



MILITARY & DEFENSE EDITION

TM Series
MIL-DTL-5015 Crimp
MILITARY STYLE CONNECTORS

- IP67 Rated Waterproof Connectors
- EMI-RFI Environmental Backshells
- Covers, Gaskets, Contacts, Tooling

Milnec Interconnect Systems

High-Performance Cylindrical Connectors

About Us

MILNEC INTERCONNECT SYSTEMS is a leader in the design, manufacture, and supply of high-performance cylindrical interconnect systems. From research stations in the Antarctic to spacecraft on the plains of Mars, our high-reliability connector systems conquer the most demanding environments. Milnec is a supplier to leading companies in 24 countries in the following industries:

- Military & Defense
- Aerospace & Space
- Railway & Mass Transit
- Industrial & Heavy Equipment
- Alternative Energy, Nuclear, Oil & Gas



Logistics Solutions for Global Applications

Global logistics and support means we deliver products on time every time to any destination. To support your immediate requirements, we have extensive inventories, making most systems readily available for today's compressed design and production schedules. On average, custom connector solutions made to your exact configuration ship within seven days from the time of order placement.

- Worldwide shipping (restricted to NATO countries only)
- Web access to inventory, prices, & delivery information
- A large stock of popular parts for greater availability
- Competitive pricing and short lead times
- Impeccable customer service & technical support

Milnec Interconnect Systems

3947 West Lincoln Highway #192
Downingtown, PA 19335

1-855-4MILNEC Toll Free
(1-855-464-5632)

technical-support@milnec.com

U.S. Military Cage Code: 6STX5

NAICS Code: 423690

High Reliability—Simplified

Just because your interconnect problem is complicated does not mean acquiring the solution has to be. Milnec connector systems and our "all-in-one" kits provide engineers the most complete and professional connector solutions with ease and technical clarity.

- Complete, high-reliability solutions
- Simple to understand technical data & configurations
- Online part builder tools, drawings, & documentation
- Field installable & serviceable



Performance With Environmental Responsibility

RoHS compliant products are available to support environmental responsibility and legislative conformity. Through simple modification codes, Milnec provides a wide variety of material options to easily provide customers with fully compliant and eco-friendly connector components.

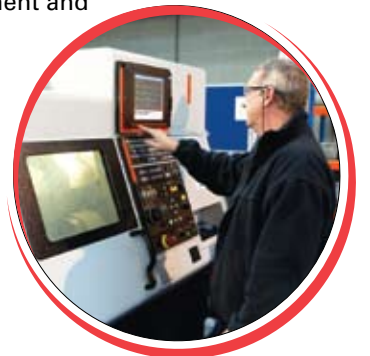
- RoHS compliant materials & finishes
- Simple material modification codes
- Lead-free solder contacts



Highest Manufacturing Quality

We invest in the finest equipment and modern production processes to ensure that our connectors will exceed your quality and performance expectations. Our production processes include advanced computer numerical control machining, cosmetic and metal finishing, heat treatment, and stainless steel passivation.

- Traceability on 100% of the parts
- Quick production lead times
- Quantity support from R&D to production
- "Just-in-time" delivery, kitting, & special packaging
- Rapid tooling & prototyping for custom designs



Rev. 1318.1

MIL-DTL-5015 Crimp Compliant Connectors

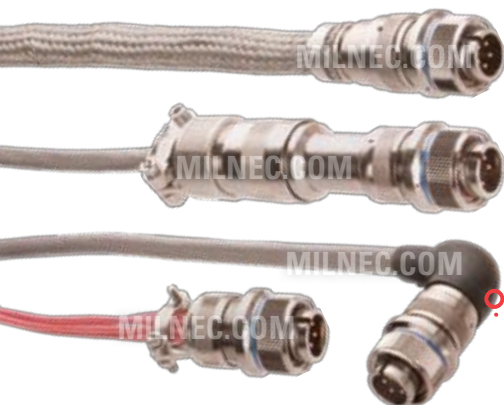
The TM Series of connectors is based on the popular MIL-DTL-5015 standard and is designed to meet or exceed all of the specifications for performance and durability. Traditional threaded coupling, crimp contacts, and 77 insert arrangements offer a high degree of interconnect design flexibility. In addition to the standards, the series features many specialty shell styles, backshells, RoHS approved finishes, and accessories unavailable in the mil-spec. This diverse component offering provides engineers with a wide range of options to match any application requiring a ruggedized, IP67 waterproof connector for signal and power in the harshest military environments.



Complete System Compatibility
TM Series connectors are fully compatible with all military and commercial MIL-DTL-5015 style connectors.

Complete IP67 Rated Waterproof Connector Kits

TM Series connectors can be easily configured as complete kits that include a full range of protective accessories for a reliable, IP67 rated environmental interconnect solution. Simply select the desired kit option on the part builder and your connector will come with all the matching sealing accessories you need for complete protection, right out of the box!



Full Environmental Sealing
Gaskets, protective covers, and mounting brackets with sealings screws will ensure complete IP67 installations.

EMI/RFI & Environmental Protection
The TM Series provides a wide range of backshell options for complete EMI/RFI and environmental protection for the most demanding military applications.



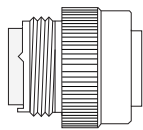
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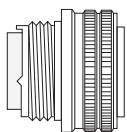
Component Overview

TM Series • MIL-DTL-5015 Crimp Type Connectors

Plugs

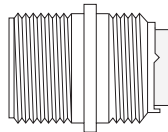


Plug (Self-Locking)
p. K-20

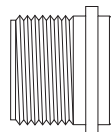


Plug
p. K-19

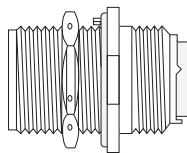
Receptacles



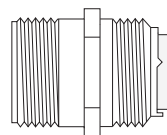
Wall Mount
p. K-21



Box Mount
p. K-22

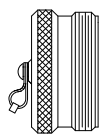


Jam Nut
p. K-23

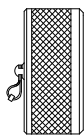


Cable Mount
p. K-24

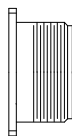
Covers



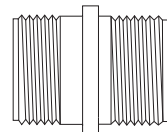
Plug Cover
p. K-51



Receptacle Cover
p. K-51

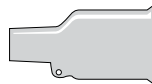


Stowage Receptacle
p. K-52



Thru-Bulkhead
p. K-25

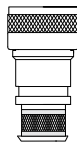
Backshells



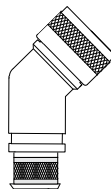
Shrink Boots
Straight
p. K-47



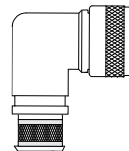
90°
p. K-48



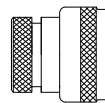
EMI/RFI Banding Boot Adapters
Straight
p. K-50



45°
p. K-50

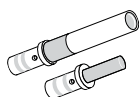


90°
p. K-50

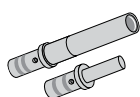


Boot Adapter
p. K-49

Contacts

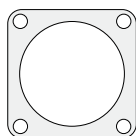


Standard
p. K-8

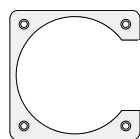


Thermocouple
p. K-8

Mounting

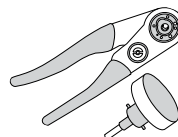


Mounting Gasket
p. K-53

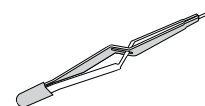


Mounting Bracket & Screws
p. K-54

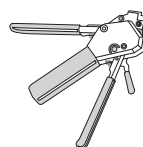
Tools



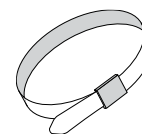
Crimper & Positioner
p. K-8



Insertion/Extraction
p. K-8



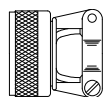
Banding Tool
p. K-58



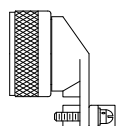
Band
p. K-58



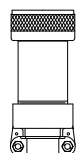
Heat Gun
p. K-57



Strain Relief
Straight
p. K-27



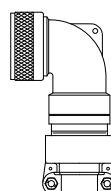
90°
p. K-28



Straight
p. K-29



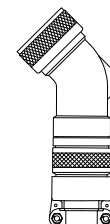
Environmental
45°
p. K-33



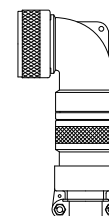
90°
p. K-35



Straight
p. K-38



45°
p. K-41



90°
p. K-43

Series Specifications

TM Series • MIL-DTL-5015 Crimp Type Connectors

Performance Specifications

Built to meet or exceed MIL-DTL-5015 specifications
Guaranteed fully compatible and interchangeable with respect to physical and performance characteristics with all existing MIL-DTL-5015 military and commercial 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): 35,000 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 connector air leakage rate shall not exceed 1 inch³/hr (4.55 x10⁻³ cm³/sec) at 30 psi (2.11 kg/cm²) pressure differential

Salt Spray Rating

See Materials & Finishes, p. K-9

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

Firewall (Class K)

Mated connectors shall prevent passing of a 2,000°F (1,093°C) flame through the connector for a minimum of 20 minutes in accordance with MIL-STD-1344, Method 1009

Physical Characteristics

Coupling

Threaded (A-Threads), single-start, 4 turns to couple

Coupling Torque

Engagement & Disengagement Force (max / min)

Shell Size 10: 2.21 ft-lb_f (3.0 N-m) / .11 ft-lb_f (.15 N-m)

Shell Size 12: 2.07 ft-lb_f (2.8 N-m) / .17 ft-lb_f (.23 N-m)

Shell Size 14: 4.35 ft-lb_f (5.9 N-m) / .26 ft-lb_f (.35 N-m)

Shell Size 16: 5.16 ft-lb_f (7.0 N-m) / .34 ft-lb_f (.46 N-m)

Shell Size 18: 5.90 ft-lb_f (8.0 N-m) / .43 ft-lb_f (.58 N-m)

Shell Size 20: 6.64 ft-lb_f (9.0 N-m) / .52 ft-lb_f (.70 N-m)

Shell Size 22: 7.82 ft-lb_f (10.6 N-m) / .59 ft-lb_f (.80 N-m)

Shell Size 24: 9.51 ft-lb_f (12.9 N-m) / .59 ft-lb_f (.80 N-m)

Shell Size 28: 12.32 ft-lb_f (16.7 N-m) / .68 ft-lb_f (.92 N-m)

Shell Size 32: 13.35 ft-lb_f (18.1 N-m) / .75 ft-lb_f (1.02 N-m)

Shell Size 36: 17.63 ft-lb_f (23.9 N-m) / .77 ft-lb_f (1.05 N-m)

Polarization

Single master key and keyway on top position of shell

Insert Arrangements

77 standard, custom inserts available

Insert Rotations

Normal polarization (N), plus 4 alternate insert rotational polarizations (W, X, Y, Z)

Endurance Characteristics

Coupling Cycles

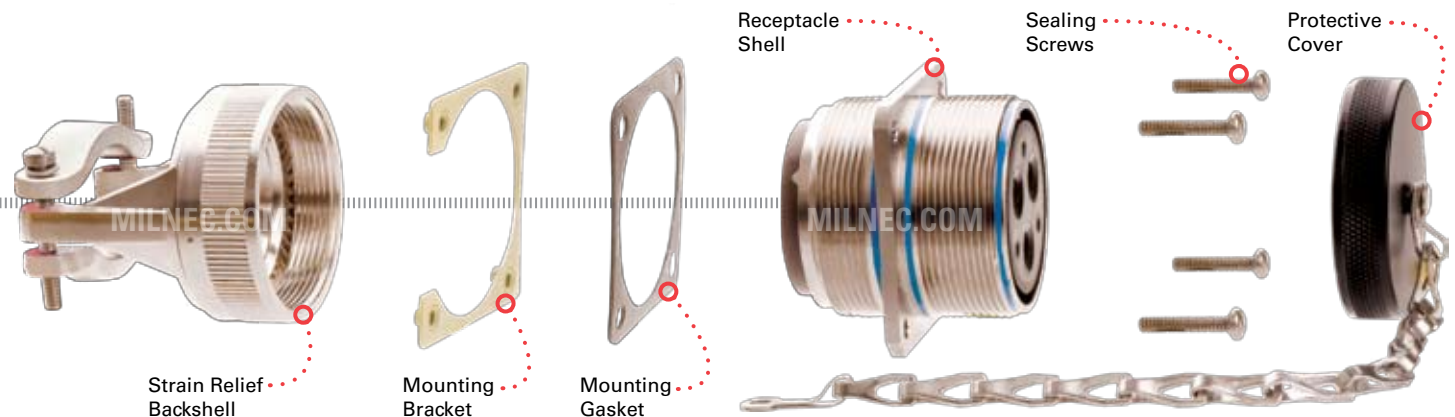
250 coupling cycles (minimum)

Shock

50g's, 11ms duration, three major axes,
10 microseconds maximum discontinuity

Vibration

Random vibration at 10 to 2,000Hz (15g's),
10 microseconds maximum discontinuity



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Material Characteristics

Shell

Aluminum, 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 Finish

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

(See p. K-9 for all available finishes)

Shell Conductivity

Maximum shell-to-shell conductivity potential drop shall not exceed 200 millivolts across assembly with overall DC resistance not greater than 0.05 Ω

Insert

Neoprene elastomer

Non-removable and mechanically bonded to shell

Protective Cover Chain

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

Sealing Grommet

Neoprene

O-Ring Seal

Neoprene or silicone

Mounting Gasket

Neoprene or silicone

Mounting Bracket

Aluminum alloy with SST locking nuts

Sealing Screws

SST steel with silicone O-rings

Contact Characteristics

Contact Design

Removable, rear-release crimp contacts

Contact Sizes

#0, #4, #8, #12, #16

Contacts

Copper alloy

Contact Plating

Silver alloy plate, 100 μ inches (2.54 μ m) minimum

Gold plate, 50 μ inches (1.27 μ m) minimum (#16 only)

Max Number of Contacts

1 to 52 standard, custom inserts available

Max Contact Resistance

6 milliohm maximum resistance

Max Voltage Drop

<50 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

150 amps (test current) at 68°F (20°C)

Max Operating Voltage

3,000 VAC (RMS) at sea level

Insulation Resistance

>5,000 megohms at 77°F (25°C)

Wire Size

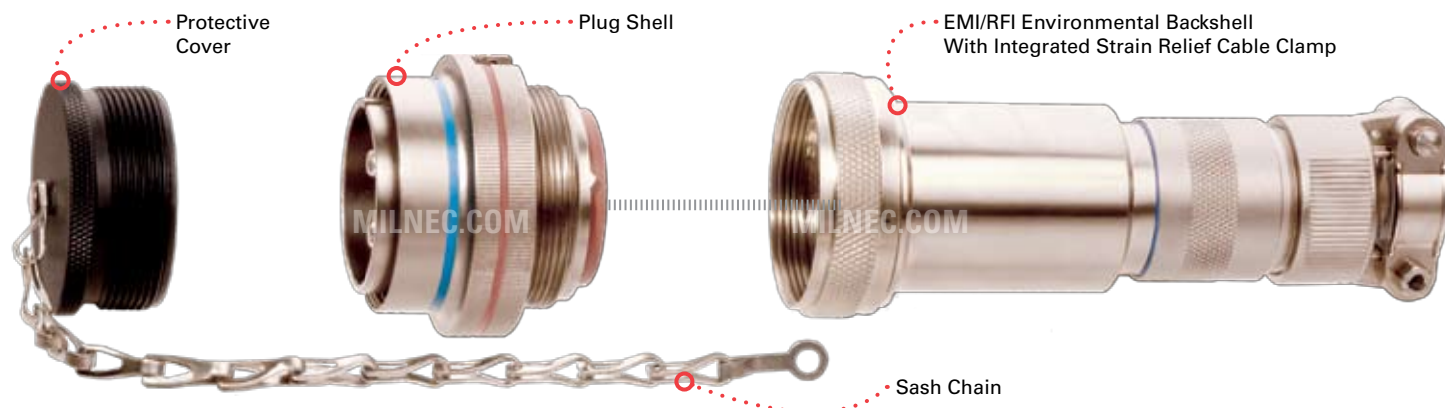
0 to 20 (AWG)

Wire Sealing Range

Designed for individual wire sealing

Sealing is only guaranteed if wires meet

MIL-W-5086 or within permitted ranges



Contact Specifications

TM Series • MIL-DTL-5015 Crimp Type Connectors

Wire & Crimp Dimensions

Contact Size	Wire Range		Potential Drop (Millivolts)	Crimp Well Diameter	Min Crimp Well Depth	Finished Wire Diameter Sealing Range		Contact Retention Min Axial Load Pounds (Newtons)
	AWG	Dia				Min	Max	
#16	16, 18, 20	.032-.050 (.81-1.29)	<50	.067 (1.70)	.250 (6.35)	.053 (1.35)	.103 (2.62)	25 (111.2)
#12	12, 14	.064-.080 (1.62-2.05)	<42	.100 (25.4)	.250 (6.35)	.097 (2.46)	.158 (4.01)	30 (133.4)
#8	8, *10	.102-.128 (2.58-3.26)	<26	.181 (4.6)	.485 (12.3)	.132 (3.4)	.255 (6.5)	50 (222.4)
#4	4, *6	1.16-.204 (4.11-5.18)	<23	.281 (7.1)	.485 (12.3)	.237 (6.0)	.370 (9.4)	60 (266.9)
#0	*2, 0	.257-.325 (6.54-8.25)	<21	.453 (11.5)	.580 (14.7)	.360 (9.1)	.550 (14.0)	75 (333.6)

Dimensions are in inches (mm) unless otherwise noted. * Contact reducing bushings are required for crimp barrel to accommodate 10, 6, and 2 AWG wire gauges. Bushings are ordered separately, see Contact Reducing Bushing table below.

Current Rating By Contact Size & Wire Size

Wire Size	Contact Size				
	#16/16S	#12	#8	#4	#0
20	7.5A				
16	13A				
14		17A			
12		23A			
10			33A		
8			46A		
6				60A	
4				80A	
2					100A
0					150A

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.

Torque Values for Accessory Threads

Shell Size	Recommended Torque	
	Min	Max
8	51 (5.8)	61 (6.9)
10	71 (8.0)	81 (9.2)
12	103 (11.6)	113 (12.8)
14	111 (12.5)	121 (13.7)
16	111 (12.5)	121 (13.7)
18	111 (12.5)	121 (13.7)
20	131 (14.8)	141 (15.9)
22	131 (14.8)	141 (15.9)
24	131 (14.8)	141 (15.9)

Units are in inch pounds (Newton meters).

Contact Reducing Bushings

Bushing Part Number	Contact Size	Wire Size	Bushing Inner Diameter	Bushing Outer Diameter
CRB6-10	#6	#10	.136 (3.5)	.225 (5.7)
CRB6-9	#6	#9	.155 (3.9)	.225 (5.7)
CRB6-8	#6	#8	.185 (4.7)	.225 (5.7)
CRB4-8	#4	#8	.185 (4.7)	.272 (6.9)
CRB4-6	#4	#6	.225 (5.7)	.272 (6.9)
CRB4-5	#4	#5	.250 (6.6)	.272 (6.9)
CRB1-6	#1	#6	.225 (5.7)	.396 (10.1)
CRB1-2	#1	#2	.359 (9.1)	.396 (10.1)
CRB0-2	#4/0	#2/0	.500 (12.7)	.629 (16.0)

Contact reducing bushings are required when crimping a smaller wire than the contact is designed for. Dimensions are in inches (mm) unless otherwise noted.

Torque Values For Cable Clamp Screws

Screw Size	Recommended Torque	
	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).

Contact Derating Specifications

Service Rating	Max Operating Voltage at Sea Level		Nominal Distance in Inches (mm)		Mechanical Spacing Nominal	Standard Sea Level Conditions		Pressure Altitude 50,000 ft		Pressure Altitude 70,000 ft	
	AC (RMS)	DC	Airspace	Creepage		Min Flashover Voltage AC (RMS)	Test Voltage AC (RMS)	Min Flashover Voltage AC (RMS)	Test Voltage AC (RMS)	Min Flashover Voltage AC (RMS)	Test Voltage AC (RMS)
Inst.	200	250	.0312 (.8)	.063 (1.6)	—	1,400	1,000	500	400	325	260
A	500	700	.063 (1.6)	.125 (3.2)	.063 (1.6)	2,800	2,000	800	600	450	360
D	900	1,250	.125 (3.2)	.188 (4.8)	.125 (3.2)	3,600	2,800	900	675	500	400
E	1,250	1,750	.188 (4.8)	.250 (6.4)	.188 (4.8)	4,500	3,500	1,000	750	550	440
B	1,750	2,450	.250 (6.4)	.313 (8.0)	.250 (6.4)	5,700	4,500	1,100	825	600	480
C	3,000	4,200	.313 (8.0)	1.000 (25.4)	.313 (8.0)	8,500	7,000	1,300	975	700	560

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.

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Standard Contacts, Sealing Plugs, & Tooling

Contact Size	Contact Style	Part Number	Wire Size (AWG)	Wire Range (Dia)	Jacket Strip Length	Crimping Tool	Positioner (Turret)	Die Set	Locator	Insertion Tool	Extraction Tool
#16	Pin	39M-29212	16, 18, 20	.032–.050 (.81–1.29)	.236 (6.0)	TK101 (Hand Crimper)	TP102	—	—	TN207	TX208
	Socket	39M-30218									
	Socket (Short Shell)*	39M-30217									
	Sealing Plug	39S-16									
#12	Pin	39M-29213	12, 14	.064–.080 (1.62–2.05)	.236 (6.0)			—	—	TN209	TX210
	Socket	39M-30219									
	Sealing Plug	39S-12									
#8	Pin	39M-29214	8, 10	.102–.128 (2.58–3.26)	.512 (13.0)		—	TD2302	TL2309	—	TX1501
	Socket	39M-30220									
	Sealing Plug	39S-08									
#4	Pin	39M-29215	4, 6	1.16–.204 (4.11–5.18)	.512 (13.0)	TU2301 (Pneumatic Crimper)	—	TD2304	TL2311	—	TX1502
	Socket	39M-30221									
	Sealing Plug	39S-04									
#0	Pin	39M-29216	0, 2	.257–.325 (6.54–8.25)	.630 (16.0)		—	TD2305	TL2313	—	TX1503
	Socket	39M-30222									
	Sealing Plug	39S-01									

Dimensions are in inches (mm) unless otherwise noted. * Size 16 short shell sockets are required on short shells designated as 10S, 10SL, 12S, 14S, and 16S. No short pins required.

Thermocouple Contacts & Tooling

Contact Size	Contact Style	Part Number	Wire Size (AWG)	Wire Range (Dia)	Jacket Strip Length	Crimping Tool	Positioner (Turret)	Insertion Tool	Extraction Tool				
#16 Alumel	Pin	39M-85455	16, 18, 20	.032–.050 (.81–1.29)	.236 (6.0)	TK101 (Hand Crimper)	TP102	TN207	TX208				
	Socket	39M-86463											
	Socket (Short Shell)*	39M-86511											
#16 Chromel	Pin	39M-85456	16, 18, 20	.032–.050 (.81–1.29)	.236 (6.0)								
	Socket	39M-86464											
	Socket (Short Shell)*	39M-86512											
#16 Constantan	Pin	39M-85454	16, 18, 20	.032–.050 (.81–1.29)	.236 (6.0)								
	Socket	39M-86462											
	Socket (Short Shell)*	39M-86510											
#16 Iron	Pin	39M-85457	16, 18, 20	.032–.050 (.81–1.29)	.236 (6.0)								
	Socket	39M-86465											
	Socket (Short Shell)*	39M-86513											
#12 Alumel	Pin	39M-85459	12, 14	.064–.080 (1.62–2.05)	.236 (6.0)								
	Socket	39M-86467											
#12 Chromel	Pin	39M-85460	12, 14	.064–.080 (1.62–2.05)	.236 (6.0)								
	Socket	39M-86468											
#12 Constantan	Pin	39M-85458	12, 14	.064–.080 (1.62–2.05)	.236 (6.0)					TN209	TX210		
	Socket	39M-86466											
#12 Iron	Pin	39M-85461	12, 14	.064–.080 (1.62–2.05)	.236 (6.0)								
	Socket	39M-86469											

Dimensions are in inches (mm) unless otherwise noted. * Size 16 short shell sockets are required on short shells designated as 10S, 10SL, 12S, 14S, and 16S. No short pins required.

Materials & Finishes

TM Series • MIL-DTL-5015 Crimp Type Connectors

TM Series Finishes

A connector's finish does more than simply provide good looks. The finish is the first line of defense for a connector. It provides enhanced corrosion resistance and can be made conductive to provide electrical continuity across connector shells for EMI/RFI shielding applications. Olive drab cadmium and electroless nickel are the standard

finishes for the TM Series. Both finishes offer durability and corrosion resistance and will match the aesthetic design of most applications. In addition to the standard finishes, a number of specialty finishes are available for the TM Series, including RoHS compliant finishes for environmentally friendly designs and stainless steel for firewall applications. ■

Standard TM Series Materials & Finishes

Finish Code	Finish	Electrically Conductive	RoHS Compliant	Appearance	Shell Material	Salt Spray Rating	Recommended Operating Temperature Range
W	Olive Drab Cadmium	✓		Drab Olive Green	Aluminum	500 hrs	-67° to +257°F (-55° to +125°C)
N	Electroless Nickel	✓	✓	Bright Metal	Aluminum	48 hrs	-67° to +392°F (-55° to +200°C)
K	Passivated (Firewall) *	✓	✓	Matte Metal	SST Steel	1,000 hrs	-67° to +392°F (-55° to +200°C)

* Supplied with firewall rated flame resistant inserts designed to protect bulkheads from the passage of a 2,000°F (1,093°C) flame through the connector for a minimum of 20 minutes.

Special TM Series Materials & Finishes *

Finish Code	Finish	Electrically Conductive	RoHS Compliant	Appearance	Shell Material	Salt Spray Rating	Recommended Operating Temperature Range
B	Hardcoat Anodize		✓	Grey to Black	Aluminum	336 hrs	-67° to +257°F (-55° to +125°C)
C	Zinc Cobalt	✓	✓	Black	Aluminum	125 hrs	-67° to +257°F (-55° to +125°C)
CC		✓	✓				
T	Hard Anodic		✓	Grey	Aluminum	500 hrs	-67° to +257°F (-55° to +125°C)
S	Passivated	✓	✓	Matte Metal			
KW	Olive Drab (Firewall) **	✓		Drab Olive Green	SST Steel	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.

** Supplied with firewall rated flame resistant inserts designed to protect bulkheads from the passage of a 2,000°F (1,093°C) flame through the connector for a minimum of 20 minutes.



Olive Drab Cadmium (Aluminum)
A standard finish in the TM Series of connectors. It is electrically conductive for applications that require EMI/RFI shielding. The finish has a 500 hour salt spray rating, making it excellent for corrosion resistance.

Passivated Stainless Steel (Firewall Rated)

The TM Series features firewall rated connectors that offer improved temperature capabilities for use in engine compartments or for any other application where the need to prevent emergency fire ingress is necessary. Firewall connectors are machined from passivated stainless steel and feature flame resistant inserts.



RoHS Compliant Parts

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.

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CORROSION RESISTANT CONNECTORS FOR THE LONG JOURNEY AHEAD



Durability & Reliability You Can Trust

TM Series high-performance crimp connectors and backshells come standard in aerospace-grade aluminum, offering strength, durability, and light weight. For the harshest marine or industrial environments, we also provide these components in passivated stainless steel with a 1,000 hour salt spray rating for ultimate corrosion resistance.



