part Number	For Contact Size	Description	Image
H900-6D	#16, #20, #22D	Chisel (1.6mm Tip)	
H900-B	#16, #20	Conical (0.5mm Tip)	
H900-2C	#16	45° Beveled (2mm Tip)	
H900-4C	#8, #12	45° Beveled (4mm Tip)	
H900-S3	#0, #4	Chisel (5.2mm Tip)	

Heat Gun

T9 Series • Advanced Military & Aerospace Connectors



TH1910E Professional Heat Gun

Our professional heat gun kit provides a complete solution for installing shrink boots. Interchangeable nozzles help to concentrate heat flow or to direct hot air evenly around a target while protecting sensitive equipment nearby.

Features & Benefits

- Temperature range 120° to 1,100°F (49° to 593°C)
- 3 interchangeable nozzle attachments
- Adjustable temperature control dial
- 3 stage switch to control airflow from 3.6 to 17.6 ft³/min
- Ergonomic design for ease and comfort

Note: The above lists standard options readily available in stock. Please consult an authorized distributor for full range of heat guns and specialized nozzle accessories.

Heat Gun Kit

Part Number	Kit Includes The Following Items
TH1910E	120V / 1,500W variable temperature heat gun, ring holder, and 3 interchangeable nozzles

Consult with authorized distributor for 220V, 230V, & 240V models suitable for your region.

Nozzle Attachments

Part Number	Description
TH101	10mm reduction nozzle
TH102	39mm reflector nozzle
TH103	13mm reflector nozzle



Rev. 1302.1

TB058 Banding Tool

The TB058 banding tool is the only tool needed to professionally install shielding termination bands to all Milnec EMI/RFI banding adapters. This simple hand tool positions, tightens, and trims the shield termination band with just a few easy steps for a foolproof, high-precision installation.

Features & Benefits

- One tool for all adapter sizes
- Ergonomic & lightweight: 1.18 lbs (0.5 kg)
- Tension range: 100 to 180 lbs (45.3 to 81.6 kg)

Banding Tool

Part Number	Kit Includes The Following Items
TB058	Banding tool for TB250 shield termination bands

Note: Please consult an authorized distributor for full range of pneumatic banding tools for high-volume production environments.



TB250 Shield Termination Band

The TB250 band will professionally attach shielding to Milnec EMI/RFI banding boot adapters of all sizes. The TB250 band can be quickly and reliably installed with the specially designed TB058 banding tool. Bands come pre-coiled for faster installation.

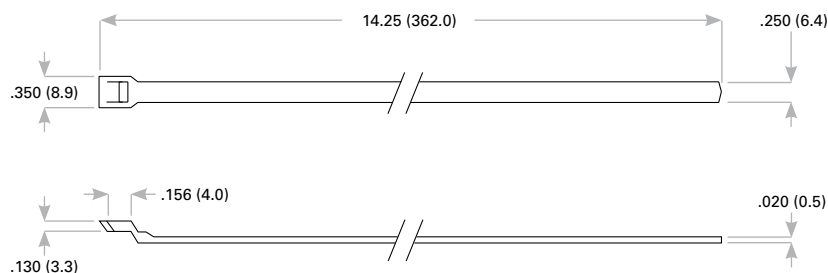
Features & Benefits

- Double-wrapped bands will accommodate diameters up to approximately 0.88 inches (22.4 mm)
- 300 series stainless steel single-piece construction



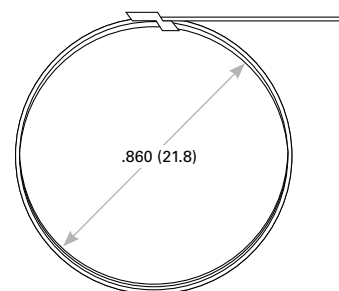
Shield Termination Band

Part Number	Kit Includes The Following Items
TB250	Single stainless steel shield termination band



Dimensions are in inches (mm).

Rev. 1302.1



Pre-coiled Band