Part Builder

TM Series • MIL-DTL-5015 Crimp Type Connectors

How to Build Your TM 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 TM Series connector that designates, 1) TM Series wall mount receptacle, 2) electroless nickel finish over aluminum, 3) 25-35 insert arrangement, 4) pin contacts, 5) normal rotation, 6) EMI/RFI environmental backshell (dash number indicates backshell size), and 7) integrated accessory kit. ■

TM00 N 25-35 P N - R2(150) - 03

1 2 3 4 5 6 7

1 Series Shell Style

Standard Environmental Shells

TM06	Plug, p. K-19
TM09	Plug (self-locking), p. K-20
.....	
TM00	Wall mount receptacle, p. K-21
TM01	Cable mount receptacle, p. K-24
TM02	Box mount receptacle, p. K-22
TM07	Jam nut receptacle, p. K-23

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

2 Material & Finish

N	Electroless nickel (aluminum) 48 hr. dynamic salt spray rating
W	Olive drab cadmium (aluminum) 500 hr. dynamic salt spray rating

For complete materials and finishes options, including RoHS, see p. K-9.

3 Shell Size & Insert Arrangement

See Insert Arrangement Selection table, p. K-12

4 Contact Style

Standard Crimp Contacts

P	Pin
S	Socket
A	Pin insert, supplied without contacts
B	Socket insert, supplied without contacts

5 Insert Rotation

Normal Rotation

N	Normal
---	--------

Alternate Rotations

W, X, Y, Z	Alternate rotations
------------	---------------------

See Insert Arrangement Selection table on p. K-12
(not all rotations are available for every arrangement)

6 Optional Backshell Kit (Omit for None)

Strain Relief Backshell (Self-Locking)

B2	Straight, p. K-27
B4	90°, p. K-28

Environmental Backshell

E2 ()	Straight, p. K-29
E3 ()	45°, p. K-33
E4 ()	90°, p. K-35

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

EMI/RFI Environmental Backshell

R2 ()	Straight, p. K-38
R3 ()	45°, p. K-41
R4 ()	90°, p. K-43

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

Shrink Boot & Boot Adapter

K2	Straight boot, p. K-47, & adapter, p. K-49
K4	90° boot, p. K-48, & adapter, p. K-49

K2 supplied with recommended boot in 100 material, p. K-47.

K4 supplied with recommended boot in 100 material, p. K-48.

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

D2	Straight adapter, p. K-50, w/ boot & band
D4	90° adapter, p. K-50, w/ boot & band

Supplied with recommended straight boot in 100 material, p. K-47, and TB250 band, p. K-58.

7 Optional Accessory Kit (Omit for None)

01 For Plugs:

Protective cover, p. K-51

02 For Receptacles:

Protective cover, p. K-51 +
Mounting gasket, p. K-53

03 For Receptacles:

Protective cover, p. K-51 +
Mounting gasket, p. K-53 +
Mounting bracket, p. K-54
with (4x) sealing screws

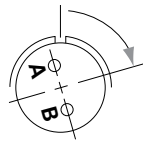
Kits with EMI/RFI Backshells will be supplied with TCGS RFI shielding gaskets.

Rev. 1318.1

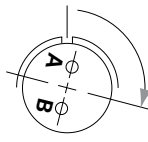
Selecting Your Insert Arrangement & Rotation

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 amount.

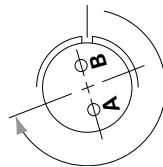
Rotations are designated at the time of ordering using rotation labels N (normal), W, X, Y, and Z. Some insert arrangements have limited or no alternate rotation options. Refer to the chart below for possible rotations for specific arrangements. ■



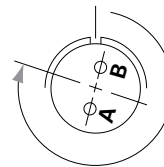
Position W



Position X



Position Y



Position Z

Looking into front face of pin insert or rear of socket insert.

Insert Arrangement Selection

Insert Arrangement	Total Contacts	Contact Size					Service Rating	Alternate Insert Rotation			
		#16	#12	#8	#4	#0		W	X	Y	Z
10S-2	1	1					A				
10SL-3	3	3					A				
10SL-4	2	2					A	63°			
12S-3	2	2					A	70°	145°	215°	290°
14S-2	4	4					Inst.		120°	240°	
14S-5	5	5					Inst.		110°		
14S-6	6	6					Inst.				
14S-7	3	3					A	90°	180°	270°	
16-9	4	2	2				A	35°	110°	250°	325°
16-10	3		3				A	90°	180°	270°	
16-11	2		2				A	35°	110°	250°	325°
16-12	1				1		A				
16S-1	7	7					A	80°			280°
16S-4	2	2					D	35°	110°	250°	325°
16S-8	5	5					A		170°	265°	
18-1	10	10					A/Inst.	70°	145°	215°	290°
18-4	4	4					D	35°	110°	250°	325°
18-8	8	7	1				A	70°			290°
18-9	7	5	2				Inst.	80°	110°	250°	280°
18-11	5		5				A		170°	265°	
18-13	4		3	1			A	80°	110°	250°	280°
20-2	1					1	D				
20-4	4		4				D	45°	110°	250°	
20-7	8	8					D/A	80°	110°	250°	280°
20-8	6	4		2			Inst.	80°	110°	250°	280°
20-14	5		3	2			A	80°	110°	250°	280°
20-15	7		7				A	80°			280°
20-16	9	7	2				A	80°	110°	250°	280°
20-17	6	1	5				A	90°	180°	270°	
20-18	9	6	3				A	35°	110°	250°	325°
20-19	3			3			A	90°	180°	270°	

* Option is unavailable if left blank.

(Continued on next page)

Insert Arrangements & Rotations

TM Series • MIL-DTL-5015 Crimp Type Connectors

Insert Arrangement Selection (Continued from previous page)

Insert Arrangement	Total Contacts	Contact Size					Service Rating	Alternate Insert Rotation			
		#16	#12	#8	#4	#0		W	X	Y	Z
20-22	6	3		3			A	80°	110°	250°	280°
20-24	4	2		2			A	35°	110°	250°	325°
20-27	14	14					A	35°	110°	250°	325°
20-29	17	17					A	80°			280°
20-33	11	11					A				
22-2	3			3			D	70°	145°	215°	290°
22-5	6	4	2				D	35°	110°	250°	325°
22-7	1					1	E				
22-9	3		3				E	70°	145°	250°	290°
22-14	19	19					A	80°	110°	250°	280°
22-18	8	8					D/A	80°	110°	250°	280°
22-19	14	14					A	80°	110°	250°	280°
22-22	4			4			A		110°	250°	
22-23	8		8				D/A	35°		250°	
24-2	7		7				D	80°			280°
24-4	4	3				1	D	80°	110°	250°	280°
24-6	8		8				D/A	80°	110°	250°	280°
24-7	16	14	2				A	80°	110°	250°	280°
24-10	7			7			A	80°			280°
24-11	9		6	3			A	35°	110°	250°	325°
24-12	5		3		2		A	80°	110°	250°	280°
24-20	11	9	2				D	80°	110°	250°	280°
24-22	4			4			D	45°	110°	250°	
24-28	24	24					Inst.	80°	110°	250°	280°
28-2	14	12	2				D	35°	110°	250°	325°
28-3	3			3			E	70°	145°	215°	290°
28-9	12	6	6				D	80°	110°	250°	280°
28-11	22	18	4				A	80°	110°	250°	280°
28-12	26	26					A	90°	180°	270°	
28-15	35	35					A	80°	110°	250°	280°
28-20	14	4	10				A	80°	110°	250°	280°
28-21	37	37					A	80°	110°	250°	280°
28-22	6	3			3		D	70°	145°	250°	290°
32-1	5		3			2	E/D	80°	110°	250°	280°
32-2	5	2			3		E	70°	145°	215°	290°
32-6	23	16	2	3	2		A	80°	110°	250°	280°
32-7	35	28	7				Inst./A	80°	125°	235°	280°
32-17	4				4		D	45°	110°	250°	
32-63	5				5		D				
36-3	6		3			3	D	70°	145°	215°	290°
36-5	4					4	A		120°	240°	
36-6	6				4	2	A	35°	110°	250°	325°
36-7	47	40	7				A	80°	110°	250°	280°
36-9	31	14	14	2	1		A	80°	125°	235°	280°
36-10	48	48					A	80°	125°	235°	280°
36-52	52	52					A				

* Option is unavailable if left blank.

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BRING OUT THE BIG GUNS



Power & Signal Connectors for Big Jobs

When you need signal and power in the same connector, Milnec TM Series crimp connectors are the perfect choice. TM connectors can handle up to 150A, and are built from heavy duty materials to ensure reliability in the harshest environments. When you are faced with a tough interconnect application, be sure to choose Milnec.



Insert Arrangement Drawings

TM Series • MIL-DTL-5015 Crimp Type Connectors

Arrangement
Service Rating
Number of Contacts



10S-2
A
1 x #16



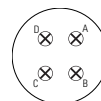
10SL-3
A
3 x #16



10SL-4
A
2 x #16

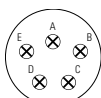


12S-3
A
2 x #16

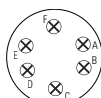


14S-2
Inst.
4 x #16

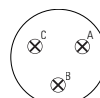
Arrangement
Service Rating
Number of Contacts



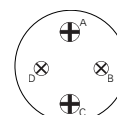
14S-5
Inst.
5 x #16



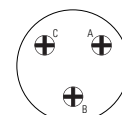
14S-6
Inst.
6 x #16



14S-7
A
3 x #16

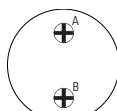


16-9
A
2 x #12
2 x #16



16-10
A
3 x #12

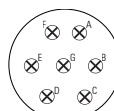
Arrangement
Service Rating
Number of Contacts



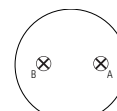
16-11
A
2 x #12



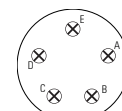
16-12
A
1 x #4



16S-1
A
7 x #16

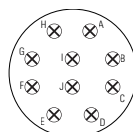


16S-4
D
2 x #16

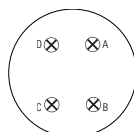


16S-8
A
5 x #16

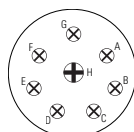
Arrangement
Service Rating
Number of Contacts



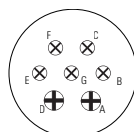
18-1
B,C,F,G=A; Bal.=Inst.
10 x #16



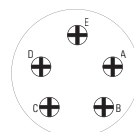
18-4
D
4 x #16



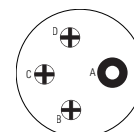
18-8
A
1 x #12
7 x #16



18-9
Inst.
2 x #12
5 x #16

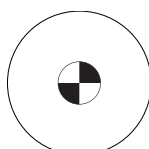


18-11
A
5 x #12

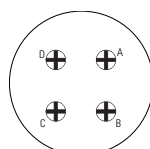


18-13
A
1 x #8
3 x #12

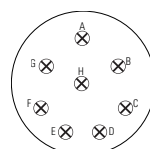
Arrangement
Service Rating
Number of Contacts



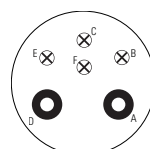
20-2
D
1 x #0



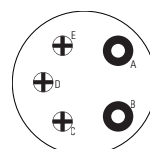
20-4
D
4 x #12



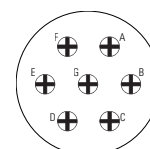
20-7
A,B,H,G=D; C,D,E,F=A
8 x #16



20-8
Inst.
2 x #8
4 x #16



20-14
A
2 x #8
3 x #12



20-15
A
7 x #12

Contact Legend #0 #4 #8 #10 #12 #16

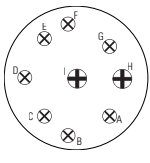
(Continued on next page)

Rev. 1318.1

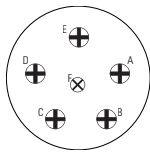
Insert Arrangement Drawings

TM Series • MIL-DTL-5015 Crimp Type Connectors

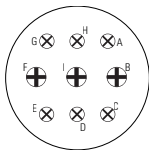
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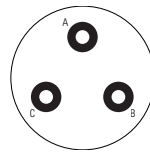
20-16
A
2 x #12
7 x #16



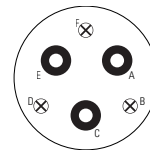
20-17
A
5 x #12
1 x #16



20-18
A
3 x #12
6 x #16

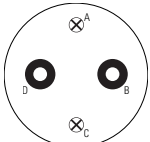


20-19
A
3 x #8

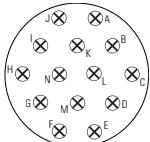


20-22
A
3 x #8
3 x #16

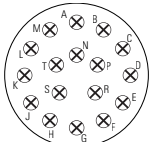
Arrangement
Service Rating
Number of Contacts



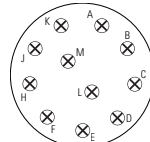
20-24
A
2 x #8
2 x #16



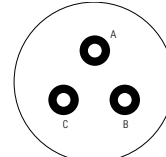
20-27
A
14 x #16



20-29
A
17 x #16

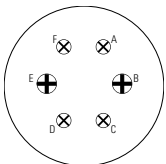


20-33
A
11 x #16

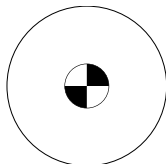


22-2
D
3 x #8

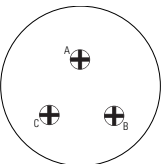
Arrangement
Service Rating
Number of Contacts



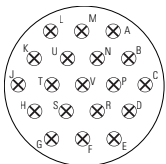
22-5
D
2 x #12
4 x #16



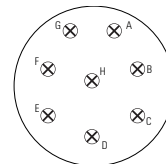
22-7
E
1 x #0



22-9
E
3 x #12

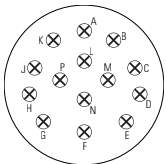


22-14
A
19 x #16

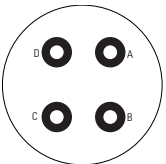


22-18
A,B,F,G,H=D; C,D,E=A
8 x #16

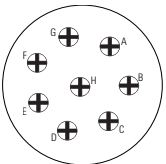
Arrangement
Service Rating
Number of Contacts



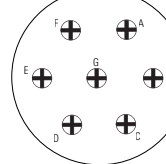
22-19
A
14 x #16



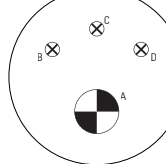
22-22
A
4 x #8



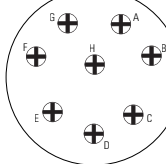
22-23
H=D; Bal.=A
8 x #12



24-2
D
7 x #12

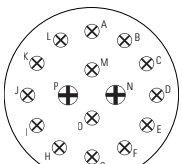


24-4
D/A
1 x #0
3 x #16

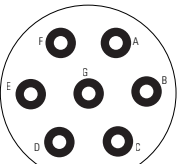


24-6
A,G,H=D; Bal.=A
8 x #12

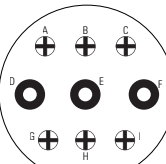
Arrangement
Service Rating
Number of Contacts



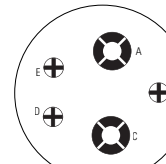
24-7
A
2 x #12
14 x #16



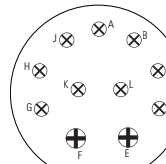
24-10
A
7 x #8



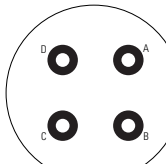
24-11
A
3 x #8
6 x #12



24-12
A
2 x #4
3 x #12



24-20
D
2 x #12
9 x #16



24-22
D
4 x #8

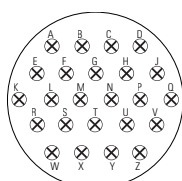
Arrangement
Service Rating
Number of Contacts

Insert Arrangement Drawings

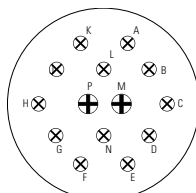
TM Series • MIL-DTL-5015 Crimp Type Connectors

(Continued from previous page)

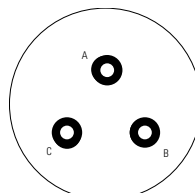
Arrangement
Service Rating
Number of Contacts



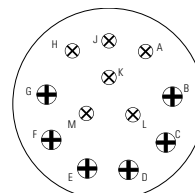
24-28
Inst.
24 x #16



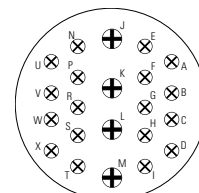
28-2
D
2 x #12
12 x #16



28-3
E
3 x #8

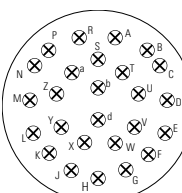


28-9
D
6 x #12
6 x #16

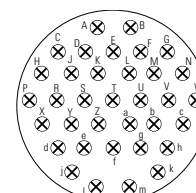


28-11
A
4 x #12
18 x #16

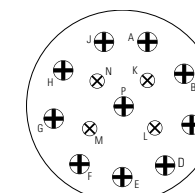
Arrangement
Service Rating
Number of Contacts



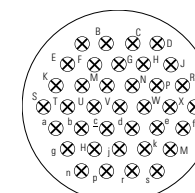
28-12
A
26 x #16



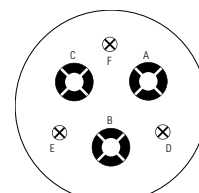
28-15
A
35 x #16



28-20
A
10 x #12
4 x #16

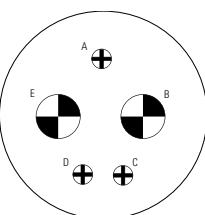


28-21
A
37 x #16

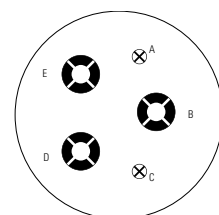


28-22
D
3 x #4
3 x #16

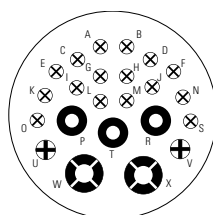
Arrangement
Service Rating
Number of Contacts



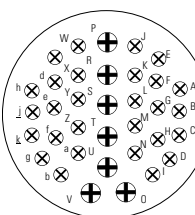
32-1
A=E; B,C,D,E=D
2 x #0
3 x #12



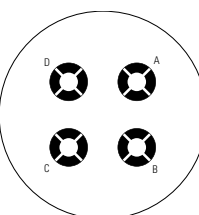
32-2
E
3 x #4
2 x #16



32-6
A
2 x #4; 3 x #8
2 x #12; 16 x #16

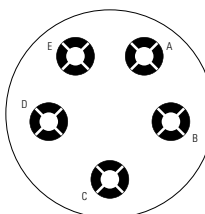


32-7
A,B,H,J=Inst.; Bal.=A
7 x #12
28 x #16

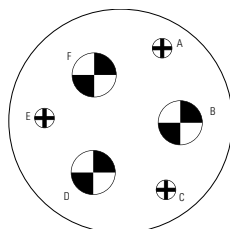


32-17
D
4 x #4

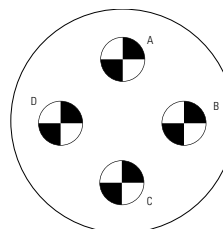
Arrangement
Service Rating
Number of Contacts



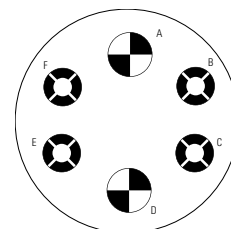
32-63
D
5 x #4



36-3
D
3 x #0
3 x #12



36-5
A
4 x #0



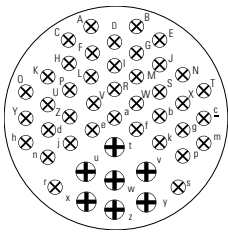
36-6
A
2 x #0
4 x #4

Contact Legend #0 #4 #8 #10 #12 #16

(Continued on next page)

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(Continued from previous page)

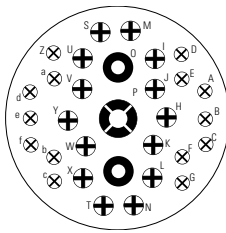


36-7

A

7 x #12

40 x #16

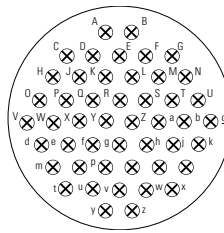


36-9

A

1 x #4; 2 x #8

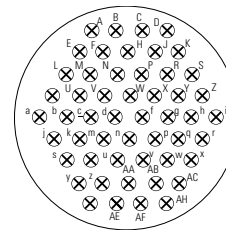
14 x #12; 14 x #16



36-10

A

48 x #16



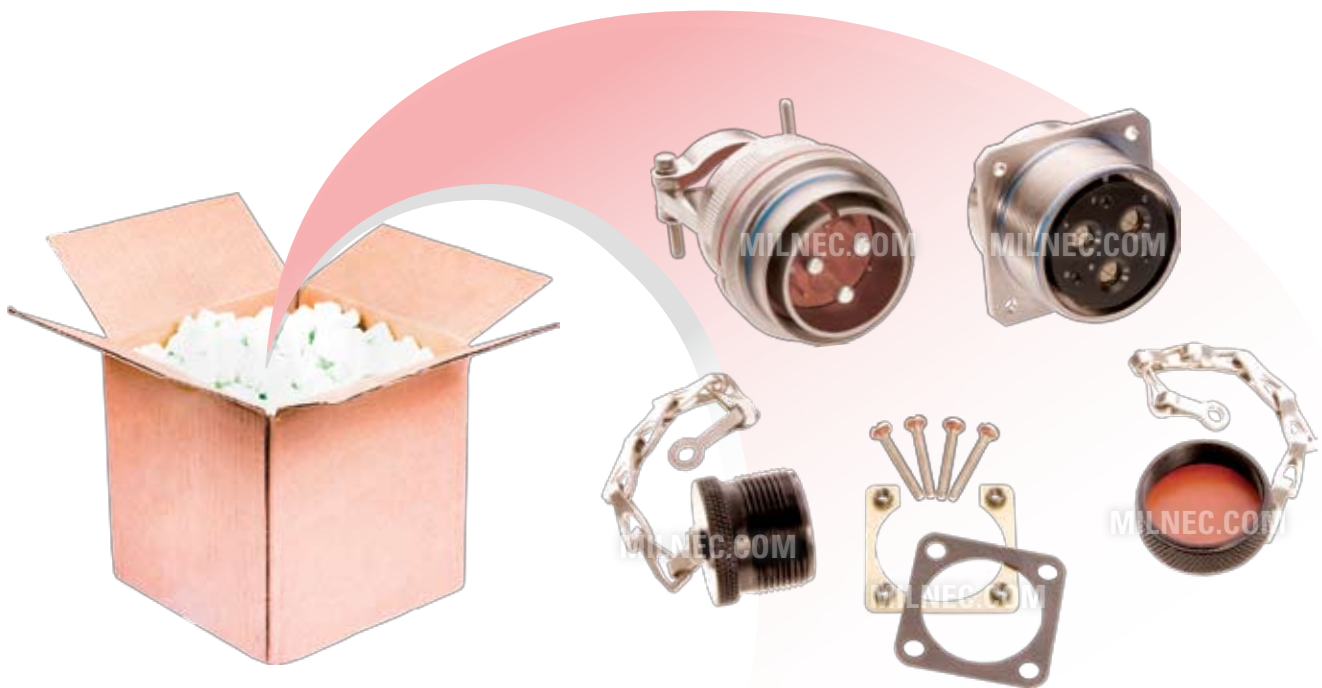
36-52

A

52 x #16

Arrangement
Service Rating
Number of Contacts

OUT OF THE BOX SOLUTIONS



Complete Solutions Right Out of the Box

Milnec makes ordering professional connector solutions easy! Our simple part builders enable you to configure a custom connector solution with everything you need, including protective covers, sealing gaskets, and mounting hardware with sealing screws.



Plug

TM Series • MIL-DTL-5015 Crimp Type Connectors



TM06 Cross Reference & Compatibility

Compatible Brands	Equivalent	Mates
MIL-DTL-5015 Crimp	MS3456	MS3450, MS3451, MS3452, MS3454
Aero Electric	AE556	AE550, AE551, AE552, AE554
Amphenol / Matrix	9446	9440, 9441, 9442, 9444
J-Tech / Conesys	DC62, DC63	DC60, DC61
ITT Cannon	CV3456	CV3450, CV3451, CV3452, CV3454

TM06 N 28-22 P N - R2(055) - 01

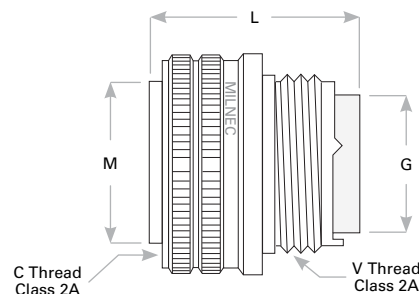
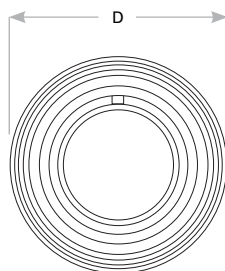
- 1 **BASIC PART NUMBER**
TM06 Plug
- 2 **MATERIAL & FINISH**
N Aluminum, electroless nickel
W Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. K-12
- 4 **CONTACT STYLE**
P Pin
S Socket
- 5 **INSERT ROTATION**
N Normal or W, X, Y, Z, see p. K-12 for availability
- 6 **OPTIONAL BACKSHELL KIT (OMIT FOR NONE)**
B2 Straight strain relief (self-locking), p. K-27
R2() Straight EMI/RFI environmental, p. K-38
(Add dash number for appropriate shell size, see p. K-38)
- 7 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
01 Protective cover

Note: See part builder (p. K-11) for additional kit options.

Plug Dimensions

Shell Size	D	C Thread Class 2A	L Max		M	G	V Thread Class 2A
			#12, #16 Contacts	#0, #4, #8 Contacts			
10SL	.969 (24.6)	.6250-24 UNEF	2.031 (51.6)	-	.441 (11.2)	.405 (10.3)	.6250-24 UNEF
12S	1.062 (27.0)	.7500-20 UNEF	2.031 (51.6)	-	.550 (14.0)	.549 (13.9)	.7500-20 UNEF
14S	1.156 (29.4)	.8750-20 UNEF	2.031 (51.6)	-	.670 (17.0)	.665 (16.9)	.8750-20 UNEF
16S	1.250 (31.8)	1.0000-20 UNEF	2.031 (51.6)	-	.800 (20.3)	.790 (20.1)	1.0000-20 UNEF
18	1.344 (34.1)	1.1250-18 UNEF	2.125 (54.0)	2.500 (63.5)	.925 (23.5)	.869 (22.1)	1.0625-18 UNEF
20	1.469 (37.3)	1.2500-18 UNEF	2.125 (54.0)	2.500 (63.5)	1.045 (26.5)	.994 (25.2)	1.1875-18 UNEF
22	1.594 (40.5)	1.3750-18 UNEF	2.125 (54.0)	2.500 (63.5)	1.170 (29.7)	1.119 (28.4)	1.3125-18 UNEF
24	1.719 (43.7)	1.5000-18 UNS	2.125 (54.0)	2.500 (63.5)	1.295 (32.9)	1.244 (31.6)	1.4375-18 UNEF
28	1.969 (50.0)	1.7500-18 UNS	2.125 (54.0)	2.500 (63.5)	1.515 (38.5)	1.465 (37.2)	1.7500-18 UNS
32	2.219 (56.4)	2.0000-18 UNS	2.125 (54.0)	2.500 (63.5)	1.765 (44.8)	1.715 (43.6)	2.0000-18 UNS
36	2.469 (62.7)	2.2500-16 UNS	2.125 (54.0)	2.500 (63.5)	1.975 (50.2)	1.930 (49.0)	2.2500-16 UN

Dimensions are in inches (mm).



Rev. 1318.1

TM09 N 28-22 P N - R2(055) - 01



- 1 **BASIC PART NUMBER**
TM09 Plug (self-locking)
- 2 **MATERIAL & FINISH**
N Aluminum, electroless nickel
W Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. K-12
- 4 **CONTACT STYLE**
P Pin
S Socket
- 5 **INSERT ROTATION**
N Normal or W, X, Y, Z, see p. K-12 for availability
- 6 **OPTIONAL BACKSHELL KIT** (OMIT FOR NONE)
B2 Straight strain relief (self-locking), p. K-27
R2() Straight EMI/RFI environmental, p. K-38
(Add dash number for appropriate shell size, see p. K-38)
- 7 **OPTIONAL ACCESSORY KIT** (OMIT FOR NONE)
01 Protective cover

Note: See part builder (p. K-11) for additional kit options.

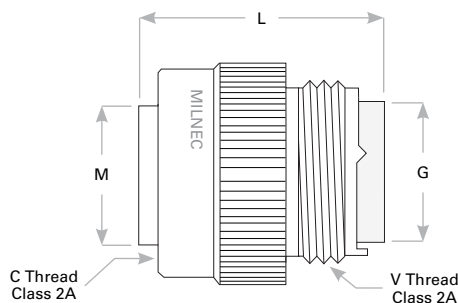
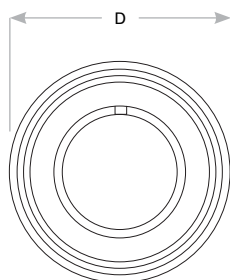
TM09 Compatibility

Compatible Brands	Mates
MIL-DTL-5015 Crimp	MS3450, MS3451, MS3452, MS3454
Aero Electric	AE550, AE551, AE552, AE554
Amphenol / Matrix	9440, 9441, 9442, 9444
J-Tech / Conesys	DC60, DC61
ITT Cannon	CV3450, CV3451, CV3452, CV3454

Plug Dimensions

Shell Size	D	C Thread Class 2A	L Max		M	G	V Thread Class 2A
			#12, #16 Contacts	#0, #4, #8 Contacts			
10SL	1.088 (27.6)	.6250-24 UNEF	1.510 (38.4)	-	.441 (11.2)	.405 (10.3)	.6250-24 UNEF
12S	1.213 (30.8)	.7500-20 UNEF	1.510 (38.4)	-	.550 (14.0)	.549 (13.9)	.7500-20 UNEF
14S	1.358 (34.5)	.8750-20 UNEF	1.510 (38.4)	-	.670 (17.0)	.665 (16.9)	.8750-20 UNEF
16S	1.463 (37.2)	1.0000-20 UNEF	1.510 (38.4)	-	.800 (20.3)	.790 (20.1)	1.0000-20 UNEF
18	1.588 (40.3)	1.1250-18 UNEF	1.850 (47.0)	2.500 (63.5)	.925 (23.5)	.869 (22.1)	1.0625-18 UNEF
20	1.713 (43.5)	1.2500-18 UNEF	1.850 (47.0)	2.500 (63.5)	1.045 (26.5)	.994 (25.2)	1.1875-18 UNEF
22	1.788 (45.4)	1.3750-18 UNEF	1.850 (47.0)	2.500 (63.5)	1.170 (29.7)	1.119 (28.4)	1.3125-18 UNEF
24	1.963 (49.9)	1.5000-18 UNEF	1.850 (47.0)	2.500 (63.5)	1.295 (32.9)	1.244 (31.6)	1.4375-18 UNEF
28	2.213 (56.2)	1.7500-18 UNS	1.850 (47.0)	2.500 (63.5)	1.515 (38.5)	1.465 (37.2)	1.7500-18 UNS
32	2.463 (62.6)	2.0000-18 UNS	1.850 (47.0)	2.500 (63.5)	1.765 (44.8)	1.715 (43.6)	2.0000-18 UNS
36	2.713 (68.9)	2.2500-16 UNS	1.850 (47.0)	2.500 (63.5)	1.975 (50.2)	1.930 (49.0)	2.2500-16 UN

Dimensions are in inches (mm).



Wall Mount Receptacle

TM Series • MIL-DTL-5015 Crimp Type Connectors



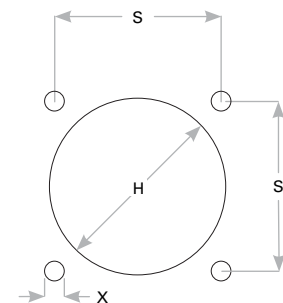
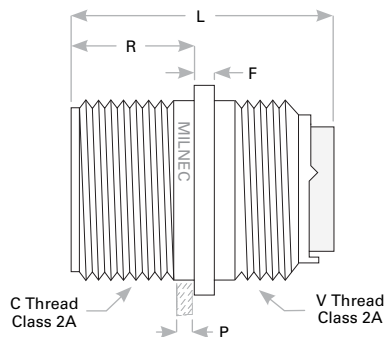
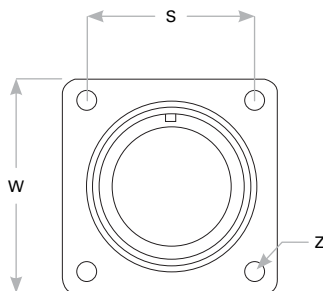
TM00 Cross Reference & Compatibility

Compatible Brands	Equivalent	Mates
MIL-DTL-5015 Crimp	MS3450	MS3456, MS3459
Aero Electric	AE550	AE556, AE559
Amphenol / Matrix	9440	9446, 9816
J-Tech / Conesys	DC60, DC61	DC62, DC63
ITT Cannon	CV3450	CV3456, CV3459

Receptacle Dimensions

Shell Size	W	Z	C Thread Class 2A	L Max		R	F	V Thread Class 2A	P Max Rear Panel [†]	S	X	H
				#12, #16 Contacts	#0, #4, #8 Contacts							
10SL	1.000 (25.4)	.120 (3.0)	.6250-24 UNEF	2.031 (51.6)	-	.562 (14.3)	.083 (2.1)	.6250-24 UNEF	.125 (3.2)	.719 (18.3)	.120 (3.1)	.688 (17.5)
12S	1.094 (27.8)	.120 (3.0)	.7500-20 UNEF	2.031 (51.6)	-	.562 (14.3)	.083 (2.1)	.7500-20 UNEF	.125 (3.2)	.812 (20.6)	.120 (3.1)	.812 (20.6)
14S	1.188 (30.2)	.120 (3.0)	.8750-20 UNEF	2.031 (51.6)	-	.562 (14.3)	.083 (2.1)	.8750-20 UNEF	.125 (3.2)	.906 (23.0)	.120 (3.1)	.938 (23.8)
16S	1.281 (32.5)	.120 (3.0)	1.0000-20 UNEF	2.031 (51.6)	-	.562 (14.3)	.083 (2.1)	1.0000-20 UNEF	.125 (3.2)	.969 (24.6)	.120 (3.1)	1.062 (27.0)
18	1.375 (34.9)	.120 (3.0)	1.1250-18 UNEF	2.125 (54.0)	2.500 (63.5)	.750 (19.1)	.125 (3.2)	1.0625-18 UNEF	.125 (3.2)	1.062 (27.0)	.120 (3.1)	1.188 (30.2)
20	1.500 (38.1)	.120 (3.0)	1.2500-18 UNEF	2.125 (54.0)	2.500 (63.5)	.750 (19.1)	.125 (3.2)	1.1875-18 UNEF	.125 (3.2)	1.156 (29.4)	.120 (3.1)	1.312 (33.3)
22	1.625 (41.3)	.120 (3.0)	1.3750-18 UNEF	2.125 (54.0)	2.500 (63.5)	.750 (19.1)	.125 (3.2)	1.3125-18 UNEF	.125 (3.2)	1.250 (31.8)	.120 (3.1)	1.438 (36.5)
24	1.750 (44.5)	.147 (3.7)	1.5000-18 UNEF	2.125 (54.0)	2.500 (63.5)	.812 (20.6)	.125 (3.2)	1.4375-18 UNEF	.125 (3.2)	1.375 (34.9)	.147 (3.7)	1.562 (39.7)
28	2.000 (50.8)	.147 (3.7)	1.7500-18 UNS	2.125 (54.0)	2.500 (63.5)	.812 (20.6)	.125 (3.2)	1.7500-18 UNS	.125 (3.2)	1.562 (39.7)	.147 (3.7)	1.812 (46.0)
32	2.250 (57.2)	.173 (4.4)	2.0000-18 UNS	2.125 (54.0)	2.500 (63.5)	.875 (22.2)	.125 (3.2)	2.0000-18 UNS	.125 (3.2)	1.750 (44.5)	.173 (4.4)	2.062 (52.4)
36	2.500 (63.5)	.173 (4.4)	2.2500-16 UN	2.125 (54.0)	2.500 (63.5)	.875 (22.2)	.125 (3.2)	2.2500-16 UN	.125 (3.2)	1.938 (49.2)	.173 (4.4)	2.312 (58.7)

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



Panel Cutout

TM00 N 28-22 S N - R2(055) - 03

- 1 **BASIC PART NUMBER**
TM00 Wall mount receptacle
- 2 **MATERIAL & FINISH**
N Aluminum, electroless nickel
W Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. K-12
- 4 **CONTACT STYLE**
P Pin
S Socket
- 5 **INSERT ROTATION**
N Normal or W, X, Y, Z, see p. K-12 for availability
- 6 **OPTIONAL BACKSHELL KIT (OMIT FOR NONE)**
B2 Straight strain relief (self-locking), p. K-27
R2() Straight EMI/RFI environmental, p. K-38
(Add dash number for appropriate shell size, see p. K-38)
- 7 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
02 Protective cover + mounting gasket
03 02 kit + mounting bracket + sealing screws

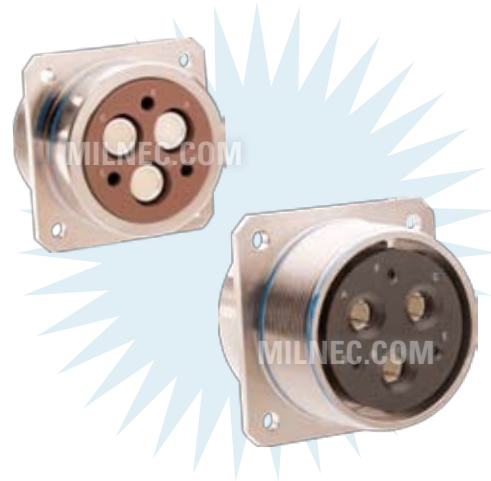
Note: See part builder (p. K-11) for additional kit options.

Box Mount Receptacle

TM Series • MIL-DTL-5015 Crimp Type Connectors

TM02 N 28-22 S N - 03

- 1 **BASIC PART NUMBER**
TM02 Box mount receptacle
- 2 **MATERIAL & FINISH**
N Aluminum, electroless nickel
W Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. K-12
- 4 **CONTACT STYLE**
P Pin
S Socket
- 5 **INSERT ROTATION**
N Normal or W, X, Y, Z, see p. K-12 for availability
- 6 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
02 Protective cover + mounting gasket
03 02 kit + mounting bracket + sealing screws



TM02 Cross Reference & Compatibility

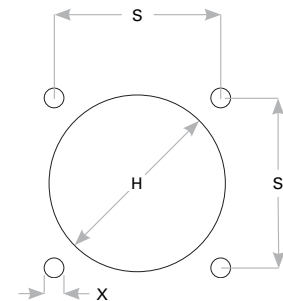
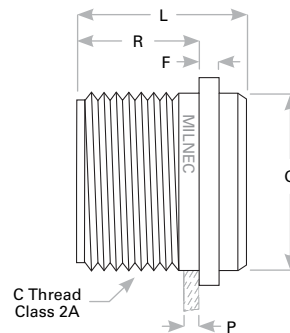
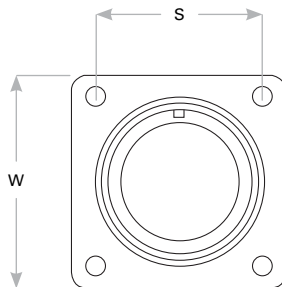
Compatible Brands	Equivalent	Mates
MIL-DTL-5015 Crimp	MS3452	MS3456, MS3459
Aero Electric	AE552	AE556, AE559
Amphenol / Matrix	9442	9446, 9816
J-Tech / Conesys	—	DC62, DC63
ITT Cannon	CV3452	CV3456, CV3459

Note: See part builder (p. K-11) for additional kit options.

Receptacle Dimensions

Shell Size	W	C Thread Class 2A	L Max		R	F	G	P Max Rear Panel†	S	X	H
			#12, #16 Contacts	#0, #4, #8 Contacts							
10SL	1.000 (25.4)	.6250-24 UNEF	1.662 (42.2)	-	.562 (14.3)	.083 (2.1)	.625 (15.9)	.125 (3.2)	.719 (18.3)	.120 (3.1)	.688 (17.5)
12S	1.094 (27.8)	.7500-20 UNEF	1.662 (42.2)	-	.562 (14.3)	.083 (2.1)	.750 (19.1)	.125 (3.2)	.812 (20.6)	.120 (3.1)	.812 (20.6)
14S	1.188 (30.2)	.8750-20 UNEF	1.662 (42.2)	-	.562 (14.3)	.083 (2.1)	.875 (22.2)	.125 (3.2)	.906 (23.0)	.120 (3.1)	.938 (23.8)
16S	1.281 (32.5)	1.0000-20 UNEF	1.662 (42.2)	-	.562 (14.3)	.083 (2.1)	1.000 (25.4)	.125 (3.2)	.969 (24.6)	.120 (3.1)	1.062 (27.0)
18	1.375 (34.9)	1.1250-18 UNEF	1.662 (42.2)	1.937 (49.2)	.750 (19.1)	.125 (3.2)	1.062 (27.0)	.125 (3.2)	1.062 (27.0)	.120 (3.1)	1.188 (30.2)
20	1.500 (38.1)	1.2500-18 UNEF	1.662 (42.2)	1.937 (49.2)	.750 (19.1)	.125 (3.2)	1.187 (30.1)	.125 (3.2)	1.156 (29.4)	.120 (3.1)	1.312 (33.3)
22	1.625 (41.3)	1.3750-18 UNEF	1.662 (42.2)	1.937 (49.2)	.750 (19.1)	.125 (3.2)	1.312 (33.3)	.125 (3.2)	1.250 (31.8)	.120 (3.1)	1.438 (36.5)
24	1.750 (44.5)	1.5000-18 UNEF	1.662 (42.2)	1.937 (49.2)	.812 (20.6)	.125 (3.2)	1.437 (36.5)	.125 (3.2)	1.375 (34.9)	.147 (3.7)	1.562 (39.7)
28	2.000 (50.8)	1.7500-18 UNS	1.662 (42.2)	1.937 (49.2)	.812 (20.6)	.125 (3.2)	1.750 (44.5)	.125 (3.2)	1.562 (39.7)	.147 (3.7)	1.812 (46.0)
32	2.250 (57.2)	2.0000-18 UNS	1.662 (42.2)	1.937 (49.2)	.875 (22.2)	.125 (3.2)	2.000 (50.8)	.125 (3.2)	1.750 (44.5)	.173 (4.4)	2.062 (52.4)
36	2.500 (63.5)	2.2500-16 UN	1.662 (42.2)	1.937 (49.2)	.875 (22.2)	.125 (3.2)	2.250 (57.2)	.125 (3.2)	1.938 (49.2)	.173 (4.4)	2.312 (58.7)

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



Panel Cutout

Rev. 1318.1

Jam Nut Receptacle

TM Series • MIL-DTL-5015 Crimp Type Connectors



TM07 Cross Reference & Compatibility

Compatible Brands	Equivalent	Mates
MIL-DTL-5015 Crimp	MS3454	MS3456, MS3459
Aero Electric	AE554	AE556, AE559
Amphenol / Matrix	9444	9446, 9816
J-Tech / Conesys	—	DC62, DC63
ITT Cannon	CV3454	CV3456, CV3459

TM07 N 28-22 S N - R2(055) - 02

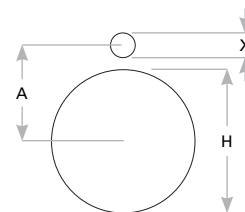
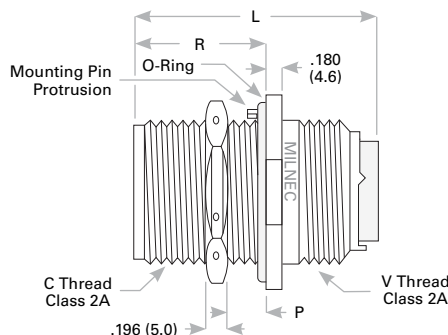
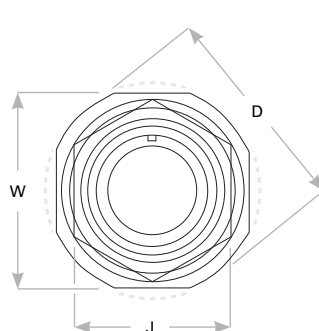
- 1 **BASIC PART NUMBER**
TM07 Jam nut receptacle
- 2 **MATERIAL & FINISH**
N Aluminum, electroless nickel
W Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. K-12
- 4 **CONTACT STYLE**
P Pin
S Socket
- 5 **INSERT ROTATION**
N Normal or W, X, Y, Z, see p. K-12 for availability
- 6 **OPTIONAL BACKSHELL KIT (OMIT FOR NONE)**
B2 Straight strain relief (self-locking), p. K-27
R2() Straight EMI/RFI environmental, p. K-38
(Add dash number for appropriate shell size, see p. K-38)
- 7 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
02 Protective cover

Note: See part builder (p. K-11) for additional kit options.

Receptacle Dimensions

Shell Size	W	D	J	C Thread Class 2A	L Max		R	V Thread Class 2A	P Max Rear Panel†	A	H	X
					#12, #16 Contacts	#0, #4, #8 Contacts						
10L	1.312 (33.3)	1.397 (35.5)	.812 (20.6)	.6250-24 UNEF	2.031 (51.6)	-	.720 (18.3)	.6250-24 UNEF	.128 (3.3)	.385 (9.8)	.630 (16.0)	.100 (2.5)
12S	1.437 (36.5)	1.522 (38.7)	.937 (23.8)	.7500-20 UNEF	2.031 (51.6)	-	.720 (18.3)	.7500-20 UNEF	.128 (3.3)	.448 (11.4)	.755 (19.2)	.100 (2.5)
14S	1.562 (39.7)	1.647 (41.8)	1.125 (28.6)	.8750-20 UNEF	2.031 (51.6)	-	.720 (18.3)	.8750-20 UNEF	.128 (3.3)	.510 (13.0)	.880 (22.4)	.100 (2.5)
16S	1.687 (42.8)	1.772 (45.0)	1.250 (31.8)	1.0000-20 UNEF	2.031 (51.6)	-	.720 (18.3)	1.0000-20 UNEF	.128 (3.3)	.573 (14.6)	1.005 (25.5)	.100 (2.5)
18	1.812 (46.0)	1.897 (48.2)	1.375 (34.9)	1.1250-18 UNEF	2.125 (54.0)	2.500 (63.5)	.970 (24.6)	1.0625-18 UNEF	.128 (3.3)	.635 (16.1)	1.130 (28.7)	.100 (2.5)
20	1.937 (49.2)	2.022 (51.4)	1.500 (38.1)	1.2500-18 UNEF	2.125 (54.0)	2.500 (63.5)	.970 (24.6)	1.1875-18 UNEF	.128 (3.3)	.698 (17.7)	1.255 (31.9)	.100 (2.5)
22	2.156 (54.8)	2.241 (56.9)	1.625 (41.3)	1.3750-18 UNEF	2.125 (54.0)	2.500 (63.5)	.970 (24.6)	1.3125-18 UNEF	.128 (3.3)	.760 (19.3)	1.380 (35.1)	.100 (2.5)
24	2.281 (57.9)	2.366 (60.1)	1.750 (44.5)	1.5000-18 UNS	2.125 (54.0)	2.500 (63.5)	.970 (24.6)	1.4375-18 UNEF	.128 (3.3)	.823 (20.9)	1.505 (38.2)	.100 (2.5)
28	2.531 (64.3)	2.616 (66.4)	2.000 (50.8)	1.7500-18 UNS	2.125 (54.0)	2.500 (63.5)	.970 (24.6)	1.7500-18 UNS	.128 (3.3)	.948 (24.1)	1.755 (44.6)	.100 (2.5)
32	2.781 (70.6)	2.866 (72.8)	2.375 (60.3)	2.0000-18 UNS	2.125 (54.0)	2.500 (63.5)	.970 (24.6)	2.0000-18 UNS	.128 (3.3)	1.073 (27.3)	2.005 (50.9)	.100 (2.5)
36	3.031 (77.0)	3.116 (79.1)	2.625 (66.7)	2.2500-16 UN	2.125 (54.0)	2.500 (63.5)	.970 (24.6)	2.2500-16 UN	.128 (3.3)	1.198 (30.4)	2.255 (57.3)	.100 (2.5)

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



Panel Cutout

Rev. 1318.1

Cable Mount Receptacle

TM Series • MIL-DTL-5015 Crimp Type Connectors

TM01 N 28-22 S N - R2(055) - 02

- 1 **BASIC PART NUMBER**
TM01 Cable mount receptacle
- 2 **MATERIAL & FINISH**
N Aluminum, electroless nickel
W Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. K-12
- 4 **CONTACT STYLE**
P Pin
S Socket
- 5 **INSERT ROTATION**
N Normal or W, X, Y, Z, see p. K-12 for availability
- 6 **OPTIONAL BACKSHELL KIT (OMIT FOR NONE)**
B2 Straight strain relief (self-locking), p. K-27
R2() Straight EMI/RFI environmental, p. K-38
(Add dash number for appropriate shell size, see p. K-38)
- 7 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
02 Protective cover

Note: See part builder (p. K-11) for additional kit options.



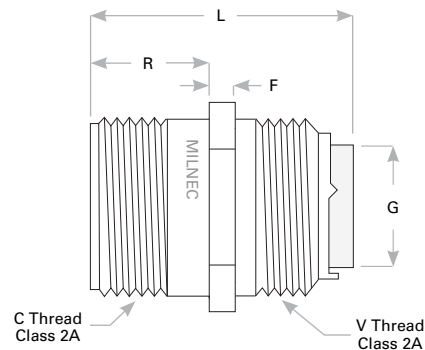
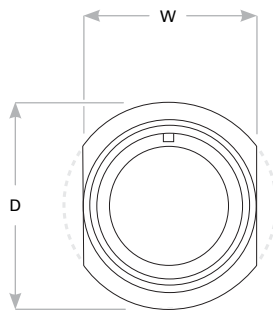
TM01 Cross Reference & Compatibility

Compatible Brands	Equivalent	Mates
MIL-DTL-5015 Crimp	MS3451	MS3456, MS3459
Aero Electric	AE551	AE556, AE559
Amphenol / Matrix	9441	9446, 9816
J-Tech / Conesys	—	DC62, DC63
ITT Cannon	CV3451	CV3456, CV3459

Receptacle Dimensions

Shell Size	W	D	C Thread Class 2A	L Max		R	F	G	V Thread Class 2A
				#12, #16 Contacts	#0, #4, #8 Contacts				
10SL	.629 (16.0)	.854 (21.7)	.6250-24 UNEF	2.031 (51.6)	-	.562 (14.3)	.083 (2.1)	.405 (10.3)	.6250-24 UNEF
12S	.754 (19.2)	.974 (24.7)	.7500-20 UNEF	2.031 (51.6)	-	.562 (14.3)	.083 (2.1)	.549 (13.9)	.7500-20 UNEF
14S	.879 (22.3)	1.099 (27.9)	.8750-20 UNEF	2.031 (51.6)	-	.562 (14.3)	.083 (2.1)	.665 (16.9)	.8750-20 UNEF
16S	1.005 (25.5)	1.224 (31.1)	1.0000-20 UNEF	2.031 (51.6)	-	.562 (14.3)	.083 (2.1)	.790 (20.1)	1.0000-20 UNEF
18	1.131 (28.7)	1.349 (34.3)	1.1250-18 UNEF	2.125 (54.0)	2.500 (63.5)	.750 (19.1)	.125 (3.2)	.869 (22.1)	1.0625-18 UNEF
20	1.256 (31.9)	1.474 (37.4)	1.2500-18 UNEF	2.125 (54.0)	2.500 (63.5)	.750 (19.1)	.125 (3.2)	.994 (25.2)	1.1875-18 UNEF
22	1.381 (35.1)	1.599 (40.6)	1.3750-18 UNEF	2.125 (54.0)	2.500 (63.5)	.750 (19.1)	.125 (3.2)	1.119 (28.4)	1.3125-18 UNEF
24	1.506 (38.3)	1.715 (43.6)	1.5000-18 UNEF	2.125 (54.0)	2.500 (63.5)	.812 (20.6)	.125 (3.2)	1.244 (31.6)	1.4375-18 UNEF
28	1.756 (44.6)	1.974 (50.1)	1.7500-18 UNS	2.125 (54.0)	2.500 (63.5)	.812 (20.6)	.125 (3.2)	1.465 (37.2)	1.7500-18 UNS
32	2.007 (51.0)	2.224 (56.5)	2.0000-18 UNS	2.125 (54.0)	2.500 (63.5)	.870 (22.1)	.125 (3.2)	1.715 (43.6)	2.0000-18 UNS
36	2.257 (57.3)	2.474 (62.8)	2.2500-16 UN	2.125 (54.0)	2.500 (63.5)	.870 (22.1)	.125 (3.2)	1.930 (49.0)	2.2500-16 UN

Dimensions are in inches (mm).



Rev. 1318.1

Thru-Bulkhead Receptacle

TM Series • MIL-DTL-5015 Crimp Type Connectors



TM22 Compatibility

Compatible Brands	Mates
MIL-DTL-5015 Crimp	MS3456, MS3459
Aero Electric	AE556, AE559
Amphenol / Matrix	9446, 9816
J-Tech / Conesys	DC62, DC63
ITT Cannon	CV3456, CV3459

TM22 W 18-11 PS N - 02

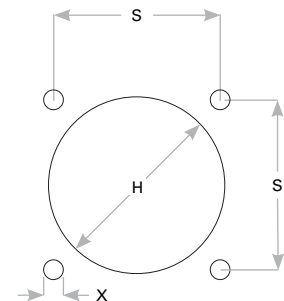
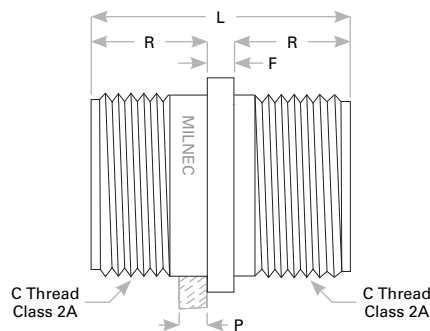
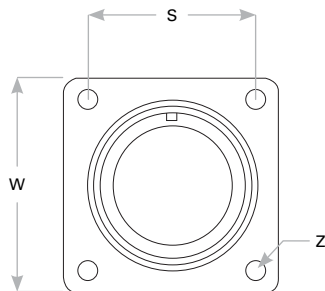
- 1 **BASIC PART NUMBER**
TM22 Thru-bulkhead receptacle
- 2 **MATERIAL & FINISH**
N Aluminum, electroless nickel
W Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. K-12
- 4 **CONTACT STYLE**
PS Pin / socket (non-configurable)
- 5 **INSERT ROTATION**
N Normal or W, X, Y, Z, see p. K-12 for availability
- 6 **OPTIONAL ACCESSORY KIT** (OMIT FOR NONE)
02 Protective covers (2x) + mounting gasket
03 02 kit + mounting bracket + sealing screws

Note: See part builder (p. K-11) for additional kit options.

Receptacle Dimensions

Shell Size	W	Z	L Max	R	F	C Thread Class 2A	Min Thread Length	P Max Rear Panel*	S	X	H
10SL	NOT AVAILABLE										
12S	1.094 (27.8)	.120 (3.0)	1.563 (39.7)	.711 (18.1)	.141 (3.6)	.7500-20 UNEF	.406 (10.3)	.266 (6.8)	.812 (20.6)	.120 (3.1)	.812 (20.6)
14S	1.188 (30.2)	.120 (3.0)	1.563 (39.7)	.711 (18.1)	.141 (3.6)	.8750-20 UNEF	.406 (10.3)	.266 (6.8)	.906 (23.0)	.120 (3.1)	.938 (23.8)
16S	1.281 (32.5)	.120 (3.0)	1.563 (39.7)	.711 (18.1)	.141 (3.6)	1.0000-20 UNEF	.406 (10.3)	.266 (6.8)	.969 (24.6)	.120 (3.1)	1.062 (27.0)
18	1.375 (34.9)	.120 (3.0)	2.125 (54.0)	.985 (25.0)	.155 (4.0)	1.1250-18 UNEF	.625 (15.9)	.312 (7.9)	1.062 (27.0)	.120 (3.1)	1.188 (30.2)
20	1.500 (38.1)	.120 (3.0)	2.125 (54.0)	.985 (25.0)	.155 (4.0)	1.2500-18 UNEF	.625 (15.9)	.312 (7.9)	1.156 (29.4)	.120 (3.1)	1.312 (33.3)
22	1.625 (41.3)	.120 (3.0)	2.125 (54.0)	.985 (25.0)	.155 (4.0)	1.3750-18 UNEF	.625 (15.9)	.312 (7.9)	1.250 (31.8)	.120 (3.1)	1.438 (36.5)
24	1.750 (44.5)	.147 (3.7)	2.125 (54.0)	.985 (25.0)	.155 (4.0)	1.5000-18 UNEF	.625 (15.9)	.312 (7.9)	1.375 (34.9)	.147 (3.7)	1.562 (39.7)
28	2.000 (50.8)	.147 (3.7)	2.125 (54.0)	.985 (25.0)	.155 (4.0)	1.7500-18 UNS	.625 (15.9)	.312 (7.9)	1.562 (39.7)	.147 (3.7)	1.812 (46.0)
32	2.250 (57.2)	.173 (4.4)	2.125 (54.0)	.985 (25.0)	.155 (4.0)	2.0000-18 UNS	.625 (15.9)	.312 (7.9)	1.750 (44.5)	.173 (4.4)	2.062 (52.4)
36	2.500 (63.5)	.173 (4.4)	2.125 (54.0)	.985 (25.0)	.155 (4.0)	2.2500-16 UN	.625 (15.9)	.312 (7.9)	1.938 (49.2)	.173 (4.4)	2.312 (58.7)

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



Panel Cutout

Rev. 1318.1

COMPLETE PROTECTION, LOW-PROFILE DESIGN



O-Ring

Seals threads on backshell's rear assembly and the junction between connector and backshell.



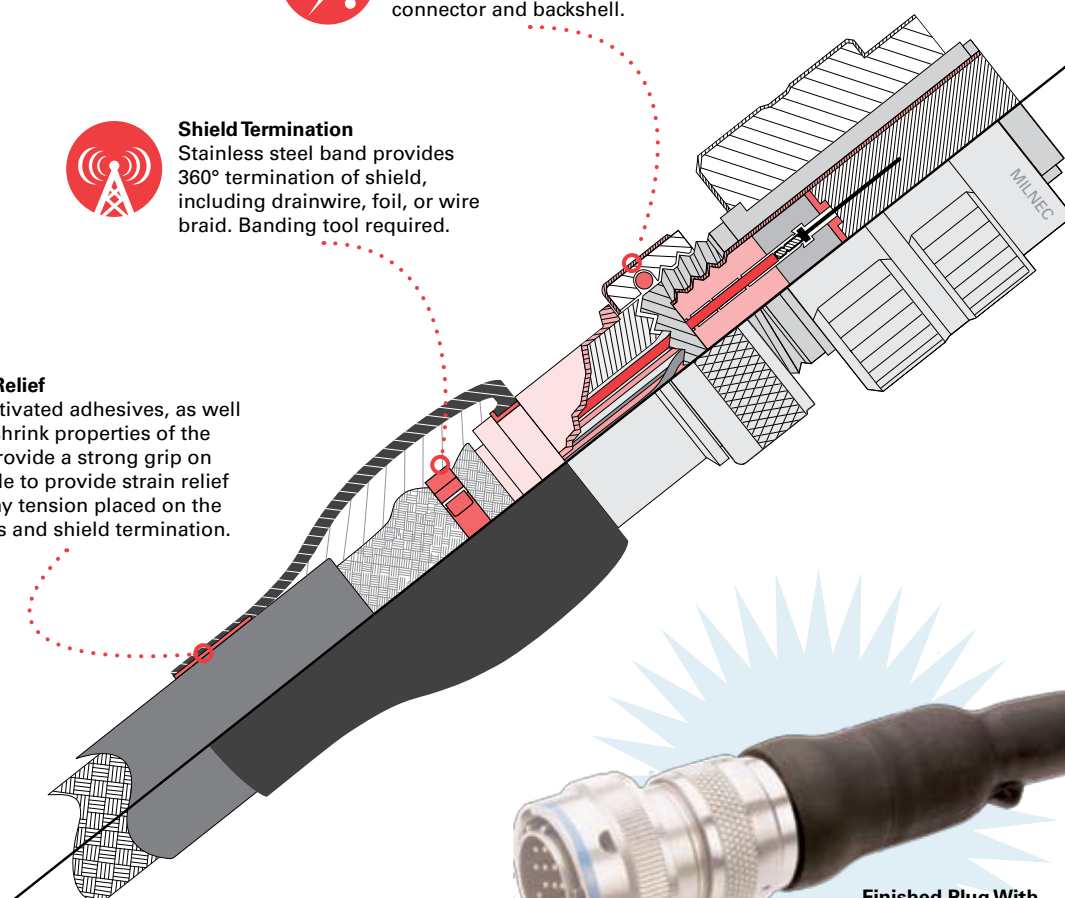
Shield Termination

Stainless steel band provides 360° termination of shield, including drainwire, foil, or wire braid. Banding tool required.



Strain Relief

Heat activated adhesives, as well as the shrink properties of the boot, provide a strong grip on the cable to provide strain relief from any tension placed on the contacts and shield termination.



Finished Plug With
Banding Boot Adapter
& Shrink Boot

360° EMI/RFI & Environmental Protection

Get complete protection from shrink boots with a banding boot adapter. The adapter attaches easily to connectors via a spin coupling and offers 360° shield termination. The overlaying boot provides superior strain relief and environmental sealing for applications that require low-profile backshells.

MILNEC
INTERCONNECT SYSTEMS

Straight Strain Relief Backshell

TM Series • MIL-DTL-5015 Crimp Type Connectors



TMB2 - S - 16 N

- 1 **BASIC PART NUMBER**
TMB2 Straight 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

Note: See part builder (p. K-11) for additional kit options.

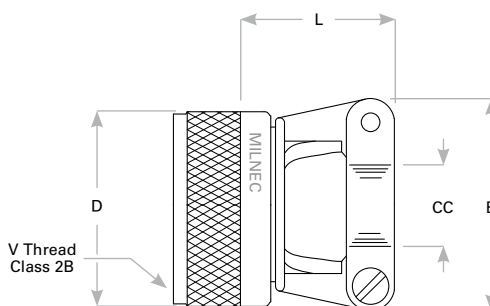
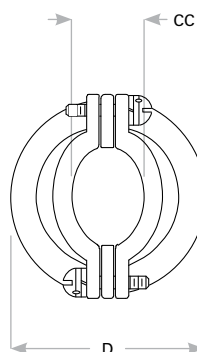
TMB2 Compatibility

Compatible Brands	Connectors
MIL-DTL-5015 Crimp	MS3450, MS3451, MS3454, MS3456, MS3459
Aero Electric	AE550, AE551, AE554, AE556, AE559
Amphenol / Matrix	9440, 9441, 9444, 9446, 9816
J-Tech / Conesys	DC60, DC61, DC62, DC63
ITT Cannon	CV3450, CV3451, CV3454, CV3456, CV3459

Strain Relief Dimensions

Shell Size	D	V Thread Class 2B	L	B	CC Cable Clearance	
					Min	Max
10	1.010 (25.7)	.625-24 UNEF	.850 (21.6)	.812 (20.6)	.187 (4.7)	.286 (7.3)
12	1.135 (28.8)	.750-20 UNEF	.980 (24.9)	.968 (24.6)	.291 (7.4)	.416 (10.6)
14	1.260 (32.0)	.875-20 UNEF	.980 (24.9)	1.026 (26.1)	.351 (8.9)	.476 (12.1)
16	1.385 (35.2)	1.000-20 UNEF	1.100 (27.9)	1.299 (33.0)	.501 (12.7)	.626 (15.9)
18	1.510 (38.4)	1.062-18 UNEF	1.350 (34.3)	1.431 (36.3)	.518 (13.2)	.706 (17.9)
20	1.635 (41.5)	1.188-18 UNEF	1.480 (37.6)	1.537 (39.0)	.581 (14.8)	.831 (21.1)
22	1.760 (44.7)	1.313-18 UNEF	1.600 (40.6)	1.633 (41.5)	.644 (16.4)	.956 (24.3)
24	1.885 (47.9)	1.438-18 UNEF	1.730 (43.9)	1.755 (44.6)	.706 (17.9)	1.081 (27.5)
28	2.135 (54.2)	1.750-18 UNS	1.880 (47.8)	2.000 (50.8)	.750 (19.1)	1.187 (30.1)
32	2.395 (60.8)	2.000-18 UNS	2.130 (54.1)	2.366 (60.1)	.875 (22.2)	1.250 (31.8)
36	2.635 (66.9)	2.250-16 UN	2.440 (62.0)	2.476 (62.9)	.938 (23.8)	1.375 (34.9)

Dimensions are in inches (mm).



Rev. 1318.1

90° Strain Relief Backshell

TM Series • MIL-DTL-5015 Crimp Type Connectors

TMB4 - S - 16 N

- 1 **BASIC PART NUMBER**
TMB4 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



Note: See part builder (p. K-11) for additional kit options.

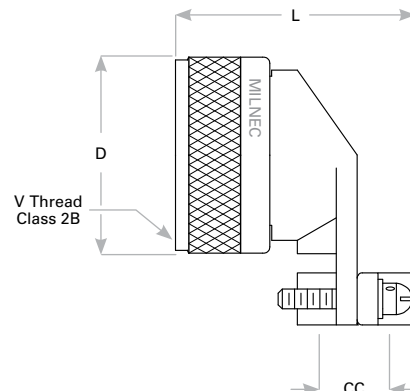
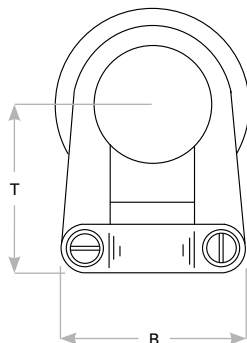
TMB4 Compatibility

Compatible Brands	Connectors
MIL-DTL-5015 Crimp	MS3450, MS3451, MS3454, MS3456, MS3459
Aero Electric	AE550, AE551, AE554, AE556, AE559
Amphenol / Matrix	9440, 9441, 9444, 9446, 9816
J-Tech / Conesys	DC60, DC61, DC62, DC63
ITT Cannon	CV3450, CV3451, CV3454, CV3456, CV3459

Strain Relief Dimensions

Shell Size	T	B	V Thread Class 2B	L	D	CC Cable Clearance	
						Min	Max
10	.805 (20.4)	.812 (20.6)	.625-24 UNEF	1.339 (34.0)	1.010 (25.7)	.187 (4.7)	.286 (7.3)
12	.867 (22.0)	.968 (24.6)	.750-20 UNEF	1.532 (38.9)	1.135 (28.8)	.291 (7.4)	.416 (10.6)
14	.930 (23.6)	1.026 (26.1)	.875-20 UNEF	1.592 (40.4)	1.260 (32.0)	.351 (8.9)	.476 (12.1)
16	.994 (25.2)	1.299 (33.0)	1.000-20 UNEF	1.741 (44.2)	1.385 (35.2)	.501 (12.7)	.626 (15.9)
18	1.171 (29.7)	1.431 (36.3)	1.062-18 UNEF	1.853 (47.1)	1.510 (38.4)	.518 (13.2)	.706 (17.9)
20	1.234 (31.2)	1.537 (39.0)	1.188-18 UNEF	1.978 (50.2)	1.635 (41.5)	.581 (14.8)	.831 (21.1)
22	1.296 (32.9)	1.633 (41.5)	1.313-18 UNEF	2.108 (53.5)	1.760 (44.7)	.644 (16.4)	.956 (24.3)
24	1.358 (34.5)	1.755 (44.6)	1.438-18 UNEF	2.228 (56.6)	1.885 (47.9)	.706 (17.9)	1.081 (27.5)
28	1.572 (39.9)	2.000 (50.8)	1.750-18 UNS	2.528 (64.2)	2.135 (54.2)	.750 (19.1)	1.187 (30.1)
32	1.797 (45.6)	2.366 (60.1)	2.000-18 UNS	2.591 (65.8)	2.395 (60.8)	.875 (22.2)	1.250 (31.8)
36	1.922 (48.8)	2.476 (62.9)	2.250-16 UN	2.716 (69.0)	2.635 (66.9)	.938 (23.8)	1.375 (34.9)

Dimensions are in inches (mm).



Rev. 1318.1

Straight Environmental Backshell

TM Series • MIL-DTL-5015 Crimp Type Connectors



TME2 - 009 N

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

TME2 Straight environmental backshell

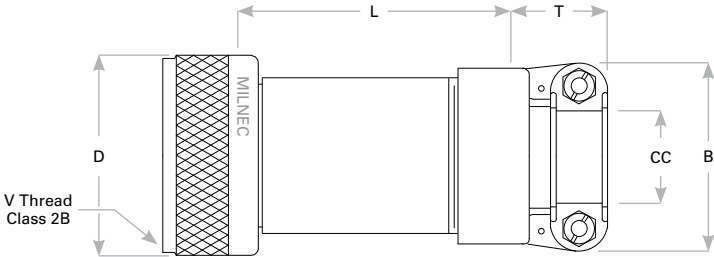
See Backshell Dimensions table below

- N Aluminum, electroless nickel
W Aluminum, olive drab cadmium

Note: See part builder (p. K-11) for additional kit options.

TME2 Compatibility

Compatible Brands	Connectors
MIL-DTL-5015 Crimp	MS3450, MS3451, MS3454, MS3456, MS3459
Aero Electric	AE550, AE551, AE554, AE556, AE559
Amphenol / Matrix	9440, 9441, 9444, 9446, 9816
J-Tech / Conesys	DC60, DC61, DC62, DC63
ITT Cannon	CV3450, CV3451, CV3454, CV3456, CV3459



Backshell Dimensions

Dash No.	Shell Size	V Thread Class 2B	T	D	B	L	CC Cable Clearance	
							Min	Max
009	10	.625-24 UNEF	1.027 (26.1)	.734 (18.6)	.957 (24.3)	2.125 (54.0)	.125 (3.2)	.312 (7.9)
010	10	.625-24 UNEF	1.027 (26.1)	.734 (18.6)	.957 (24.3)	3.125 (79.4)	.125 (3.2)	.312 (7.9)
136	10	.625-24 UNEF	1.027 (26.1)	.734 (18.6)	1.145 (29.1)	2.125 (54.0)	.250 (6.4)	.375 (9.5)
137	10	.625-24 UNEF	1.027 (26.1)	.734 (18.6)	1.145 (29.1)	3.125 (79.4)	.250 (6.4)	.375 (9.5)
011	10	.625-24 UNEF	1.027 (26.1)	.734 (18.6)	1.145 (29.1)	2.875 (73.0)	.250 (6.4)	.437 (11.1)
012	10	.625-24 UNEF	1.027 (26.1)	.734 (18.6)	1.145 (29.1)	3.875 (98.4)	.250 (6.4)	.437 (11.1)
114	12	.750-20 UNEF	1.027 (26.1)	.858 (21.8)	.957 (24.3)	2.125 (54.0)	.125 (3.2)	.312 (7.9)
115	12	.750-20 UNEF	1.027 (26.1)	.858 (21.8)	.957 (24.3)	3.125 (79.4)	.125 (3.2)	.312 (7.9)
013	12	.750-20 UNEF	1.027 (26.1)	.858 (21.8)	1.145 (29.1)	2.125 (54.0)	.250 (6.4)	.437 (11.1)
014	12	.750-20 UNEF	1.027 (26.1)	.858 (21.8)	1.145 (29.1)	3.125 (79.4)	.250 (6.4)	.437 (11.1)
111	12	.750-20 UNEF	1.027 (26.1)	.858 (21.8)	1.332 (33.8)	2.125 (54.0)	.350 (8.9)	.500 (12.7)
139	12	.750-20 UNEF	1.027 (26.1)	.858 (21.8)	1.332 (33.8)	3.125 (79.4)	.350 (8.9)	.500 (12.7)
015	12	.750-20 UNEF	1.027 (26.1)	.858 (21.8)	1.332 (33.8)	2.875 (73.0)	.350 (8.9)	.625 (15.9)
016	12	.750-20 UNEF	1.027 (26.1)	.858 (21.8)	1.332 (33.8)	3.875 (98.4)	.350 (8.9)	.625 (15.9)
150	14	.875-20 UNEF	1.027 (26.1)	.984 (25.0)	.957 (24.3)	2.125 (54.0)	.125 (3.2)	.312 (7.9)

Dimensions are in inches (mm).

(Continued on next page)

Rev. 1318.1

Backshell Dimensions (Continued from previous page)

Dash No.	Shell Size	V Thread Class 2B	T	D	B	L	CC Cable Clearance	
							Min	Max
151	14	.875-20 UNEF	1.027 (26.1)	.984 (25.0)	.957 (24.3)	3.125 (79.4)	.125 (3.2)	.312 (7.9)
116	14	.875-20 UNEF	1.027 (26.1)	.984 (25.0)	1.145 (29.1)	2.125 (54.0)	.250 (6.4)	.437 (11.1)
117	14	.875-20 UNEF	1.027 (26.1)	.984 (25.0)	1.145 (29.1)	3.125 (79.4)	.250 (6.4)	.437 (11.1)
017	14	.875-20 UNEF	1.027 (26.1)	.984 (25.0)	1.332 (33.8)	2.125 (54.0)	.350 (8.9)	.575 (14.6)
018	14	.875-20 UNEF	1.027 (26.1)	.984 (25.0)	1.332 (33.8)	3.125 (79.4)	.350 (8.9)	.575 (14.6)
019	14	.875-20 UNEF	1.059 (26.9)	.984 (25.0)	1.551 (39.4)	2.875 (73.0)	.500 (12.7)	.750 (19.1)
020	14	.875-20 UNEF	1.059 (26.9)	.984 (25.0)	1.551 (39.4)	3.875 (98.4)	.500 (12.7)	.750 (19.1)
152	16	1.000-20 UNEF	1.027 (26.1)	1.112 (28.2)	.957 (24.3)	2.125 (54.0)	.125 (3.2)	.312 (7.9)
153	16	1.000-20 UNEF	1.027 (26.1)	1.112 (28.2)	.957 (24.3)	3.125 (79.4)	.125 (3.2)	.312 (7.9)
112	16	1.000-20 UNEF	1.027 (26.1)	1.112 (28.2)	1.145 (29.1)	2.125 (54.0)	.250 (6.4)	.437 (11.1)
113	16	1.000-20 UNEF	1.027 (26.1)	1.112 (28.2)	1.145 (29.1)	3.125 (79.4)	.250 (6.4)	.437 (11.1)
118	16	1.000-20 UNEF	1.027 (26.1)	1.112 (28.2)	1.332 (33.8)	2.125 (54.0)	.350 (8.9)	.625 (15.9)
119	16	1.000-20 UNEF	1.027 (26.1)	1.112 (28.2)	1.332 (33.8)	3.125 (79.4)	.350 (8.9)	.625 (15.9)
021	16	1.000-20 UNEF	1.059 (26.9)	1.112 (28.2)	1.551 (39.4)	2.125 (54.0)	.500 (12.7)	.700 (17.8)
022	16	1.000-20 UNEF	1.059 (26.9)	1.112 (28.2)	1.551 (39.4)	3.125 (79.4)	.500 (12.7)	.700 (17.8)
023	16	1.000-20 UNEF	1.156 (29.4)	1.112 (28.2)	1.770 (45.0)	2.875 (73.0)	.625 (15.9)	.937 (23.8)
024	16	1.000-20 UNEF	1.156 (29.4)	1.112 (28.2)	1.770 (45.0)	3.875 (98.4)	.625 (15.9)	.937 (23.8)
120	18	1.062-18 UNEF	1.027 (26.1)	1.218 (30.9)	.957 (24.3)	2.125 (54.0)	.125 (3.2)	.312 (7.9)
121	18	1.062-18 UNEF	1.027 (26.1)	1.218 (30.9)	.957 (24.3)	3.125 (79.4)	.125 (3.2)	.312 (7.9)
122	18	1.062-18 UNEF	1.027 (26.1)	1.218 (30.9)	1.145 (29.1)	2.125 (54.0)	.250 (6.4)	.437 (11.1)
123	18	1.062-18 UNEF	1.027 (26.1)	1.218 (30.9)	1.145 (29.1)	3.125 (79.4)	.250 (6.4)	.437 (11.1)
025	18	1.062-18 UNEF	1.027 (26.1)	1.218 (30.9)	1.332 (33.8)	2.125 (54.0)	.350 (8.9)	.625 (15.9)
026	18	1.062-18 UNEF	1.027 (26.1)	1.218 (30.9)	1.332 (33.8)	3.125 (79.4)	.350 (8.9)	.625 (15.9)
027	18	1.062-18 UNEF	1.059 (26.9)	1.218 (30.9)	1.551 (39.4)	2.125 (54.0)	.500 (12.7)	.750 (19.1)
028	18	1.062-18 UNEF	1.059 (26.9)	1.218 (30.9)	1.551 (39.4)	3.125 (79.4)	.500 (12.7)	.750 (19.1)
029	18	1.062-18 UNEF	1.156 (29.4)	1.218 (30.9)	1.770 (45.0)	2.875 (73.0)	.625 (15.9)	.937 (23.8)
030	18	1.062-18 UNEF	1.156 (29.4)	1.218 (30.9)	1.770 (45.0)	3.875 (98.4)	.625 (15.9)	.937 (23.8)
124	20	1.188-18 UNEF	1.027 (26.1)	1.345 (34.2)	1.145 (29.1)	3.125 (79.4)	.250 (6.4)	.437 (11.1)
125	20	1.188-18 UNEF	1.027 (26.1)	1.345 (34.2)	1.145 (29.1)	4.125 (104.8)	.250 (6.4)	.437 (11.1)
031	20	1.188-18 UNEF	1.027 (26.1)	1.345 (34.2)	1.332 (33.8)	3.125 (79.4)	.350 (8.9)	.625 (15.9)
032	20	1.188-18 UNEF	1.027 (26.1)	1.345 (34.2)	1.332 (33.8)	4.125 (104.8)	.350 (8.9)	.625 (15.9)
033	20	1.188-18 UNEF	1.059 (26.9)	1.345 (34.2)	1.551 (39.4)	3.125 (79.4)	.500 (12.7)	.750 (19.1)
034	20	1.188-18 UNEF	1.059 (26.9)	1.345 (34.2)	1.551 (39.4)	4.125 (104.8)	.500 (12.7)	.750 (19.1)
140	20	1.188-18 UNEF	1.156 (29.4)	1.345 (34.2)	1.770 (45.0)	3.125 (79.4)	.625 (15.9)	.904 (23.0)
141	20	1.188-18 UNEF	1.156 (29.4)	1.345 (34.2)	1.770 (45.0)	4.125 (104.8)	.625 (15.9)	.904 (23.0)
035	20	1.188-18 UNEF	1.156 (29.4)	1.345 (34.2)	1.770 (45.0)	3.875 (98.4)	.625 (15.9)	.937 (23.8)
036	20	1.188-18 UNEF	1.156 (29.4)	1.345 (34.2)	1.770 (45.0)	4.875 (123.8)	.625 (15.9)	.937 (23.8)
037	20	1.188-18 UNEF	1.375 (34.9)	1.345 (34.2)	2.113 (53.7)	3.875 (98.4)	.875 (22.2)	1.250 (31.8)
038	20	1.188-18 UNEF	1.375 (34.9)	1.345 (34.2)	2.113 (53.7)	4.875 (123.8)	.875 (22.2)	1.250 (31.8)
126	22	1.313-18 UNEF	1.027 (26.1)	1.468 (37.3)	.957 (24.3)	3.125 (79.4)	.125 (3.2)	.312 (7.9)
127	22	1.313-18 UNEF	1.027 (26.1)	1.468 (37.3)	.957 (24.3)	4.125 (104.8)	.125 (3.2)	.312 (7.9)
128	22	1.313-18 UNEF	1.027 (26.1)	1.468 (37.3)	1.145 (29.1)	3.125 (79.4)	.250 (6.4)	.437 (11.1)
129	22	1.313-18 UNEF	1.027 (26.1)	1.468 (37.3)	1.145 (29.1)	4.125 (104.8)	.250 (6.4)	.437 (11.1)
039	22	1.313-18 UNEF	1.027 (26.1)	1.468 (37.3)	1.332 (33.8)	3.125 (79.4)	.350 (8.9)	.625 (15.9)
040	22	1.313-18 UNEF	1.027 (26.1)	1.468 (37.3)	1.332 (33.8)	4.125 (104.8)	.350 (8.9)	.625 (15.9)
041	22	1.313-18 UNEF	1.059 (26.9)	1.468 (37.3)	1.551 (39.4)	3.125 (79.4)	.500 (12.7)	.750 (19.1)
042	22	1.313-18 UNEF	1.059 (26.9)	1.468 (37.3)	1.551 (39.4)	4.125 (104.8)	.500 (12.7)	.750 (19.1)
043	22	1.313-18 UNEF	1.156 (29.4)	1.468 (37.3)	1.770 (45.0)	3.125 (79.4)	.625 (15.9)	.937 (23.8)

Dimensions are in inches (mm).

(Continued on next page)

Rev. 1318.1

Straight Environmental Backshell

TM Series • MIL-DTL-5015 Crimp Type Connectors

Backshell Dimensions (Continued from previous page)

Dash No.	Shell Size	V Thread Class 2B	T	D	B	L	CC Cable Clearance	
							Min	Max
044	22	1.313-18 UNEF	1.156 (29.4)	1.468 (37.3)	1.770 (45.0)	4.125 (104.8)	.625 (15.9)	.937 (23.8)
142	22	1.313-18 UNEF	1.375 (34.9)	1.468 (37.3)	2.113 (53.7)	3.125 (79.4)	.875 (22.2)	1.029 (26.1)
143	22	1.313-18 UNEF	1.375 (34.9)	1.468 (37.3)	2.113 (53.7)	4.125 (104.8)	.875 (22.2)	1.029 (26.1)
045	22	1.313-18 UNEF	1.375 (34.9)	1.468 (37.3)	2.113 (53.7)	3.875 (98.4)	.875 (22.2)	1.250 (31.8)
046	22	1.313-18 UNEF	1.375 (34.9)	1.468 (37.3)	2.113 (53.7)	4.875 (123.8)	.875 (22.2)	1.250 (31.8)
130	24	1.438-18 UNEF	1.027 (26.1)	1.593 (40.5)	1.332 (33.8)	3.125 (79.4)	.350 (8.9)	.625 (15.9)
131	24	1.438-18 UNEF	1.027 (26.1)	1.593 (40.5)	1.332 (33.8)	4.125 (104.8)	.350 (8.9)	.625 (15.9)
047	24	1.438-18 UNEF	1.059 (26.9)	1.593 (40.5)	1.551 (39.4)	3.125 (79.4)	.500 (12.7)	.750 (19.1)
048	24	1.438-18 UNEF	1.059 (26.9)	1.593 (40.5)	1.551 (39.4)	4.125 (104.8)	.500 (12.7)	.750 (19.1)
049	24	1.438-18 UNEF	1.156 (29.4)	1.593 (40.5)	1.770 (45.0)	3.125 (79.4)	.625 (15.9)	.812 (20.6)
050	24	1.438-18 UNEF	1.156 (29.4)	1.593 (40.5)	1.770 (45.0)	4.125 (104.8)	.625 (15.9)	.812 (20.6)
051	24	1.438-18 UNEF	1.156 (29.4)	1.593 (40.5)	1.770 (45.0)	3.125 (79.4)	.625 (15.9)	.937 (23.8)
052	24	1.438-18 UNEF	1.156 (29.4)	1.593 (40.5)	1.770 (45.0)	4.125 (104.8)	.625 (15.9)	.937 (23.8)
144	24	1.438-18 UNEF	1.375 (34.9)	1.593 (40.5)	2.113 (53.7)	3.125 (79.4)	.875 (22.2)	1.144 (29.1)
145	24	1.438-18 UNEF	1.375 (34.9)	1.593 (40.5)	2.113 (53.7)	4.125 (104.8)	.875 (22.2)	1.144 (29.1)
053	24	1.438-18 UNEF	1.375 (34.9)	1.593 (40.5)	2.113 (53.7)	3.875 (98.4)	.875 (22.2)	1.250 (31.8)
054	24	1.438-18 UNEF	1.375 (34.9)	1.593 (40.5)	2.113 (53.7)	4.875 (123.8)	.875 (22.2)	1.250 (31.8)
055	28	1.750-18 UNS	1.059 (26.9)	1.969 (50.0)	1.551 (39.4)	3.125 (79.4)	.500 (12.7)	.750 (19.1)
056	28	1.750-18 UNS	1.059 (26.9)	1.969 (50.0)	1.551 (39.4)	4.125 (104.8)	.500 (12.7)	.750 (19.1)
057	28	1.750-18 UNS	1.156 (29.4)	1.969 (50.0)	1.770 (45.0)	3.125 (79.4)	.625 (15.9)	.937 (23.8)
058	28	1.750-18 UNS	1.156 (29.4)	1.969 (50.0)	1.770 (45.0)	4.125 (104.8)	.625 (15.9)	.937 (23.8)
059	28	1.750-18 UNS	1.375 (34.9)	1.969 (50.0)	2.113 (53.7)	3.125 (79.4)	.875 (22.2)	1.250 (31.8)
060	28	1.750-18 UNS	1.375 (34.9)	1.969 (50.0)	2.113 (53.7)	4.125 (104.8)	.875 (22.2)	1.250 (31.8)
061	28	1.750-18 UNS	1.500 (38.1)	1.969 (50.0)	2.363 (60.0)	3.125 (79.4)	1.000 (25.4)	1.375 (34.9)
062	28	1.750-18 UNS	1.500 (38.1)	1.969 (50.0)	2.363 (60.0)	4.125 (104.8)	1.000 (25.4)	1.375 (34.9)
063	32	2.000-18 UNS	1.156 (29.4)	2.219 (56.4)	1.770 (45.0)	3.125 (79.4)	.625 (15.9)	.937 (23.8)
064	32	2.000-18 UNS	1.156 (29.4)	2.219 (56.4)	1.770 (45.0)	4.125 (104.8)	.625 (15.9)	.937 (23.8)
065	32	2.000-18 UNS	1.375 (34.9)	2.219 (56.4)	2.113 (53.7)	3.125 (79.4)	.875 (22.2)	1.250 (31.8)
066	32	2.000-18 UNS	1.375 (34.9)	2.219 (56.4)	2.113 (53.7)	4.125 (104.8)	.875 (22.2)	1.250 (31.8)
067	32	2.000-18 UNS	1.500 (38.1)	2.219 (56.4)	2.363 (60.0)	3.125 (79.4)	1.000 (25.4)	1.375 (34.9)
068	32	2.000-18 UNS	1.500 (38.1)	2.219 (56.4)	2.363 (60.0)	4.125 (104.8)	1.000 (25.4)	1.375 (34.9)
069	32	2.000-18 UNS	1.781 (45.2)	2.219 (56.4)	2.770 (70.4)	3.125 (79.4)	1.250 (31.8)	1.625 (41.3)
070	32	2.000-18 UNS	1.781 (45.2)	2.219 (56.4)	2.770 (70.4)	4.125 (104.8)	1.250 (31.8)	1.625 (41.3)
132	36	2.250-16 UN	1.059 (26.9)	2.469 (62.7)	1.551 (39.4)	4.125 (104.8)	.500 (12.7)	.750 (19.1)
133	36	2.250-16 UN	1.059 (26.9)	2.469 (62.7)	1.551 (39.4)	5.125 (130.2)	.500 (12.7)	.750 (19.1)
148	36	2.250-16 UN	1.156 (29.4)	2.469 (62.7)	1.770 (45.0)	4.125 (104.8)	.625 (15.9)	.937 (23.8)
149	36	2.250-16 UN	1.156 (29.4)	2.469 (62.7)	1.770 (45.0)	5.125 (130.2)	.625 (15.9)	.937 (23.8)
071	36	2.250-16 UN	1.375 (34.9)	2.469 (62.7)	2.113 (53.7)	4.125 (104.8)	.875 (22.2)	1.250 (31.8)
072	36	2.250-16 UN	1.375 (34.9)	2.469 (62.7)	2.113 (53.7)	5.125 (130.2)	.875 (22.2)	1.250 (31.8)
073	36	2.250-16 UN	1.500 (38.1)	2.469 (62.7)	2.363 (60.0)	4.125 (104.8)	1.000 (25.4)	1.375 (34.9)
074	36	2.250-16 UN	1.500 (38.1)	2.469 (62.7)	2.363 (60.0)	5.125 (130.2)	1.000 (25.4)	1.375 (34.9)
075	36	2.250-16 UN	1.781 (45.2)	2.469 (62.7)	2.770 (70.4)	4.125 (104.8)	1.250 (31.8)	1.625 (41.3)
076	36	2.250-16 UN	1.781 (45.2)	2.469 (62.7)	2.770 (70.4)	5.125 (130.2)	1.250 (31.8)	1.625 (41.3)
146	36	2.250-16 UN	1.830 (46.5)	2.469 (62.7)	3.020 (76.7)	4.125 (104.8)	1.437 (36.5)	1.840 (46.7)
147	36	2.250-16 UN	1.830 (46.5)	2.469 (62.7)	3.020 (76.7)	5.125 (130.2)	1.437 (36.5)	1.840 (46.7)
077	36	2.250-16 UN	1.830 (46.5)	2.469 (62.7)	3.020 (76.7)	5.000 (127.0)	1.437 (36.5)	1.875 (47.6)
078	36	2.250-16 UN	1.830 (46.5)	2.469 (62.7)	3.020 (76.7)	6.000 (152.4)	1.437 (36.5)	1.875 (47.6)

Dimensions are in inches (mm).

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BATTLEFIELD READY RIGHT OUT OF THE BOX

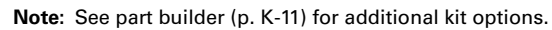


Ruggedized IP67 Connectors & Accessories

Milnec high-performance connectors can handle the toughest applications in the most demanding environments. Heavy duty construction with a variety of sealing and mounting components ensures IP67 protection for complete system reliability. Keep your equipment ready for action with Milnec ruggedized connectors.



TM Series • MIL-DTL-5015 Crimp Type Connectors



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Backshell Dimensions (Continued from previous page)

Dash No.	Shell Size	V Thread Class 2B	N	T	D	B	L	CC Cable Clearance	
								Min	Max
074	14	.875-20 UNEF	.812 (20.6)	1.027 (26.1)	.984 (25.0)	.957 (24.3)	2.062 (52.4)	.125 (3.2)	.312 (7.9)
009	14	.875-20 UNEF	.812 (20.6)	1.027 (26.1)	.984 (25.0)	1.145 (29.1)	2.062 (52.4)	.250 (6.4)	.437 (11.1)
010	14	.875-20 UNEF	.812 (20.6)	1.027 (26.1)	.984 (25.0)	1.332 (33.8)	1.717 (43.6)	.350 (8.9)	.575 (14.6)
050	14	.875-20 UNEF	1.842 (46.8)	1.059 (26.9)	.984 (25.0)	1.551 (39.4)	2.362 (60.0)	.500 (12.7)	.750 (19.1)
075	16	1.000-20 UNEF	.906 (23.0)	1.027 (26.1)	1.112 (28.2)	.957 (24.3)	2.172 (55.2)	.125 (3.2)	.312 (7.9)
011	16	1.000-20 UNEF	.906 (23.0)	1.027 (26.1)	1.112 (28.2)	1.145 (29.1)	2.172 (55.2)	.250 (6.4)	.437 (11.1)
040	16	1.000-20 UNEF	.906 (23.0)	1.027 (26.1)	1.112 (28.2)	1.332 (33.8)	2.172 (55.2)	.350 (8.9)	.625 (15.9)
012	16	1.000-20 UNEF	.906 (23.0)	1.059 (26.9)	1.112 (28.2)	1.551 (39.4)	1.812 (46.0)	.500 (12.7)	.700 (17.8)
051	16	1.000-20 UNEF	1.938 (49.2)	1.156 (29.4)	1.112 (28.2)	1.770 (45.0)	2.512 (63.8)	.625 (15.9)	.937 (23.8)
041	18	1.062-18 UNEF	1.093 (27.8)	1.027 (26.1)	1.218 (30.9)	.957 (24.3)	2.362 (60.0)	.125 (3.2)	.312 (7.9)
042	18	1.062-18 UNEF	1.093 (27.8)	1.027 (26.1)	1.218 (30.9)	1.145 (29.1)	2.362 (60.0)	.250 (6.4)	.437 (11.1)
013	18	1.062-18 UNEF	1.093 (27.8)	1.027 (26.1)	1.218 (30.9)	1.332 (33.8)	2.362 (60.0)	.350 (8.9)	.625 (15.9)
052	18	1.062-18 UNEF	1.093 (27.8)	1.059 (26.9)	1.218 (30.9)	1.551 (39.4)	2.362 (60.0)	.500 (12.7)	.750 (19.1)
014	18	1.062-18 UNEF	1.093 (27.8)	1.156 (29.4)	1.218 (30.9)	1.770 (45.0)	2.000 (50.8)	.625 (15.9)	.779 (19.8)
072	18	1.062-18 UNEF	1.938 (49.2)	1.156 (29.4)	1.218 (30.9)	1.770 (45.0)	2.512 (63.8)	.625 (15.9)	.937 (23.8)
043	20	1.188-18 UNEF	1.093 (27.8)	1.027 (26.1)	1.345 (34.2)	1.145 (29.1)	2.362 (60.0)	.250 (6.4)	.437 (11.1)
015	20	1.188-18 UNEF	1.093 (27.8)	1.027 (26.1)	1.345 (34.2)	1.332 (33.8)	2.362 (60.0)	.350 (8.9)	.625 (15.9)
054	20	1.188-18 UNEF	1.093 (27.8)	1.059 (26.9)	1.345 (34.2)	1.551 (39.4)	2.362 (60.0)	.500 (12.7)	.750 (19.1)
016	20	1.188-18 UNEF	1.093 (27.8)	1.156 (29.4)	1.345 (34.2)	1.770 (45.0)	2.000 (50.8)	.625 (15.9)	.904 (23.0)
055	20	1.188-18 UNEF	2.061 (52.3)	1.375 (34.9)	1.345 (34.2)	2.113 (53.7)	2.562 (65.1)	.875 (22.2)	1.250 (31.8)
044	22	1.313-18 UNEF	1.188 (30.2)	1.027 (26.1)	1.468 (37.3)	.957 (24.3)	2.512 (63.8)	.125 (3.2)	.312 (7.9)
045	22	1.313-18 UNEF	1.188 (30.2)	1.027 (26.1)	1.468 (37.3)	1.145 (29.1)	2.512 (63.8)	.250 (6.4)	.437 (11.1)
056	22	1.313-18 UNEF	1.188 (30.2)	1.027 (26.1)	1.468 (37.3)	1.332 (33.8)	2.512 (63.8)	.350 (8.9)	.625 (15.9)
017	22	1.313-18 UNEF	1.188 (30.2)	1.059 (26.9)	1.468 (37.3)	1.551 (39.4)	2.512 (63.8)	.500 (12.7)	.750 (19.1)
057	22	1.313-18 UNEF	1.188 (30.2)	1.156 (29.4)	1.468 (37.3)	1.770 (45.0)	2.512 (63.8)	.625 (15.9)	.937 (23.8)
018	22	1.313-18 UNEF	1.188 (30.2)	1.375 (34.9)	1.468 (37.3)	2.113 (53.7)	2.155 (54.7)	.875 (22.2)	1.029 (26.1)
058	22	1.313-18 UNEF	2.061 (52.3)	1.375 (34.9)	1.468 (37.3)	2.113 (53.7)	2.562 (65.1)	.875 (22.2)	1.250 (31.8)
046	24	1.438-18 UNEF	1.188 (30.2)	1.027 (26.1)	1.593 (40.5)	1.332 (33.8)	2.512 (63.8)	.350 (8.9)	.625 (15.9)
019	24	1.438-18 UNEF	1.188 (30.2)	1.059 (26.9)	1.593 (40.5)	1.551 (39.4)	2.512 (63.8)	.500 (12.7)	.750 (19.1)
059	24	1.438-18 UNEF	1.188 (30.2)	1.156 (29.4)	1.593 (40.5)	1.770 (45.0)	2.512 (63.8)	.625 (15.9)	.937 (23.8)
020	24	1.438-18 UNEF	1.188 (30.2)	1.375 (34.9)	1.593 (40.5)	2.113 (53.7)	2.155 (54.7)	.875 (22.2)	1.144 (29.1)
073	24	1.438-18 UNEF	2.061 (52.3)	1.375 (34.9)	1.593 (40.5)	2.113 (53.7)	2.562 (65.1)	.875 (22.2)	1.250 (31.8)
060	28	1.750-18 UNS	1.312 (33.3)	1.059 (26.9)	1.969 (50.0)	1.551 (39.4)	2.562 (65.1)	.500 (12.7)	.750 (19.1)
021	28	1.750-18 UNS	1.312 (33.3)	1.156 (33.7)	1.969 (50.0)	1.770 (45.0)	2.562 (65.1)	.625 (15.9)	.937 (23.8)
061	28	1.750-18 UNS	1.312 (33.3)	1.375 (34.9)	1.969 (50.0)	2.113 (53.7)	2.562 (65.1)	.875 (22.2)	1.250 (31.8)
022	28	1.750-18 UNS	1.312 (33.3)	1.500 (38.1)	1.969 (50.0)	2.363 (60.0)	2.218 (56.3)	1.000 (25.4)	1.375 (34.9)
023	32	2.000-18 UNS	1.375 (34.9)	1.156 (29.4)	2.219 (56.4)	1.770 (45.0)	2.662 (67.6)	.625 (15.9)	.937 (23.8)
024	32	2.000-18 UNS	1.375 (34.9)	1.375 (34.9)	2.219 (56.4)	2.113 (53.7)	2.662 (67.6)	.875 (22.2)	1.250 (31.8)
062	32	2.000-18 UNS	1.375 (34.9)	1.500 (38.1)	2.219 (56.4)	2.363 (60.0)	2.662 (67.6)	1.000 (25.4)	1.375 (34.9)
025	32	2.000-18 UNS	1.375 (34.9)	1.781 (45.2)	2.219 (56.4)	2.770 (70.4)	2.312 (58.7)	1.250 (31.8)	1.625 (41.3)
047	36	2.250-16 UN	1.406 (35.7)	1.059 (26.9)	2.469 (62.7)	1.551 (39.4)	2.752 (69.9)	.500 (12.7)	.750 (19.1)
026	36	2.250-16 UN	1.406 (35.7)	1.156 (29.4)	2.469 (62.7)	1.770 (45.0)	2.752 (69.9)	.625 (15.9)	.937 (23.8)
063	36	2.250-16 UN	1.406 (35.7)	1.375 (34.9)	2.469 (62.7)	2.113 (53.7)	2.752 (69.9)	.875 (22.2)	1.250 (31.8)
027	36	2.250-16 UN	1.406 (35.7)	1.500 (38.1)	2.469 (62.7)	2.363 (60.0)	2.752 (69.9)	1.000 (25.4)	1.375 (34.9)
064	36	2.250-16 UN	1.406 (35.7)	1.781 (45.2)	2.469 (62.7)	2.770 (70.4)	2.752 (69.9)	1.250 (31.8)	1.625 (41.3)
028	36	2.250-16 UN	1.406 (35.7)	1.830 (46.5)	2.469 (62.7)	3.020 (76.7)	2.406 (61.1)	1.437 (36.5)	1.840 (46.7)

Dimensions are in inches (mm).

90° Environmental Backshell

TM Series • MIL-DTL-5015 Crimp Type Connectors



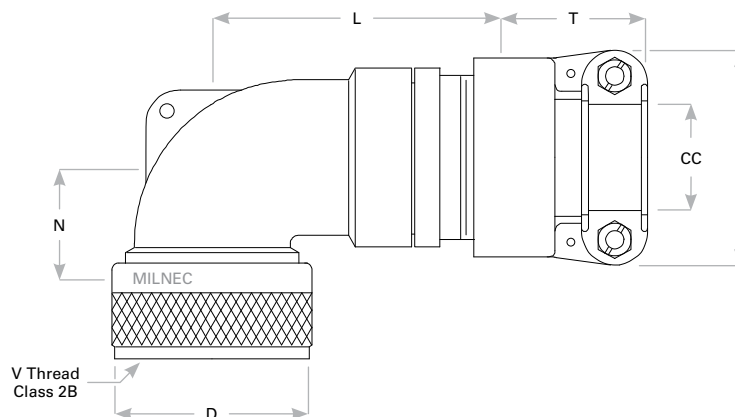
TME4 - 009 N

- 1 **BASIC PART NUMBER**
TME4 90° environmental backshell
- 2 **DASH NO.**
See Backshell Dimensions table below
- 3 **MATERIAL & FINISH**
N Aluminum, electroless nickel
W Aluminum, olive drab cadmium

Note: See part builder (p. K-11) for additional kit options.

TME4 Compatibility

Compatible Brands	Connectors
MIL-DTL-5015 Crimp	MS3450, MS3451, MS3454, MS3456, MS3459
Aero Electric	AE550, AE551, AE554, AE556, AE559
Amphenol / Matrix	9440, 9441, 9444, 9446, 9816
J-Tech / Conesys	DC60, DC61, DC62, DC63
ITT Cannon	CV3450, CV3451, CV3454, CV3456, CV3459



Backshell Dimensions

Dash No.	Shell Size	V Thread Class 2B	N	T	D	B	L	CC Cable Clearance	
								Min	Max
004	10	.625-24 UNEF	.761 (19.3)	1.027 (26.1)	.734 (18.6)	.957 (24.3)	1.982 (50.3)	.125 (3.2)	.312 (7.9)
005	10	.625-24 UNEF	.761 (19.3)	1.027 (26.1)	.734 (18.6)	1.145 (29.1)	1.382 (35.1)	.250 (6.4)	.375 (9.5)
049	10	.625-24 UNEF	1.516 (38.5)	1.027 (26.1)	.734 (18.6)	1.145 (29.1)	2.002 (50.9)	.250 (6.4)	.437 (11.1)
006	12	.750-20 UNEF	.766 (19.5)	1.027 (26.1)	.858 (21.8)	.957 (24.3)	2.002 (50.9)	.125 (3.2)	.312 (7.9)
007	12	.750-20 UNEF	.766 (19.5)	1.027 (26.1)	.858 (21.8)	1.145 (29.1)	2.002 (50.9)	.250 (6.4)	.437 (11.1)
008	12	.750-20 UNEF	.766 (19.5)	1.027 (26.1)	.858 (21.8)	1.332 (33.8)	1.397 (35.5)	.350 (8.9)	.500 (12.7)
071	12	.750-20 UNEF	1.811 (46.0)	1.027 (26.1)	.858 (21.8)	1.332 (33.8)	2.162 (54.9)	.350 (8.9)	.625 (15.9)
074	14	.875-20 UNEF	.866 (22.0)	1.027 (26.1)	.984 (25.0)	.957 (24.3)	2.072 (52.6)	.125 (3.2)	.312 (7.9)
009	14	.875-20 UNEF	.866 (22.0)	1.027 (26.1)	.984 (25.0)	1.145 (29.1)	2.072 (52.6)	.250 (6.4)	.437 (11.1)
010	14	.875-20 UNEF	.866 (22.0)	1.027 (26.1)	.984 (25.0)	1.332 (33.8)	1.717 (43.6)	.350 (8.9)	.575 (14.6)
050	14	.875-20 UNEF	1.891 (48.0)	1.059 (26.9)	.984 (25.0)	1.551 (39.4)	2.332 (59.2)	.500 (12.7)	.750 (19.1)

Dimensions are in inches (mm).

(Continued on next page)

Rev. 1318.1

Backshell Dimensions (Continued from previous page)

Dash No.	Shell Size	V Thread Class 2B	N	T	D	B	L	CC Cable Clearance	
								Min	Max
075	16	1.000-20 UNEF	1.051 (26.7)	1.027 (26.1)	1.112 (28.2)	.957 (24.3)	2.162 (54.9)	.125 (3.2)	.312 (7.9)
011	16	1.000-20 UNEF	1.051 (26.7)	1.027 (26.1)	1.112 (28.2)	1.145 (29.1)	2.162 (54.9)	.250 (6.4)	.437 (11.1)
040	16	1.000-20 UNEF	1.051 (26.7)	1.027 (26.1)	1.112 (28.2)	1.332 (33.8)	2.162 (54.9)	.350 (8.9)	.625 (15.9)
012	16	1.000-20 UNEF	1.051 (26.7)	1.059 (26.9)	1.112 (28.2)	1.551 (39.4)	1.807 (45.9)	.500 (12.7)	.700 (17.8)
051	16	1.000-20 UNEF	2.041 (51.8)	1.156 (29.4)	1.112 (28.2)	1.770 (45.0)	2.442 (62.0)	.625 (15.9)	.937 (23.8)
041	18	1.062-18 UNEF	1.141 (29.0)	1.027 (26.1)	1.218 (30.9)	.957 (24.3)	2.332 (59.2)	.125 (3.2)	.312 (7.9)
042	18	1.062-18 UNEF	1.141 (29.0)	1.027 (26.1)	1.218 (30.9)	1.145 (29.1)	2.332 (59.2)	.250 (6.4)	.437 (11.1)
013	18	1.062-18 UNEF	1.141 (29.0)	1.027 (26.1)	1.218 (30.9)	1.332 (33.8)	2.332 (59.2)	.350 (8.9)	.625 (15.9)
052	18	1.062-18 UNEF	1.141 (29.0)	1.059 (26.9)	1.218 (30.9)	1.551 (39.4)	2.332 (59.2)	.500 (12.7)	.750 (19.1)
014	18	1.062-18 UNEF	1.141 (29.0)	1.156 (29.4)	1.218 (30.9)	1.770 (45.0)	1.982 (50.3)	.625 (15.9)	.779 (19.8)
072	18	1.062-18 UNEF	2.051 (52.1)	1.156 (29.4)	1.218 (30.9)	1.770 (45.0)	2.442 (62.0)	.625 (15.9)	.937 (23.8)
043	20	1.188-18 UNEF	1.141 (29.0)	1.027 (26.1)	1.345 (34.2)	1.145 (29.1)	2.332 (59.2)	.250 (6.4)	.437 (11.1)
015	20	1.188-18 UNEF	1.141 (29.0)	1.027 (26.1)	1.345 (34.2)	1.332 (33.8)	2.332 (59.2)	.350 (8.9)	.625 (15.9)
054	20	1.188-18 UNEF	1.141 (29.0)	1.059 (26.9)	1.345 (34.2)	1.551 (39.4)	2.332 (59.2)	.500 (12.7)	.750 (19.1)
016	20	1.188-18 UNEF	1.141 (29.0)	1.156 (29.4)	1.345 (34.2)	1.770 (45.0)	1.982 (50.3)	.625 (15.9)	.904 (23.0)
055	20	1.188-18 UNEF	2.141 (54.4)	1.375 (34.9)	1.345 (34.2)	2.113 (53.7)	2.612 (66.3)	.875 (22.2)	1.250 (31.8)
044	22	1.313-18 UNEF	1.291 (32.8)	1.027 (26.1)	1.468 (37.3)	.957 (24.3)	2.442 (62.0)	.125 (3.2)	.312 (7.9)
045	22	1.313-18 UNEF	1.291 (32.8)	1.027 (26.1)	1.468 (37.3)	1.145 (29.1)	2.442 (62.0)	.250 (6.4)	.437 (11.1)
056	22	1.313-18 UNEF	1.291 (32.8)	1.027 (26.1)	1.468 (37.3)	1.332 (33.8)	2.442 (62.0)	.350 (8.9)	.625 (15.9)
017	22	1.313-18 UNEF	1.291 (32.8)	1.059 (26.9)	1.468 (37.3)	1.551 (39.4)	2.442 (62.0)	.500 (12.7)	.750 (19.1)
057	22	1.313-18 UNEF	1.291 (32.8)	1.156 (29.4)	1.468 (37.3)	1.770 (45.0)	2.442 (62.0)	.625 (15.9)	.937 (23.8)
018	22	1.313-18 UNEF	1.291 (32.8)	1.375 (34.9)	1.468 (37.3)	2.113 (53.7)	2.087 (53.0)	.875 (22.2)	1.029 (26.1)
058	22	1.313-18 UNEF	2.141 (54.4)	1.375 (34.9)	1.468 (37.3)	2.113 (53.7)	2.612 (66.3)	.875 (22.2)	1.250 (31.8)
046	24	1.438-18 UNEF	1.291 (32.8)	1.027 (26.1)	1.593 (40.5)	1.332 (33.8)	2.442 (62.0)	.350 (8.9)	.625 (15.9)
019	24	1.438-18 UNEF	1.291 (32.8)	1.059 (26.9)	1.593 (40.5)	1.551 (39.4)	2.442 (62.0)	.500 (12.7)	.750 (19.1)
059	24	1.438-18 UNEF	1.291 (32.8)	1.156 (29.4)	1.593 (40.5)	1.770 (45.0)	2.442 (62.0)	.625 (15.9)	.937 (23.8)
020	24	1.438-18 UNEF	1.291 (32.8)	1.375 (34.9)	1.593 (40.5)	2.113 (53.7)	2.087 (53.0)	.875 (22.2)	1.114 (29.1)
073	24	1.438-18 UNEF	2.151 (54.6)	1.375 (34.9)	1.593 (40.5)	2.116 (53.7)	2.612 (66.3)	.875 (22.2)	1.250 (31.8)
060	28	1.750-18 UNS	1.391 (35.3)	1.059 (26.9)	1.969 (50.0)	1.551 (39.4)	2.612 (66.3)	.500 (12.7)	.750 (19.1)
021	28	1.750-18 UNS	1.391 (35.3)	1.156 (29.4)	1.969 (50.0)	1.770 (45.0)	2.612 (66.3)	.625 (15.9)	.937 (23.8)
061	28	1.750-18 UNS	1.391 (35.3)	1.375 (34.9)	1.969 (50.0)	2.113 (53.7)	2.612 (66.3)	.875 (22.2)	1.250 (31.8)
022	28	1.750-18 UNS	1.391 (35.3)	1.500 (38.1)	1.969 (50.0)	2.363 (60.0)	2.257 (57.3)	1.000 (25.4)	1.375 (34.9)
023	32	2.000-18 UNS	1.741 (44.2)	1.156 (29.4)	2.219 (56.4)	1.770 (45.0)	2.862 (72.7)	.625 (15.9)	.937 (23.8)
024	32	2.000-18 UNS	1.741 (44.2)	1.375 (34.9)	2.219 (56.4)	2.113 (53.7)	2.862 (72.7)	.875 (22.2)	1.250 (31.8)
062	32	2.000-18 UNS	1.741 (44.2)	1.500 (38.1)	2.219 (56.4)	2.363 (60.0)	2.862 (72.7)	1.000 (25.4)	1.375 (34.9)
025	32	2.000-18 UNS	1.741 (44.2)	1.781 (45.2)	2.219 (56.4)	2.770 (70.4)	2.507 (63.7)	1.250 (31.8)	1.625 (41.3)
047	36	2.250-16 UN	1.941 (49.3)	1.059 (26.9)	2.469 (62.7)	1.551 (39.4)	2.832 (71.9)	.500 (12.7)	.750 (19.1)
026	36	2.250-16 UN	1.941 (49.3)	1.156 (29.4)	2.469 (62.7)	1.770 (45.0)	2.832 (71.9)	.625 (15.9)	.937 (23.8)
063	36	2.250-16 UN	1.941 (49.3)	1.375 (34.9)	2.469 (62.7)	2.113 (53.7)	2.832 (71.9)	.875 (22.2)	1.250 (31.8)
027	36	2.250-16 UN	1.941 (49.3)	1.500 (38.1)	2.469 (62.7)	2.363 (60.0)	2.832 (59.2)	1.000 (25.4)	1.375 (34.9)
064	36	2.250-16 UN	1.941 (49.3)	1.781 (45.2)	2.469 (62.7)	2.770 (70.4)	2.832 (71.9)	1.250 (31.8)	1.625 (41.3)
028	36	2.250-16 UN	1.941 (49.3)	1.830 (46.5)	2.469 (62.7)	3.020 (76.7)	2.477 (62.9)	1.437 (36.5)	1.840 (46.7)

Dimensions are in inches (mm).

STEEL TOE PROTECTION FOR YOUR CONNECTORS



Simple & Effective Environmental Protection

A shrink boot is a simple alternative to a metal backshell that is low-profile and provides strain relief and environmental protection. Boots come in straight and 90° configurations and are available in a variety of material options, including flame retardant for specialty applications. Get the look you want with the protection you require.

MILNEC
INTERCONNECT SYSTEMS

Straight EMI/RFI Env. Backshell

TM Series • MIL-DTL-5015 Crimp Type Connectors

TMR2 - 009 N

1 2 3

1 BASIC PART NUMBER

TMR2 Straight EMI/RFI env. backshell

2 DASH NO.

See Backshell Dimensions table below

3 MATERIAL & FINISH

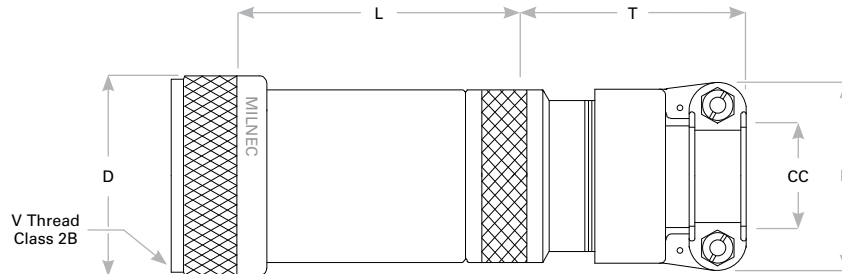
N Aluminum, electroless nickel
W Aluminum, olive drab cadmium



Note: See part builder (p. K-11) for additional kit options.

TMR2 Compatibility

Compatible Brands	Connectors
MIL-DTL-5015 Crimp	MS3450, MS3451, MS3454, MS3456, MS3459
Aero Electric	AE550, AE551, AE554, AE556, AE559
Amphenol / Matrix	9440, 9441, 9444, 9446, 9816
J-Tech / Conesys	DC60, DC61, DC62, DC63
ITT Cannon	CV3450, CV3451, CV3454, CV3456, CV3459



Backshell Dimensions

Dash No.	Shell Size	V Thread Class 2B	T	D	B	L	CC Cable Clearance	
							Min	Max
009	10	.625-24 UNEF	1.544 (39.2)	.730 (18.5)	.957 (24.3)	2.125 (54.0)	.125 (3.2)	.312 (7.9)
010	10	.625-24 UNEF	1.544 (39.2)	.730 (18.5)	.957 (24.3)	3.125 (79.4)	.125 (3.2)	.312 (7.9)
136	10	.625-24 UNEF	1.544 (39.2)	.730 (18.5)	1.145 (29.1)	2.125 (54.0)	.250 (6.4)	.375 (9.5)
137	10	.625-24 UNEF	1.544 (39.2)	.730 (18.5)	1.145 (29.1)	3.125 (79.4)	.250 (6.4)	.375 (9.5)
011	10	.625-24 UNEF	1.544 (39.2)	.730 (18.5)	1.145 (29.1)	2.875 (73.0)	.250 (6.4)	.437 (11.1)
012	10	.625-24 UNEF	1.544 (39.2)	.730 (18.5)	1.145 (29.1)	3.875 (98.4)	.250 (6.4)	.437 (11.1)
114	12	.750-20 UNEF	1.544 (39.2)	.860 (21.8)	.957 (24.3)	2.125 (54.0)	.125 (3.2)	.312 (7.9)
115	12	.750-20 UNEF	1.544 (39.2)	.860 (21.8)	.957 (24.3)	3.125 (54.0)	.125 (3.2)	.312 (7.9)
013	12	.750-20 UNEF	1.544 (39.2)	.860 (21.8)	1.145 (29.1)	2.125 (54.0)	.250 (6.4)	.437 (11.1)
014	12	.750-20 UNEF	1.544 (39.2)	.860 (21.8)	1.145 (29.1)	3.125 (79.4)	.250 (6.4)	.437 (11.1)
111	12	.750-20 UNEF	1.844 (46.8)	.860 (21.8)	1.332 (33.8)	2.125 (54.0)	.350 (8.9)	.500 (12.7)
139	12	.750-20 UNEF	1.844 (46.8)	.860 (21.8)	1.332 (33.8)	3.125 (79.4)	.350 (8.9)	.500 (12.7)
015	12	.750-20 UNEF	1.844 (46.8)	.860 (21.8)	1.332 (33.8)	2.875 (73.0)	.350 (8.9)	.625 (15.9)
016	12	.750-20 UNEF	1.844 (46.8)	.860 (21.8)	1.332 (33.8)	3.875 (98.4)	.350 (8.9)	.625 (15.9)
150	14	.875-20 UNEF	1.544 (39.2)	.980 (24.9)	.957 (24.3)	2.125 (54.0)	.125 (3.2)	.312 (7.9)

Dimensions are in inches (mm).

(Continued on next page)

Rev. 1318.1

Straight EMI/RFI Env. Backshell

TM Series • MIL-DTL-5015 Crimp Type Connectors

Backshell Dimensions (Continued from previous page)

Dash No.	Shell Size	V Thread Class 2B	T	D	B	L	CC Cable Clearance	
							Min	Max
151	14	.875-20 UNEF	1.544 (39.2)	.980 (24.9)	.957 (24.3)	3.125 (79.4)	.125 (3.2)	.312 (7.9)
116	14	.875-20 UNEF	1.544 (39.2)	.980 (24.9)	1.145 (29.1)	2.125 (54.0)	.250 (6.4)	.437 (11.1)
117	14	.875-20 UNEF	1.544 (39.2)	.980 (24.9)	1.145 (29.1)	3.125 (79.4)	.250 (6.4)	.437 (11.1)
017	14	.875-20 UNEF	1.844 (46.8)	.980 (24.9)	1.332 (33.8)	2.125 (54.0)	.350 (8.9)	.575 (14.6)
018	14	.875-20 UNEF	1.844 (46.8)	.980 (24.9)	1.332 (33.8)	3.125 (79.4)	.350 (8.9)	.575 (14.6)
019	14	.875-20 UNEF	1.916 (48.7)	.980 (24.9)	1.551 (39.4)	2.875 (73.0)	.500 (12.7)	.750 (19.1)
020	14	.875-20 UNEF	1.916 (48.7)	.980 (24.9)	1.551 (39.4)	3.875 (98.4)	.500 (12.7)	.750 (19.1)
152	16	1.000-20 UNEF	1.544 (39.2)	1.110 (28.2)	.957 (24.3)	2.125 (54.0)	.125 (3.2)	.312 (7.9)
153	16	1.000-20 UNEF	1.544 (39.2)	1.110 (28.2)	.957 (24.3)	3.125 (79.4)	.125 (3.2)	.312 (7.9)
112	16	1.000-20 UNEF	1.544 (39.2)	1.110 (28.2)	1.145 (29.1)	2.125 (54.0)	.250 (6.4)	.437 (11.1)
113	16	1.000-20 UNEF	1.544 (39.2)	1.110 (28.2)	1.145 (29.1)	3.125 (79.4)	.250 (6.4)	.437 (11.1)
118	16	1.000-20 UNEF	1.844 (46.8)	1.110 (28.2)	1.332 (33.8)	2.125 (54.0)	.350 (8.9)	.625 (15.9)
119	16	1.000-20 UNEF	1.844 (46.8)	1.110 (28.2)	1.332 (33.8)	3.125 (79.4)	.350 (8.9)	.625 (15.9)
021	16	1.000-20 UNEF	1.916 (48.7)	1.110 (28.2)	1.551 (39.4)	2.125 (54.0)	.500 (12.7)	.700 (17.8)
022	16	1.000-20 UNEF	1.916 (48.7)	1.110 (28.2)	1.551 (39.4)	3.125 (79.4)	.500 (12.7)	.700 (17.8)
023	16	1.000-20 UNEF	2.000 (50.8)	1.110 (28.2)	1.770 (45.0)	2.875 (73.0)	.625 (15.9)	.937 (23.8)
024	16	1.000-20 UNEF	2.000 (50.8)	1.110 (28.2)	1.770 (45.0)	3.875 (98.4)	.625 (15.9)	.937 (23.8)
120	18	1.062-18 UNEF	1.544 (39.2)	1.220 (31.0)	.957 (24.3)	2.125 (54.0)	.125 (3.2)	.312 (7.9)
121	18	1.062-18 UNEF	1.544 (39.2)	1.220 (31.0)	.957 (24.3)	3.125 (79.4)	.125 (3.2)	.312 (7.9)
122	18	1.062-18 UNEF	1.544 (39.2)	1.220 (31.0)	1.145 (29.1)	2.125 (54.0)	.250 (6.4)	.437 (11.1)
123	18	1.062-18 UNEF	1.544 (39.2)	1.220 (31.0)	1.145 (29.1)	3.125 (79.4)	.250 (6.4)	.437 (11.1)
025	18	1.062-18 UNEF	1.844 (46.8)	1.220 (31.0)	1.332 (33.8)	2.125 (54.0)	.350 (8.9)	.625 (15.9)
026	18	1.062-18 UNEF	1.844 (46.8)	1.220 (31.0)	1.332 (33.8)	3.125 (79.4)	.350 (8.9)	.625 (15.9)
027	18	1.062-18 UNEF	1.916 (48.7)	1.220 (31.0)	1.551 (39.4)	2.125 (54.0)	.500 (12.7)	.750 (19.1)
028	18	1.062-18 UNEF	1.916 (48.7)	1.220 (31.0)	1.551 (39.4)	3.125 (79.4)	.500 (12.7)	.750 (19.1)
029	18	1.062-18 UNEF	2.000 (50.8)	1.220 (31.0)	1.770 (45.0)	2.875 (73.0)	.625 (15.9)	.937 (23.8)
030	18	1.062-18 UNEF	2.000 (50.8)	1.220 (31.0)	1.770 (45.0)	3.875 (98.4)	.625 (15.9)	.937 (23.8)
124	20	1.188-18 UNEF	1.544 (39.2)	1.340 (34.0)	1.145 (29.1)	3.125 (79.4)	.250 (6.4)	.437 (11.1)
125	20	1.188-18 UNEF	1.544 (39.2)	1.340 (34.0)	1.145 (29.1)	4.125 (104.8)	.250 (6.4)	.437 (11.1)
031	20	1.188-18 UNEF	1.844 (46.8)	1.340 (34.0)	1.332 (33.8)	3.125 (79.4)	.350 (8.9)	.625 (15.9)
032	20	1.188-18 UNEF	1.844 (46.8)	1.340 (34.0)	1.332 (33.8)	4.125 (104.8)	.350 (8.9)	.625 (15.9)
033	20	1.188-18 UNEF	1.916 (48.7)	1.340 (34.0)	1.551 (39.4)	3.125 (79.4)	.500 (12.7)	.750 (19.1)
034	20	1.188-18 UNEF	1.916 (48.7)	1.340 (34.0)	1.551 (39.4)	4.125 (104.8)	.500 (12.7)	.750 (19.1)
140	20	1.188-18 UNEF	2.000 (50.8)	1.340 (34.0)	1.770 (45.0)	3.125 (79.4)	.625 (15.9)	.904 (23.0)
141	20	1.188-18 UNEF	2.000 (50.8)	1.340 (34.0)	1.770 (45.0)	4.125 (104.8)	.625 (15.9)	.904 (23.0)
035	20	1.188-18 UNEF	2.000 (50.8)	1.340 (34.0)	1.770 (45.0)	3.875 (98.4)	.625 (15.9)	.937 (23.8)
036	20	1.188-18 UNEF	2.000 (50.8)	1.340 (34.0)	1.770 (45.0)	4.875 (123.8)	.625 (15.9)	.937 (23.8)
037	20	1.188-18 UNEF	2.230 (56.6)	1.340 (34.0)	2.113 (53.7)	3.875 (98.4)	.875 (22.2)	1.250 (31.8)
038	20	1.188-18 UNEF	2.230 (56.6)	1.340 (34.0)	2.113 (53.7)	4.875 (123.8)	.875 (22.2)	1.250 (31.8)
126	22	1.313-18 UNEF	1.544 (39.2)	1.470 (37.3)	.957 (24.3)	3.125 (79.4)	.125 (3.2)	.312 (7.9)
127	22	1.313-18 UNEF	1.544 (39.2)	1.470 (37.3)	.957 (24.3)	4.125 (104.8)	.125 (3.2)	.312 (7.9)
128	22	1.313-18 UNEF	1.544 (39.2)	1.470 (37.3)	1.145 (29.1)	3.125 (79.4)	.250 (6.4)	.437 (11.1)
129	22	1.313-18 UNEF	1.544 (39.2)	1.470 (37.3)	1.145 (29.1)	4.125 (104.8)	.250 (6.4)	.437 (11.1)
039	22	1.313-18 UNEF	1.844 (46.8)	1.470 (37.3)	1.332 (33.8)	3.125 (79.4)	.350 (8.9)	.625 (15.9)
040	22	1.313-18 UNEF	1.844 (46.8)	1.470 (37.3)	1.332 (33.8)	4.125 (104.8)	.350 (8.9)	.625 (15.9)
041	22	1.313-18 UNEF	1.916 (48.7)	1.470 (37.3)	1.551 (39.4)	3.125 (79.4)	.500 (12.7)	.750 (19.1)
042	22	1.313-18 UNEF	1.916 (48.7)	1.470 (37.3)	1.551 (39.4)	4.125 (104.8)	.500 (12.7)	.750 (19.1)
043	22	1.313-18 UNEF	2.000 (50.8)	1.470 (37.3)	1.770 (45.0)	3.125 (79.4)	.625 (15.9)	.937 (23.8)

Dimensions are in inches (mm).

(Continued on next page)

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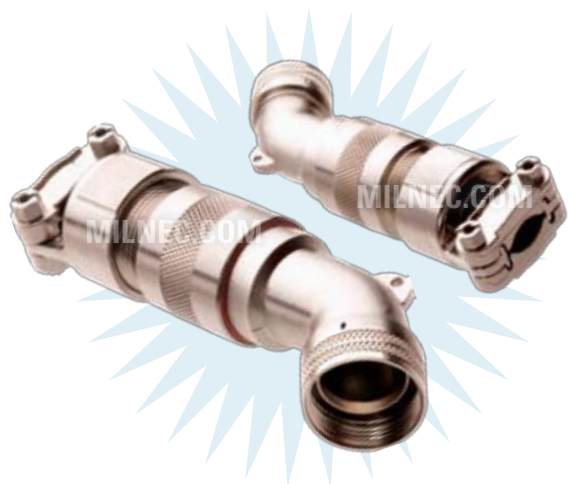
Backshell Dimensions (Continued from previous page)

Dash No.	Shell Size	V Thread Class 2B	T	D	B	L	CC Cable Clearance	
							Min	Max
044	22	1.313-18 UNEF	2.000 (50.8)	1.470 (37.3)	1.770 (45.0)	4.125 (104.8)	.625 (15.9)	.937 (23.8)
142	22	1.313-18 UNEF	2.230 (56.6)	1.470 (37.3)	2.113 (53.7)	3.125 (79.4)	.875 (22.2)	1.029 (26.1)
143	22	1.313-18 UNEF	2.230 (56.6)	1.470 (37.3)	2.113 (53.7)	4.125 (104.8)	.875 (22.2)	1.029 (26.1)
045	22	1.313-18 UNEF	2.230 (56.6)	1.470 (37.3)	2.113 (53.7)	3.875 (98.4)	.875 (22.2)	1.250 (31.8)
046	22	1.313-18 UNEF	2.230 (56.6)	1.470 (37.3)	2.113 (53.7)	4.875 (123.8)	.875 (22.2)	1.250 (31.8)
130	24	1.438-18 UNEF	1.844 (46.8)	1.590 (40.4)	1.332 (33.8)	3.125 (79.4)	.350 (8.9)	.625 (15.9)
131	24	1.438-18 UNEF	1.844 (46.8)	1.590 (40.4)	1.332 (33.8)	4.125 (104.8)	.350 (8.9)	.625 (15.9)
047	24	1.438-18 UNEF	1.916 (48.7)	1.590 (40.4)	1.551 (39.4)	3.125 (79.4)	.500 (12.7)	.750 (19.1)
048	24	1.438-18 UNEF	1.916 (48.7)	1.590 (40.4)	1.551 (39.4)	4.125 (104.8)	.500 (12.7)	.750 (19.1)
049	24	1.438-18 UNEF	2.000 (50.8)	1.590 (40.4)	1.770 (45.0)	3.125 (79.4)	.625 (15.9)	.812 (20.6)
050	24	1.438-18 UNEF	2.000 (50.8)	1.590 (40.4)	1.770 (45.0)	4.125 (104.8)	.625 (15.9)	.812 (20.6)
051	24	1.438-18 UNEF	2.000 (50.8)	1.590 (40.4)	1.770 (45.0)	3.125 (79.4)	.625 (15.9)	.812 (20.6)
052	24	1.438-18 UNEF	2.000 (50.8)	1.590 (40.4)	1.770 (45.0)	4.125 (104.8)	.625 (15.9)	.812 (20.6)
144	24	1.438-18 UNEF	2.230 (56.6)	1.590 (40.4)	2.113 (53.7)	3.125 (79.4)	.875 (22.2)	1.144 (29.1)
145	24	1.438-18 UNEF	2.230 (56.6)	1.590 (40.4)	2.113 (53.7)	4.125 (104.8)	.875 (22.2)	1.144 (29.1)
053	24	1.438-18 UNEF	2.230 (56.6)	1.590 (40.4)	2.113 (53.7)	3.875 (98.4)	.875 (22.2)	1.250 (31.8)
054	24	1.438-18 UNEF	2.230 (56.6)	1.590 (40.4)	2.113 (53.7)	4.875 (123.8)	.875 (22.2)	1.250 (31.8)
055	28	1.750-18 UNS	1.916 (48.7)	1.970 (50.0)	1.551 (39.4)	3.125 (79.4)	.500 (12.7)	.750 (19.1)
056	28	1.750-18 UNS	1.916 (48.7)	1.970 (50.0)	1.551 (39.4)	4.125 (104.8)	.500 (12.7)	.750 (19.1)
057	28	1.750-18 UNS	2.000 (50.8)	1.970 (50.0)	1.770 (45.0)	3.125 (79.4)	.625 (15.9)	.937 (23.8)
058	28	1.750-18 UNS	2.000 (50.8)	1.970 (50.0)	1.770 (45.0)	4.125 (104.8)	.625 (15.9)	.937 (23.8)
059	28	1.750-18 UNS	2.230 (56.6)	1.970 (50.0)	2.113 (53.7)	3.125 (79.4)	.875 (22.2)	1.250 (31.8)
060	28	1.750-18 UNS	2.230 (56.6)	1.970 (50.0)	2.113 (53.7)	4.125 (104.8)	.875 (22.2)	1.250 (31.8)
061	28	1.750-18 UNS	2.024 (51.4)	1.970 (50.0)	2.363 (60.0)	3.125 (79.4)	1.000 (25.4)	1.375 (34.9)
062	28	1.750-18 UNS	2.024 (51.4)	1.970 (50.0)	2.363 (60.0)	4.125 (104.8)	1.000 (25.4)	1.375 (34.9)
063	32	2.000-18 UNS	2.000 (50.8)	2.220 (56.4)	1.770 (45.0)	3.125 (79.4)	.625 (15.9)	.937 (23.8)
064	32	2.000-18 UNS	2.000 (50.8)	2.220 (56.4)	1.770 (45.0)	4.125 (104.8)	.625 (15.9)	.937 (23.8)
065	32	2.000-18 UNS	2.230 (56.6)	2.220 (56.4)	2.113 (53.7)	3.125 (79.4)	.875 (22.2)	1.250 (31.8)
066	32	2.000-18 UNS	2.230 (56.6)	2.220 (56.4)	2.113 (53.7)	4.125 (104.8)	.875 (22.2)	1.250 (31.8)
067	32	2.000-18 UNS	2.024 (51.4)	2.220 (56.4)	2.363 (60.0)	3.125 (79.4)	1.000 (25.4)	1.375 (34.9)
068	32	2.000-18 UNS	2.024 (51.4)	2.220 (56.4)	2.363 (60.0)	4.125 (104.8)	1.000 (25.4)	1.375 (34.9)
069	32	2.000-18 UNS	2.550 (64.8)	2.220 (56.4)	2.770 (70.4)	3.125 (79.4)	1.250 (31.8)	1.625 (41.3)
070	32	2.000-18 UNS	2.550 (64.8)	2.220 (56.4)	2.770 (70.4)	4.125 (104.8)	1.250 (31.8)	1.625 (41.3)
132	36	2.250-16 UN	1.916 (48.7)	2.470 (62.7)	1.551 (39.4)	4.125 (104.8)	.500 (12.7)	.750 (19.1)
133	36	2.250-16 UN	1.916 (48.7)	2.470 (62.7)	1.551 (39.4)	5.125 (130.2)	.500 (12.7)	.750 (19.1)
148	36	2.250-16 UN	2.000 (50.8)	2.470 (62.7)	1.770 (45.0)	4.125 (104.8)	.625 (15.9)	.937 (23.8)
149	36	2.250-16 UN	2.000 (50.8)	2.470 (62.7)	1.770 (45.0)	5.125 (130.2)	.625 (15.9)	.937 (23.8)
071	36	2.250-16 UN	2.230 (56.6)	2.470 (62.7)	2.113 (53.7)	4.125 (104.8)	.875 (22.2)	1.250 (31.8)
072	36	2.250-16 UN	2.230 (56.6)	2.470 (62.7)	2.113 (53.7)	5.125 (130.2)	.875 (22.2)	1.250 (31.8)
073	36	2.250-16 UN	2.024 (51.4)	2.470 (62.7)	2.363 (60.0)	4.125 (104.8)	1.000 (25.4)	1.375 (34.9)
074	36	2.250-16 UN	2.024 (51.4)	2.470 (62.7)	2.363 (60.0)	5.125 (130.2)	1.000 (25.4)	1.375 (34.9)
075	36	2.250-16 UN	2.550 (64.8)	2.470 (62.7)	2.770 (70.4)	4.125 (104.8)	1.250 (31.8)	1.625 (41.3)
076	36	2.250-16 UN	2.550 (64.8)	2.470 (62.7)	2.770 (70.4)	5.125 (130.2)	1.250 (31.8)	1.625 (41.3)
146	36	2.250-16 UN	2.600 (66.0)	2.470 (62.7)	3.020 (76.7)	4.125 (104.8)	1.437 (36.5)	1.840 (46.7)
147	36	2.250-16 UN	2.600 (66.0)	2.470 (62.7)	3.020 (76.7)	5.125 (130.2)	1.437 (36.5)	1.840 (46.7)
077	36	2.250-16 UN	2.600 (66.0)	2.470 (62.7)	3.020 (76.7)	5.000 (127.0)	1.437 (36.5)	1.875 (47.6)
078	36	2.250-16 UN	2.600 (66.0)	2.470 (62.7)	3.020 (76.7)	6.000 (152.4)	1.437 (36.5)	1.875 (47.6)

Dimensions are in inches (mm).

Rev. 1318.1

TM Series • MIL-DTL-5015 Crimp Type Connectors



TMR3 - 009 N

-
- 1 BASIC PART NUMBER**
TMR3 45° EMI/RFI
- 2 DASH NO.**
See Backshell Dimension
- 3 MATERIAL & FINISH**

TMR3 45° EMI/RFI env. backshell

See Backshell Dimensions table below

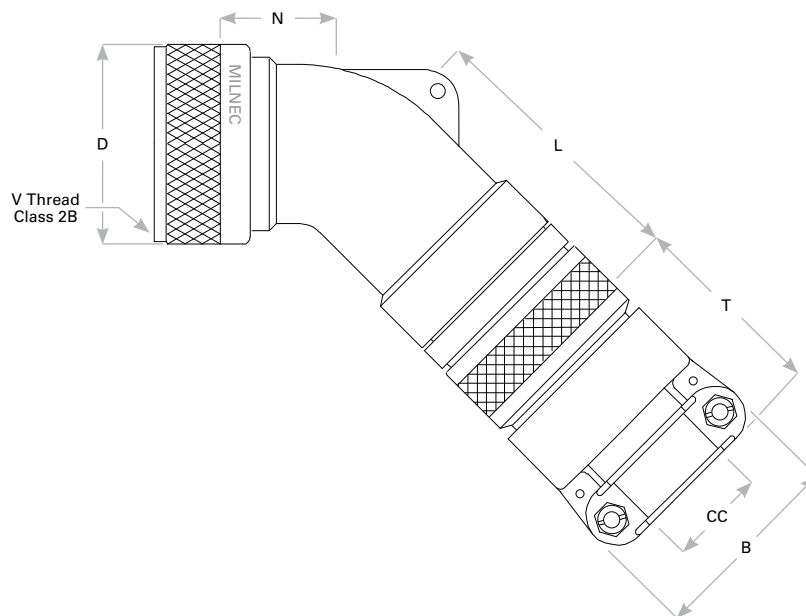
N Aluminum, electroless nickel

W Aluminum, olive drab cadmium

Note: See part builder (p. K-11) for additional kit options.

TMR3 Compatibility

Compatible Brands	Connectors
MIL-DTL-5015 Crimp	MS3450, MS3451, MS3454, MS3456, MS3459
Aero Electric	AE550, AE551, AE554, AE556, AE559
Amphenol / Matrix	9440, 9441, 9444, 9446, 9816
J-Tech / Conesys	DC60, DC61, DC62, DC63
ITT Cannon	CV3450, CV3451, CV3454, CV3456, CV3459



Backshell Dimensions

Dash No.	Shell Size	V Thread Class 2B	N	T	D	B	L	CC Cable Clearance	
								Min	Max
004	10	.625-24 UNEF	.686 (17.4)	1.544 (39.2)	.734 (18.6)	.957 (24.3)	1.912 (48.6)	.125 (3.2)	.312 (7.9)
005	10	.625-24 UNEF	.686 (17.4)	1.544 (39.2)	.734 (18.6)	1.145 (29.1)	1.307 (33.2)	.250 (6.4)	.375 (9.5)
049	10	.625-24 UNEF	1.500 (38.1)	1.544 (39.2)	.734 (18.6)	1.145 (29.1)	1.972 (50.1)	.250 (6.4)	.437 (11.1)
006	12	.750-20 UNEF	.750 (19.1)	1.544 (39.2)	.858 (21.8)	.957 (24.3)	1.972 (50.1)	.125 (3.2)	.312 (7.9)
007	12	.750-20 UNEF	.750 (19.1)	1.544 (39.2)	.858 (21.8)	1.145 (29.1)	1.972 (50.1)	.250 (6.4)	.437 (11.1)

Dimensions are in inches (mm).

(Continued on next page)

Rev 1318.1

Backshell Dimensions (Continued from previous page)

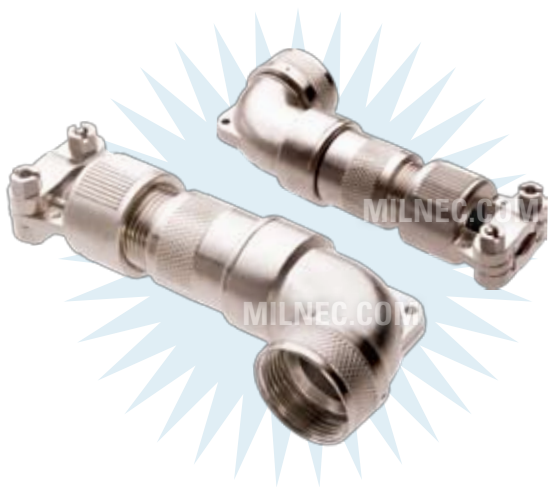
Dash No.	Shell Size	V Thread Class 2B	N	T	D	B	L	CC Cable Clearance	
								Min	Max
008	12	.750-20 UNEF	.750 (19.1)	1.844 (46.8)	.858 (21.8)	1.332 (33.8)	1.972 (50.1)	.350 (8.9)	.500 (12.7)
071	12	.750-20 UNEF	1.654 (42.0)	1.844 (46.8)	.858 (21.8)	1.332 (33.8)	2.172 (55.2)	.350 (8.9)	.625 (15.9)
074	14	.875-20 UNEF	.813 (20.7)	1.544 (39.2)	.984 (25.0)	.957 (24.3)	2.062 (52.4)	.125 (3.2)	.312 (7.9)
009	14	.875-20 UNEF	.813 (20.7)	1.544 (39.2)	.984 (25.0)	1.145 (29.1)	2.062 (52.4)	.250 (6.4)	.437 (11.1)
010	14	.875-20 UNEF	.813 (20.7)	1.844 (46.8)	.984 (25.0)	1.332 (33.8)	1.717 (43.6)	.350 (8.9)	.575 (14.6)
050	14	.875-20 UNEF	1.842 (46.8)	1.916 (48.7)	.984 (25.0)	1.551 (39.4)	2.362 (60.0)	.500 (12.7)	.750 (19.1)
075	16	1.000-20 UNEF	.906 (23.0)	1.544 (39.2)	1.112 (28.2)	.957 (24.3)	2.172 (55.2)	.125 (3.2)	.312 (7.9)
011	16	1.000-20 UNEF	.906 (23.0)	1.544 (39.2)	1.112 (28.2)	1.145 (29.1)	2.172 (55.2)	.250 (6.4)	.437 (11.1)
040	16	1.000-20 UNEF	.906 (23.0)	1.844 (46.8)	1.112 (28.2)	1.332 (33.8)	2.172 (55.2)	.350 (8.9)	.625 (16.9)
012	16	1.000-20 UNEF	.906 (23.0)	1.916 (48.7)	1.112 (28.2)	1.551 (39.4)	1.812 (46.0)	.500 (12.7)	.700 (17.8)
051	16	1.000-20 UNEF	1.937 (49.2)	2.000 (50.8)	1.112 (28.2)	1.770 (45.0)	2.512 (63.8)	.625 (15.9)	.937 (23.8)
041	18	1.062-18 UNEF	1.093 (27.8)	1.544 (39.2)	1.218 (30.9)	.957 (24.3)	2.362 (60.0)	.125 (3.2)	.312 (7.9)
042	18	1.062-18 UNEF	1.093 (27.8)	1.544 (39.2)	1.218 (30.9)	1.145 (29.1)	2.362 (60.0)	.250 (6.4)	.437 (11.1)
013	18	1.062-18 UNEF	1.093 (27.8)	1.844 (46.8)	1.218 (30.9)	1.332 (33.8)	2.362 (60.0)	.350 (8.9)	.625 (15.9)
052	18	1.062-18 UNEF	1.093 (27.8)	1.916 (48.7)	1.218 (30.9)	1.551 (39.4)	2.362 (60.0)	.500 (12.7)	.750 (19.1)
014	18	1.062-18 UNEF	1.093 (27.8)	2.000 (50.8)	1.218 (30.9)	1.770 (45.0)	2.000 (50.8)	.625 (15.9)	.779 (19.8)
072	18	1.062-18 UNEF	1.937 (49.2)	2.000 (50.8)	1.218 (30.9)	1.770 (45.0)	2.512 (63.8)	.625 (15.9)	.937 (23.8)
043	20	1.188-18 UNEF	1.093 (27.8)	1.544 (39.2)	1.345 (34.2)	1.145 (29.1)	2.362 (60.0)	.250 (6.4)	.437 (11.1)
015	20	1.188-18 UNEF	1.093 (27.8)	1.844 (46.8)	1.345 (34.2)	1.332 (33.8)	2.362 (60.0)	.350 (8.9)	.625 (15.9)
054	20	1.188-18 UNEF	1.093 (27.8)	1.916 (48.7)	1.345 (34.2)	1.551 (39.4)	2.362 (60.0)	.500 (12.7)	.750 (19.1)
016	20	1.188-18 UNEF	1.093 (27.8)	2.000 (50.8)	1.345 (34.2)	1.770 (45.0)	2.000 (50.8)	.625 (15.9)	.904 (23.0)
055	20	1.188-18 UNEF	2.061 (52.3)	2.230 (56.6)	1.345 (34.2)	2.113 (53.7)	2.562 (65.1)	.875 (22.2)	1.250 (31.8)
044	22	1.313-18 UNEF	1.188 (30.2)	1.544 (39.2)	1.468 (37.3)	.957 (24.3)	2.512 (63.8)	.125 (3.2)	.312 (7.9)
045	22	1.313-18 UNEF	1.188 (30.2)	1.544 (39.2)	1.468 (37.3)	1.145 (29.1)	2.512 (63.8)	.250 (6.4)	.437 (11.1)
056	22	1.313-18 UNEF	1.188 (30.2)	1.844 (46.8)	1.468 (37.3)	1.332 (33.8)	2.512 (63.8)	.350 (8.9)	.625 (15.9)
017	22	1.313-18 UNEF	1.188 (30.2)	1.916 (48.7)	1.468 (37.3)	1.551 (39.4)	2.512 (63.8)	.500 (12.7)	.750 (19.1)
057	22	1.313-18 UNEF	1.188 (30.2)	2.000 (50.8)	1.468 (37.3)	1.770 (45.0)	2.512 (63.8)	.625 (15.9)	.937 (23.8)
018	22	1.313-18 UNEF	1.188 (30.2)	2.230 (56.6)	1.468 (37.3)	2.113 (53.7)	2.155 (54.7)	.875 (22.2)	1.029 (26.1)
058	22	1.313-18 UNEF	2.061 (52.3)	2.230 (56.6)	1.468 (37.3)	2.113 (53.7)	2.562 (65.1)	.875 (22.2)	1.250 (31.8)
046	24	1.438-18 UNEF	1.188 (30.2)	1.844 (46.8)	1.593 (40.5)	1.332 (33.8)	2.512 (63.8)	.350 (8.9)	.625 (15.9)
019	24	1.438-18 UNEF	1.188 (30.2)	1.916 (48.7)	1.593 (40.5)	1.551 (39.4)	2.512 (63.8)	.500 (12.7)	.750 (19.1)
059	24	1.438-18 UNEF	1.188 (30.2)	2.000 (50.8)	1.593 (40.5)	1.770 (45.0)	2.512 (63.8)	.625 (15.9)	.937 (23.8)
020	24	1.438-18 UNEF	1.188 (30.2)	2.230 (56.6)	1.593 (40.5)	2.113 (53.7)	2.155 (54.7)	.875 (22.2)	1.144 (29.1)
073	24	1.438-18 UNEF	2.061 (52.3)	2.230 (56.6)	1.593 (40.5)	2.116 (53.7)	2.562 (65.1)	.875 (22.2)	1.250 (31.8)
060	28	1.750-18 UNS	1.313 (33.4)	1.916 (48.7)	1.969 (50.0)	1.551 (39.4)	2.562 (65.1)	.500 (12.7)	.750 (19.1)
021	28	1.750-18 UNS	1.313 (33.4)	2.000 (50.8)	1.969 (50.0)	1.770 (45.0)	2.562 (65.1)	.625 (15.9)	.937 (23.8)
061	28	1.750-18 UNS	1.313 (33.4)	2.230 (56.6)	1.969 (50.0)	2.113 (53.7)	2.562 (65.1)	.875 (22.2)	1.250 (31.8)
022	28	1.750-18 UNS	1.312 (33.3)	2.024 (51.4)	1.969 (50.0)	2.363 (60.0)	2.218 (56.3)	1.000 (25.4)	1.375 (34.9)
023	32	2.000-18 UNS	1.375 (34.9)	2.000 (50.8)	2.219 (56.4)	1.770 (45.0)	2.662 (67.6)	.625 (15.9)	.937 (23.8)
024	32	2.000-18 UNS	1.375 (34.9)	2.230 (56.6)	2.219 (56.4)	2.113 (53.7)	2.662 (67.6)	.875 (22.2)	1.250 (31.8)
062	32	2.000-18 UNS	1.375 (34.9)	2.024 (51.4)	2.219 (56.4)	2.363 (60.0)	2.662 (67.6)	1.000 (25.4)	1.375 (34.9)
025	32	2.000-18 UNS	1.375 (34.9)	2.550 (64.8)	2.219 (56.4)	2.770 (70.4)	2.312 (58.7)	1.250 (31.8)	1.625 (41.3)
047	36	2.250-16 UN	1.406 (35.7)	1.916 (48.7)	2.469 (62.7)	1.551 (39.4)	2.752 (69.9)	.500 (12.7)	.750 (19.1)
026	36	2.250-16 UN	1.406 (35.7)	2.000 (50.8)	2.469 (62.7)	1.770 (45.0)	2.752 (69.9)	.625 (15.9)	.937 (23.8)
063	36	2.250-16 UN	1.406 (35.7)	2.230 (56.6)	2.469 (62.7)	2.113 (53.7)	2.752 (69.9)	.875 (22.2)	1.250 (31.8)
027	36	2.250-16 UN	1.406 (35.7)	2.024 (51.4)	2.469 (62.7)	2.363 (60.0)	2.752 (69.9)	1.000 (25.4)	1.375 (34.9)
064	36	2.250-16 UN	1.406 (35.7)	2.550 (64.8)	2.469 (62.7)	2.770 (70.4)	2.752 (69.9)	1.250 (31.8)	1.625 (41.3)
028	36	2.250-16 UN	1.406 (35.7)	2.600 (66.0)	2.469 (62.7)	3.020 (76.7)	2.406 (61.1)	1.437 (36.5)	1.840 (46.7)

Dimensions are in inches (mm).

Rev. 1318.1

90° EMI/RFI Env. Backshell

TM Series • MIL-DTL-5015 Crimp Type Connectors



TMR4 - 009 N

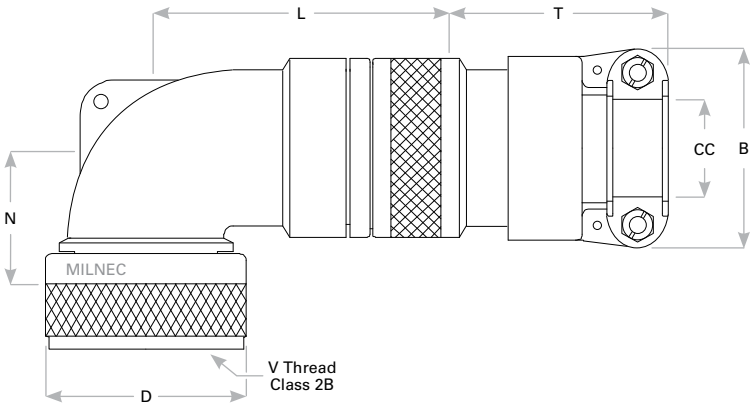
- 1
- 2
- 3
- 1
- 2
- 3
- BASIC PART NUMBER**
TMR4 90° EMI/RFI env. backshell
- DASH NO.**
See Backshell Dimensions table below
- MATERIAL & FINISH**

- N
- W
- Aluminum, electroless nickel
- Aluminum, olive drab cadmium

Note: See part builder (p. K-11) for additional kit options.

TMR4 Compatibility

Compatible Brands	Connectors
MIL-DTL-5015 Crimp	MS3450, MS3451, MS3454, MS3456, MS3459
Aero Electric	AE550, AE551, AE554, AE556, AE559
Amphenol / Matrix	9440, 9441, 9444, 9446, 9816
J-Tech / Conesys	DC60, DC61, DC62, DC63
ITT Cannon	CV3450, CV3451, CV3454, CV3456, CV3459



Backshell Dimensions

Dash No.	Shell Size	V Thread Class 2B	N	T	D	B	L	CC Cable Clearance	
								Min	Max
004	10	.625-24 UNEF	.761 (19.3)	1.544 (39.2)	.730 (18.5)	.957 (24.3)	1.982 (50.3)	.125 (3.2)	.312 (7.9)
005	10	.625-24 UNEF	.761 (19.3)	1.544 (39.2)	.730 (18.5)	1.145 (29.1)	1.382 (35.1)	.250 (6.4)	.375 (9.5)
049	10	.625-24 UNEF	1.516 (38.5)	1.544 (39.2)	.730 (18.5)	1.145 (29.1)	2.002 (50.9)	.250 (6.4)	.437 (11.1)
006	12	.750-20 UNEF	.766 (19.5)	1.544 (39.2)	.860 (21.8)	.957 (24.3)	2.002 (50.9)	.125 (3.2)	.312 (7.9)
007	12	.750-20 UNEF	.766 (19.5)	1.544 (39.2)	.860 (21.8)	1.145 (29.1)	2.002 (50.9)	.250 (6.4)	.437 (11.1)
008	12	.750-20 UNEF	.766 (19.5)	1.844 (46.8)	.860 (21.8)	1.332 (33.8)	1.397 (35.5)	.350 (8.9)	.500 (12.7)
071	12	.750-20 UNEF	1.811 (46.0)	1.844 (46.8)	.860 (21.8)	1.332 (33.8)	2.162 (54.9)	.350 (8.9)	.625 (15.9)
074	14	.875-20 UNEF	.866 (22.0)	1.544 (39.2)	.980 (24.9)	.957 (24.3)	2.072 (52.6)	.125 (3.2)	.312 (7.9)
009	14	.875-20 UNEF	.866 (22.0)	1.544 (39.2)	.980 (24.9)	1.145 (29.1)	2.072 (52.6)	.250 (6.4)	.437 (11.1)
010	14	.875-20 UNEF	.866 (22.0)	1.844 (46.8)	.980 (24.9)	1.332 (33.8)	1.717 (43.6)	.350 (8.9)	.575 (14.6)
050	14	.875-20 UNEF	1.891 (48.0)	1.916 (48.7)	.980 (24.9)	1.551 (39.4)	2.332 (59.2)	.500 (12.7)	.750 (19.1)

Dimensions are in inches (mm). (Continued on next page)

Backshell Dimensions (Continued from previous page)

Dash No.	Shell Size	V Thread Class 2B	N	T	D	B	L	CC Cable Clearance	
								Min	Max
075	16	1.000-20 UNEF	1.051 (26.7)	1.544 (39.2)	1.110 (28.2)	.957 (24.3)	2.162 (54.9)	.125 (3.2)	.312 (7.9)
011	16	1.000-20 UNEF	1.051 (26.7)	1.544 (39.2)	1.110 (28.2)	1.145 (29.1)	2.162 (54.9)	.250 (6.4)	.437 (11.1)
040	16	1.000-20 UNEF	1.051 (26.7)	1.844 (46.8)	1.110 (28.2)	1.332 (33.8)	2.162 (54.9)	.350 (8.9)	.625 (15.9)
012	16	1.000-20 UNEF	1.051 (26.7)	1.916 (48.7)	1.110 (28.2)	1.551 (39.4)	1.807 (45.9)	.500 (12.7)	.700 (17.8)
051	16	1.000-20 UNEF	2.041 (51.8)	2.000 (50.8)	1.110 (28.2)	1.770 (45.0)	2.442 (62.0)	.625 (15.9)	.937 (23.8)
041	18	1.062-18 UNEF	1.141 (29.0)	1.544 (39.2)	1.220 (31.0)	.957 (24.3)	2.332 (59.2)	.125 (3.2)	.312 (7.9)
042	18	1.062-18 UNEF	1.141 (29.0)	1.544 (39.2)	1.220 (31.0)	1.145 (29.1)	2.332 (59.2)	.250 (6.4)	.437 (11.1)
013	18	1.062-18 UNEF	1.141 (29.0)	1.844 (46.8)	1.220 (31.0)	1.332 (33.8)	2.332 (59.2)	.350 (8.9)	.625 (15.9)
052	18	1.062-18 UNEF	1.141 (29.0)	1.916 (48.7)	1.220 (31.0)	1.551 (39.4)	2.332 (59.2)	.500 (12.7)	.750 (19.1)
014	18	1.062-18 UNEF	1.141 (29.0)	2.000 (50.8)	1.220 (31.0)	1.770 (45.0)	1.982 (50.3)	.625 (15.9)	.779 (19.8)
072	18	1.062-18 UNEF	2.051 (52.1)	2.000 (50.8)	1.220 (31.0)	1.770 (45.0)	2.442 (62.0)	.625 (15.9)	.937 (23.8)
043	20	1.188-18 UNEF	1.141 (29.0)	1.544 (39.2)	1.340 (34.0)	1.145 (29.1)	2.332 (59.2)	.250 (6.4)	.437 (11.1)
015	20	1.188-18 UNEF	1.141 (29.0)	1.844 (46.8)	1.340 (34.0)	1.332 (33.8)	2.332 (59.2)	.350 (8.9)	.625 (15.9)
054	20	1.188-18 UNEF	1.141 (29.0)	1.916 (48.7)	1.340 (34.0)	1.551 (39.4)	2.332 (59.2)	.500 (12.7)	.750 (19.1)
016	20	1.188-18 UNEF	1.141 (29.0)	2.000 (50.8)	1.340 (34.0)	1.770 (45.0)	1.982 (50.3)	.625 (15.9)	.904 (23.0)
055	20	1.188-18 UNEF	2.141 (54.4)	2.230 (56.6)	1.340 (34.0)	2.113 (53.7)	2.612 (66.3)	.875 (22.2)	1.250 (31.8)
044	22	1.313-18 UNEF	1.291 (32.8)	1.544 (39.2)	1.470 (37.3)	.957 (24.3)	2.442 (62.0)	.125 (3.2)	.312 (7.9)
045	22	1.313-18 UNEF	1.291 (32.8)	1.544 (39.2)	1.470 (37.3)	1.145 (29.1)	2.442 (62.0)	.250 (6.4)	.437 (11.1)
056	22	1.313-18 UNEF	1.291 (32.8)	1.844 (46.8)	1.470 (37.3)	1.332 (33.8)	2.442 (62.0)	.350 (8.9)	.625 (15.9)
017	22	1.313-18 UNEF	1.291 (32.8)	1.916 (48.7)	1.470 (37.3)	1.551 (39.4)	2.442 (62.0)	.500 (12.7)	.750 (19.1)
057	22	1.313-18 UNEF	1.291 (32.8)	2.000 (50.8)	1.470 (37.3)	1.770 (45.0)	2.442 (62.0)	.625 (15.9)	.937 (23.8)
018	22	1.313-18 UNEF	1.291 (32.8)	2.230 (56.6)	1.470 (37.3)	2.113 (53.7)	2.087 (53.0)	.875 (22.2)	1.029 (26.1)
058	22	1.313-18 UNEF	2.141 (54.4)	2.230 (56.6)	1.470 (37.3)	2.113 (53.7)	2.612 (66.3)	.875 (22.2)	1.250 (31.8)
046	24	1.438-18 UNEF	1.291 (32.8)	1.844 (46.8)	1.590 (40.4)	1.332 (33.8)	2.442 (62.0)	.350 (8.9)	.625 (15.9)
019	24	1.438-18 UNEF	1.291 (32.8)	1.916 (48.7)	1.590 (40.4)	1.551 (39.4)	2.442 (62.0)	.500 (12.7)	.750 (19.1)
059	24	1.438-18 UNEF	1.291 (32.8)	2.000 (50.8)	1.590 (40.4)	1.770 (45.0)	2.442 (62.0)	.625 (15.9)	.937 (23.8)
020	24	1.438-18 UNEF	1.291 (32.8)	2.230 (56.6)	1.590 (40.4)	2.113 (53.7)	2.087 (53.0)	.875 (22.2)	1.144 (29.1)
073	24	1.438-18 UNEF	2.151 (54.6)	2.230 (56.6)	1.590 (40.4)	2.116 (53.7)	2.612 (66.3)	.875 (22.2)	1.250 (31.8)
060	28	1.750-18 UNS	1.391 (35.3)	1.916 (48.7)	1.970 (50.0)	1.551 (39.4)	2.612 (66.3)	.500 (12.7)	.750 (19.1)
021	28	1.750-18 UNS	1.391 (35.3)	2.000 (50.8)	1.970 (50.0)	1.770 (45.0)	2.612 (66.3)	.625 (15.9)	.937 (23.8)
061	28	1.750-18 UNS	1.391 (35.3)	2.230 (56.6)	1.970 (50.0)	2.113 (53.7)	2.612 (66.3)	.875 (22.2)	1.250 (31.8)
022	28	1.750-18 UNS	1.391 (35.3)	2.024 (51.4)	1.970 (50.0)	2.363 (60.0)	2.257 (57.3)	1.000 (25.4)	1.375 (34.9)
023	32	2.000-18 UNS	1.741 (44.2)	2.000 (50.8)	2.220 (56.4)	1.770 (45.0)	2.862 (72.7)	.625 (15.9)	.937 (23.8)
024	32	2.000-18 UNS	1.741 (44.2)	2.230 (56.6)	2.220 (56.4)	2.113 (53.7)	2.862 (72.7)	.875 (22.2)	1.250 (31.8)
062	32	2.000-18 UNS	1.741 (44.2)	2.024 (51.4)	2.220 (56.4)	2.363 (60.0)	2.862 (72.7)	1.000 (25.4)	1.375 (34.9)
025	32	2.000-18 UNS	1.741 (44.2)	2.550 (64.8)	2.220 (56.4)	2.770 (70.4)	2.507 (63.7)	1.250 (31.8)	1.625 (41.3)
047	36	2.250-16 UN	1.941 (49.3)	1.916 (48.7)	2.470 (62.7)	1.551 (39.4)	2.832 (71.9)	.500 (12.7)	.750 (19.1)
026	36	2.250-16 UN	1.941 (49.3)	2.000 (50.8)	2.470 (62.7)	1.770 (45.0)	2.832 (71.9)	.625 (15.9)	.937 (23.8)
063	36	2.250-16 UN	1.941 (49.3)	2.230 (56.6)	2.470 (62.7)	2.113 (53.7)	2.832 (71.9)	.875 (22.2)	1.250 (31.8)
027	36	2.250-16 UN	1.941 (49.3)	2.024 (51.4)	2.470 (62.7)	2.363 (60.0)	2.832 (71.9)	1.000 (25.4)	1.375 (34.9)
064	36	2.250-16 UN	1.941 (49.3)	2.550 (64.8)	2.470 (62.7)	2.770 (70.4)	2.832 (71.9)	1.250 (31.8)	1.625 (41.3)
028	36	2.250-16 UN	1.941 (49.3)	2.600 (66.0)	2.470 (62.7)	3.020 (76.7)	2.477 (62.9)	1.437 (36.5)	1.840 (46.7)

Dimensions are in inches (mm).

Shorting Cap Backshell

TM Series • MIL-DTL-5015 Crimp Type Connectors



Optional Body Strap with Bolt Attachment

TMSC - 14 - 3 N 1

- 1
- 2
- 3
- 4
- 5
- BASIC PART NUMBER**
TMSC Shorting cap backshell
- SHELL SIZE**
See Backshell Dimensions table below
- BACKSHELL LENGTH**
Length in whole inches (1 inch = 25.4 mm)
- MATERIAL & FINISH**
N Aluminum, electroless nickel
W Aluminum, olive drab cadmium
G Aluminum, electroless nickel (space-grade)
- ATTACHMENT STYLE**
1 No strap attachment
2 Body strap with bolt attachment

TMSC Compatibility

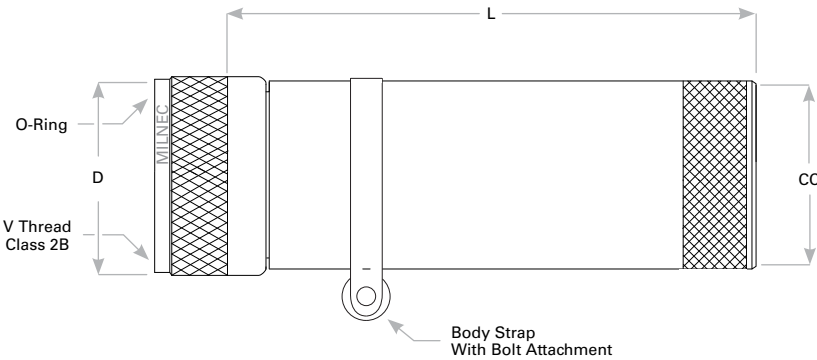
Compatible Brands	Connectors
MIL-DTL-5015 Crimp	MS3450, MS3451, MS3454, MS3456, MS3459
Aero Electric	AE550, AE551, AE554, AE556, AE559
Amphenol / Matrix	9440, 9441, 9444, 9446, 9816
J-Tech / Conesys	DC60, DC61, DC62, DC63
ITT Cannon	CV3450, CV3451, CV3454, CV3456, CV3459

Backshell Dimensions

Shell Size	D	V Thread Class 2B	CC Internal Dia	L
10	.770 (19.6)	.625-24 UNEF	.355 (9.0)	
12	.860 (21.8)	.750-20 UNEF	.491 (12.5)	
14	1.020 (25.9)	.875-20 UNEF	.565 (14.4)	
16	1.210 (30.7)	1.000-20 UNEF	.690 (17.5)	
18	1.230 (31.2)	1.062-18 UNEF	.769 (19.5)	
20	1.360 (34.5)	1.188-18 UNEF	.894 (22.7)	
22	1.480 (37.6)	1.313-18 UNEF	1.019 (25.9)	
24	1.730 (43.9)	1.438-18 UNEF	1.134 (28.8)	
28	1.970 (50.0)	1.750-18 UNS	1.369 (34.8)	
32	2.220 (56.4)	2.000-18 UNS	1.615 (41.0)	
36	2.470 (62.7)	2.250-16 UN	1.830 (46.5)	

Dimensions are in inches (mm).

Ordered in whole inch increments
Min = 1 inch (25.4 mm)
Max = 12 inches (304.8 mm)



Rev. 1318.1

CUSTOM TAILORED CONNECTORS



- Complete Mil-Spec Compatibility
- Wide Variety of Materials & Finishes
- More Backshells
- Specialized Contacts
- Additional Inserts
- More Shell Options

Military Strength—COTS Flexibility

Milnec builds connectors that meet and exceed established military specifications, while also providing additional options and features unavailable under the mil-spec. These commercial off the shelf (COTS) upgrades provide the strength and reliability of military specifications with the flexibility demanded by modern designs.



Straight Shrink Boot

TM Series • MIL-DTL-5015 Crimp Type Connectors

TMK2 - 4 - 100

- 1 **BASIC PART NUMBER**
TMK2 Straight shrink boot
- 2 **BOOT SIZE**
See Boot Dimensions table below
- 3 **STANDARD 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.

Environmental protection, low-profile design

A shrink boot provides complete IP67 environmental protection and strain relief. Must be used with a boot adapter.

Boot Size Recommendations

Boot Size	Cable Range		Shell Size											
	Min	Max	10	12	14	16	18	20	22	24	28	32	36	
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)										✓	✓	

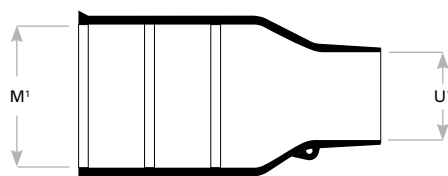
Dimensions are in inches (mm). ✓ Recommended boot size for (TMAB) Boot Adapter, p. K-49.

* Recommended boot size for (TMD2, TMD3, TMD4) EMI/RFI Banding Boot Adapter, p. K-50.

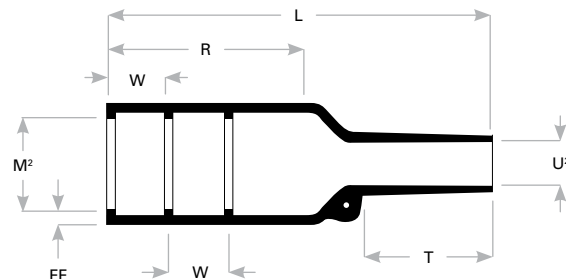
Boot Dimensions

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).



Before Heat Activation



After Heat Activation

Rev. 1318.1

TMK4 - 4 - 100

1 2 3

1 BASIC PART NUMBER

TMK4 90° shrink boot

2 BOOT SIZE

See Boot Dimensions table below

3 STANDARD 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 by NES 715

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

**Angled boot for simple cable management**

90° shrink boot provides complete IP67 environmental protection and strain relief in a low-profile backshell design. A boot adapter must be used for proper installation.

Boot Size Recommendations

Boot Size	Cable Range		Shell Size										
	Min	Max	10	12	14	16	18	20	22	24	28	32	36
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)										✓	✓

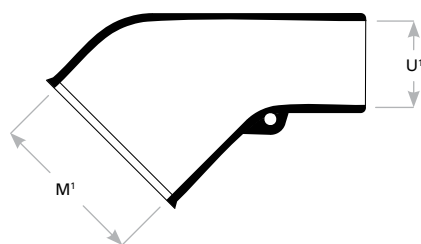
Dimensions are in inches (mm). ✓ Recommended boot size for (TMAB) Boot Adapter, p. K-49.

* Recommended boot size for (TMD2, TMD3, TMD4) EMI/RFI Banding Boot Adapter, p. K-50.

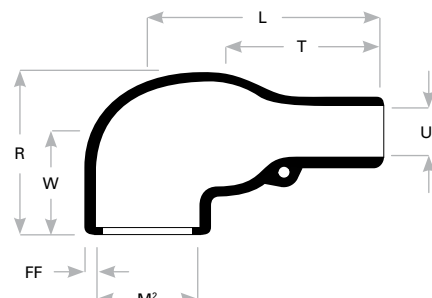
Boot Dimensions

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. 1318.1

Boot Adapter

TM Series • MIL-DTL-5015 Crimp Type Connectors



TMAB - 16 N - K2

- 1 **BASIC PART NUMBER**
TMAB Boot adapter
- 2 **SHELL SIZE**
See Adapter Dimensions table below
- 3 **MATERIAL & FINISH**
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. K-47
K4 Includes recommended 90° shrink boot in standard material 100, p. K-48

TMAB Compatibility

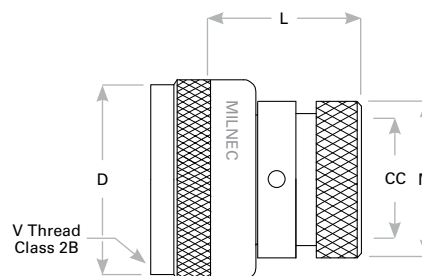
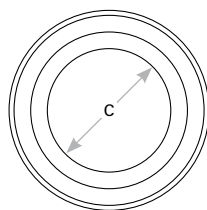
Compatible Brands	Connectors
MIL-DTL-5015 Crimp	MS3450, MS3451, MS3454, MS3456, MS3459
Aero Electric	AE550, AE551, AE554, AE556, AE559
Amphenol / Matrix	9440, 9441, 9444, 9446, 9816
J-Tech / Conesys	DC60, DC61, DC62, DC63
ITT Cannon	CV3450, CV3451, CV3454, CV3456, CV3459

Note: See part builder (p. K-11) for additional kit options.

Adapter Dimensions

Shell Size	CC Cable Clearance	M	D	L	V Thread Class 2B
10	.355 (9.0)	.605 (15.4)	.770 (19.6)	.832 (21.1)	.625-24 UNEF
12	.491 (12.5)	.774 (19.7)	.860 (21.8)	.832 (21.1)	.750-20 UNEF
14	.565 (14.4)	.838 (21.3)	1.020 (25.9)	.832 (21.1)	.875-20 UNEF
16	.690 (17.5)	.963 (24.5)	1.210 (30.7)	.832 (21.1)	1.000-20 UNEF
18	.769 (19.5)	1.042 (26.5)	1.230 (31.2)	.832 (21.1)	1.062-18 UNEF
20	.894 (22.7)	1.217 (30.9)	1.360 (34.5)	.832 (21.1)	1.188-18 UNEF
22	1.019 (25.9)	1.355 (34.4)	1.480 (37.6)	.832 (21.1)	1.313-18 UNEF
24	1.134 (28.8)	1.443 (36.7)	1.730 (43.9)	.832 (21.1)	1.438-18 UNEF
28	1.369 (34.8)	1.709 (43.4)	1.970 (50.0)	.994 (25.3)	1.750-18 UNS
32	1.615 (41.0)	1.919 (48.7)	2.220 (56.4)	.994 (25.3)	2.000-18 UNS
36	1.830 (46.5)	2.169 (55.1)	2.470 (62.7)	.994 (25.3)	2.250-16 UN

Dimensions are in inches (mm).



Rev. 1318.1

EMI/RFI Banding Boot Adapter

TM Series • MIL-DTL-5015 Crimp Type Connectors

TMD2 - 16 N - K2



- 1 **BASIC PART NUMBER**
 - TMD2** Straight EMI/RFI banding boot adapter
 - TMD3** 45° EMI/RFI banding boot adapter
 - TMD4** 90° EMI/RFI banding boot adapter

(Includes shield termination band TB250, p. K-58)
- 2 **SHELL SIZE**

See Backshell Dimensions table below
- 3 **MATERIAL & FINISH**
 - 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. K-47

Note: Designed for use with straight shrink boot (TMK2, p. K-47).
See part builder (p. K-11) for additional kit options.

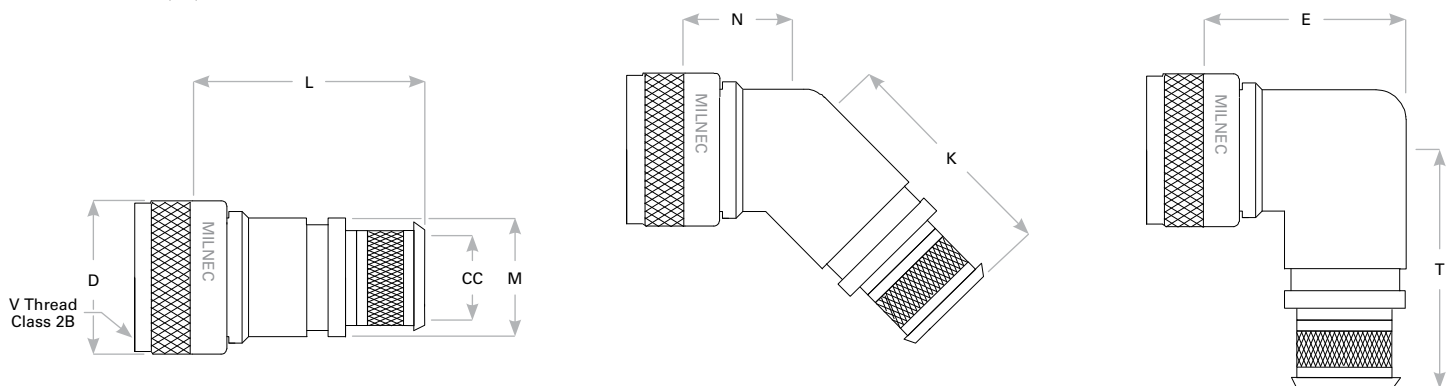
TMD2 Compatibility

Compatible Brands	Connectors
MIL-DTL-5015 Crimp	MS3450, MS3451, MS3454, MS3456, MS3459
Aero Electric	AE550, AE551, AE554, AE556, AE559
Amphenol / Matrix	9440, 9441, 9444, 9446, 9816
J-Tech / Conesys	DC60, DC61, DC62, DC63
ITT Cannon	CV3450, CV3451, CV3454, CV3456, CV3459

Backshell Dimensions

Shell Size	CC Cable Clearance	M	D	L	N	K	E	T	V Thread Class 2B
10	.312 (7.9)	.500 (12.7)	1.010 (25.7)	1.350 (34.3)	.890 (22.6)	1.180 (30.0)	1.281 (32.5)	1.480 (37.6)	.625-24 UNEF
12	.438 (11.1)	.624 (15.8)	1.130 (28.7)	1.350 (34.3)	.920 (23.4)	1.200 (30.5)	1.406 (35.7)	1.542 (39.2)	.750-20 UNEF
14	.562 (14.3)	.750 (19.1)	1.260 (32.0)	1.350 (34.3)	.940 (23.9)	1.220 (31.0)	1.531 (38.9)	1.605 (40.8)	.875-20 UNEF
16	.625 (15.9)	.812 (20.6)	1.380 (35.1)	1.350 (34.3)	.960 (24.4)	1.250 (31.8)	1.656 (42.1)	1.667 (42.3)	1.000-20 UNEF
18	.750 (19.1)	.937 (23.8)	1.510 (38.4)	1.350 (34.3)	.980 (24.9)	1.260 (32.0)	1.718 (43.6)	1.730 (43.9)	1.062-18 UNEF
20	.812 (20.6)	1.000 (25.4)	1.630 (41.4)	1.350 (34.3)	1.000 (25.4)	1.290 (32.8)	1.844 (46.8)	1.792 (45.5)	1.188-18 UNEF
22	.938 (23.8)	1.124 (28.5)	1.760 (44.7)	1.350 (34.3)	1.030 (26.2)	1.310 (33.3)	1.938 (49.2)	1.850 (47.0)	1.313-18 UNEF
24	1.000 (25.4)	1.187 (30.1)	1.880 (47.8)	1.350 (34.3)	1.050 (26.7)	1.340 (34.0)	2.093 (53.2)	1.917 (48.7)	1.438-18 UNEF
28	1.125 (28.6)	1.312 (33.3)	2.130 (54.1)	1.350 (34.3)	1.100 (27.9)	1.380 (35.1)	2.531 (64.3)	2.042 (51.9)	1.750-18 UNS
32	1.250 (31.8)	1.437 (36.5)	2.220 (56.4)	1.375 (34.8)	1.092 (27.7)	1.620 (41.1)	1.593 (40.5)	1.651 (41.9)	2.000-18 UNS
36	1.375 (34.9)	1.562 (39.7)	2.470 (62.7)	1.500 (38.1)	1.136 (28.9)	1.750 (44.5)	1.718 (43.6)	1.781 (45.2)	2.250-16 UN

Dimensions are in inches (mm).



Rev. 1318.1

Protective Covers

TM Series • MIL-DTL-5015 Crimp Type Connectors



TMCP - 16 B

- 1 **BASIC PART NUMBER**
TMCP Plug cover w/ sash chain
TMCR Receptacle cover w/ sash chain
- 2 **SHELL SIZE**
 See Protective Cover Dimensions table below
- 3 **MATERIAL & FINISH**
B Aluminum, anodize hardcoat

Note: See part builder (p. K-11) for additional kit options.

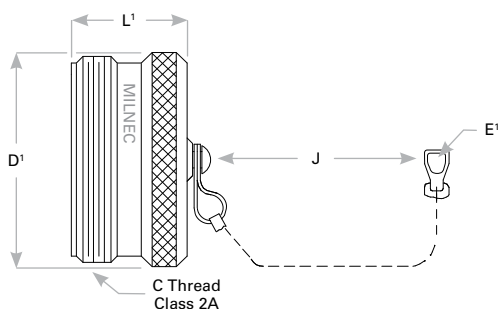
TMCP & TMCR Compatibility

Compatible Brands	Plugs	Receptacles
MIL-DTL-5015 Crimp	MS3456, MS3459	MS3450, MS3451, MS3452, MS3454
Aero Electric	AE556, AE559	AE550, AE551, AE552, AE554
Amphenol / Matrix	9446, 9816	9440, 9441, 9442, 9444
J-Tech / Conesys	DC62, DC63	DC60, DC61
ITT Cannon	CV3456, CV3459	CV3450, CV3451, CV3452, CV3454

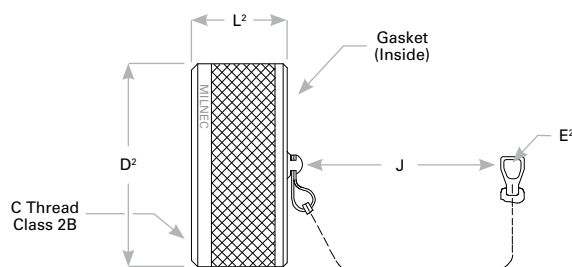
Protective Cover Dimensions

Shell Size	C Thread Class 2A	L ¹	D ¹	E ¹	J Chain Length	C Thread Class 2B	L ²	D ²	E ²
10	.625-24 UNEF	.656 (16.7)	.687 (17.4)	.151 (3.8)	4.00 (101.6)	.625-24 UNEF	.469 (11.9)	.815 (20.7)	.135 (3.4)
12	.750-20 UNEF	.844 (21.4)	.812 (20.6)	.151 (3.8)	4.50 (114.3)	.750-20 UNEF	.469 (11.9)	1.000 (25.4)	.135 (3.4)
14	.875-20 UNEF	.844 (21.4)	.937 (23.8)	.151 (3.8)	4.50 (114.3)	.875-20 UNEF	.469 (11.9)	1.125 (28.6)	.135 (3.4)
16	1.000-20 UNEF	.844 (21.4)	1.062 (27.0)	.151 (3.8)	4.50 (114.3)	1.000-20 UNEF	.469 (11.9)	1.188 (30.2)	.135 (3.4)
18	1.125-18 UNEF	.844 (21.4)	1.187 (30.1)	.151 (3.8)	5.00 (127.0)	1.125-18 UNEF	.469 (11.9)	1.344 (34.1)	.135 (3.4)
20	1.250-18 UNEF	.844 (21.4)	1.312 (33.3)	.182 (4.6)	5.00 (127.0)	1.250-18 UNEF	.469 (11.9)	1.469 (37.3)	.135 (3.4)
22	1.375-18 UNEF	.844 (21.4)	1.437 (36.5)	.182 (4.6)	5.50 (139.7)	1.375-18 UNEF	.469 (11.9)	1.594 (40.5)	.135 (3.4)
24	1.500-18 UNEF	.844 (21.4)	1.562 (39.7)	.182 (4.6)	7.75 (196.9)	1.500-18 UNEF	.469 (11.9)	1.719 (43.7)	.166 (4.2)
28	1.750-18 UNS	.844 (21.4)	1.812 (46.0)	.182 (4.6)	7.75 (196.9)	1.750-18 UNS	.531 (13.5)	1.969 (50.0)	.166 (4.2)
32	2.000-18 UNS	.844 (21.4)	2.062 (52.4)	.213 (5.4)	7.75 (196.9)	2.000-18 UNS	.531 (13.5)	2.219 (56.4)	.182 (4.6)
36	2.250-16 UN	.844 (21.4)	2.312 (58.7)	.213 (5.4)	7.75 (196.9)	2.250-16 UN	.531 (13.5)	2.469 (62.7)	.182 (4.6)

Dimensions are in inches (mm).



Plug Cover

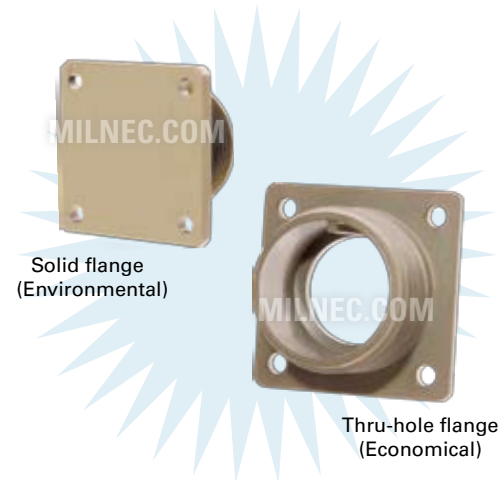


Receptacle Cover

Rev. 1318.1

TMCD - 16 W - 02

- 1 **BASIC PART NUMBER**
TMCD Stowage receptacle (thru-hole flange)
TMCC Stowage receptacle (solid flange)
- 2 **SHELL SIZE**
 See Stowage Receptacle Dimensions table below
- 3 **MATERIAL & FINISH**
W Aluminum, olive drab cadmium
N Aluminum, electroless nickel
- 4 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
02 Protective cover + mounting gasket
03 02 kit + mounting bracket + sealing screws



Note: See part builder (p. K-11) for additional kit options.

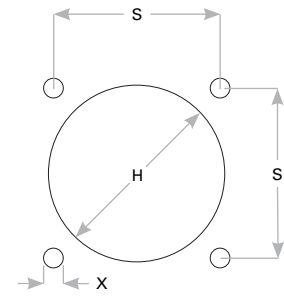
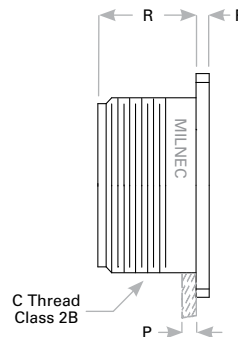
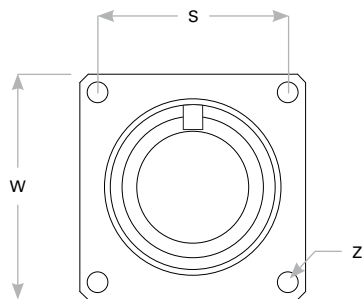
TMCD Compatibility

Compatible Brands	Plugs
MIL-DTL-5015 Crimp	MS3456, MS3459
Aero Electric	AE556, AE559
Amphenol / Matrix	9446, 9816
J-Tech / Conesys	DC62, DC63
ITT Cannon	CV3456, CV3459

Stowage Receptacle Dimensions

Shell Size	W	S	Z	C Thread Class 2B	R	F	P Max Rear Panel†	S	X	H
10S	1.031 (26.2)	.719 (18.3)	.130 (3.3)	.625-24 UNEF	.593 (15.1)	.156 (4.0)	.125 (3.2)	.719 (18.3)	.120 (3.1)	.688 (17.5)
12S	1.125 (28.6)	.812 (20.6)	.130 (3.3)	.750-20 UNEF	.593 (15.1)	.156 (4.0)	.125 (3.2)	.812 (20.6)	.120 (3.1)	.812 (20.6)
14S	1.219 (31.0)	.906 (23.0)	.130 (3.3)	.875-20 UNEF	.593 (15.1)	.156 (4.0)	.125 (3.2)	.906 (23.0)	.120 (3.1)	.938 (23.8)
16S	1.312 (33.3)	.969 (24.6)	.130 (3.3)	1.000-20 UNEF	.593 (15.1)	.156 (4.0)	.125 (3.2)	.969 (24.6)	.120 (3.1)	1.062 (27.0)
18	1.406 (35.7)	1.062 (27.0)	.130 (3.3)	1.125-18 UNEF	.781 (19.8)	.203 (5.2)	.125 (3.2)	1.062 (27.0)	.120 (3.1)	1.188 (30.2)
20	1.531 (38.9)	1.156 (29.4)	.130 (3.3)	1.250-18 UNEF	.781 (19.8)	.203 (5.2)	.125 (3.2)	1.156 (29.4)	.120 (3.1)	1.312 (33.3)
22	1.656 (42.1)	1.250 (31.8)	.130 (3.3)	1.375-18 UNEF	.781 (19.8)	.203 (5.2)	.125 (3.2)	1.250 (31.8)	.120 (3.1)	1.438 (36.5)
24	1.781 (45.2)	1.375 (34.9)	.157 (4.0)	1.500-18 UNEF	.843 (21.4)	.203 (5.2)	.125 (3.2)	1.375 (34.9)	.147 (3.7)	1.562 (39.7)
28	2.031 (51.6)	1.562 (39.7)	.157 (4.0)	1.750-18 UNS	.843 (21.4)	.203 (5.2)	.125 (3.2)	1.562 (39.7)	.147 (3.7)	1.812 (46.0)
32	2.281 (57.9)	1.750 (44.5)	.183 (4.6)	2.000-18 UNS	.906 (23.0)	.359 (9.1)	.125 (3.2)	1.750 (44.5)	.173 (4.4)	2.062 (52.4)
36	2.531 (64.3)	1.938 (49.2)	.183 (4.6)	2.250-16 UN	.906 (23.0)	.359 (9.1)	.125 (3.2)	1.938 (49.2)	.173 (4.4)	2.312 (58.7)

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



Panel Cutout

Mounting Gasket

TM Series • MIL-DTL-5015 Crimp Type Connectors



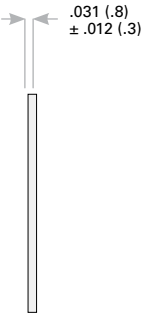
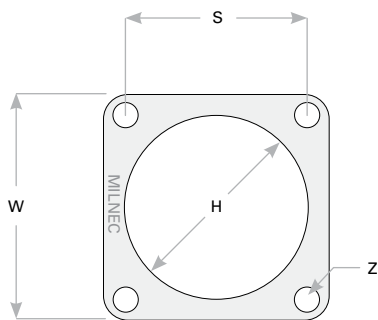
TMGE Compatibility

Compatible Brands	Receptacles
MIL-DTL-5015 Crimp	MS3450, MS3452
Aero Electric	AE550, AE552
Amphenol / Matrix	9440, 9442
J-Tech / Conesys	DC60, DC61
ITT Cannon	CV3450, CV3452

Gasket Dimensions

Shell Size	W	S	Z	H
10	1.000 (25.4)	.719 (18.3)	.172 (4.4)	.625 (15.9)
12	1.094 (27.8)	.813 (20.7)	.172 (4.4)	.750 (19.1)
14	1.188 (30.2)	.906 (23.0)	.172 (4.4)	.875 (22.2)
16	1.281 (32.5)	.969 (24.6)	.172 (4.4)	1.000 (25.4)
18	1.375 (34.9)	1.063 (27.0)	.203 (5.2)	1.125 (28.6)
20	1.500 (38.1)	1.156 (29.4)	.203 (5.2)	1.250 (31.8)
22	1.625 (41.3)	1.250 (31.8)	.203 (5.2)	1.375 (34.9)
24	1.750 (44.5)	1.375 (34.9)	.203 (5.2)	1.500 (38.1)
28	2.000 (50.8)	1.563 (39.7)	.203 (5.2)	1.750 (44.5)
32	2.250 (57.2)	1.750 (44.5)	.219 (5.6)	2.000 (50.8)
36	2.500 (63.5)	1.938 (49.2)	.219 (5.6)	2.188 (55.6)
40	2.750 (70.0)	2.188 (55.6)	.219 (5.6)	2.438 (62.0)

Dimensions are in inches (mm).



TMGE - 16

1 BASIC PART NUMBER

- TMGE** Neoprene environmental (weather resistant)
Temp. range -40°F to +230°F (-40°C to +110°C)
- TMGS** Conductive EMI-RFI neoprene, Ni-Cu mesh
Temp. range -40°F to +230°F (-40°C to +110°C)
- TMGL** Fluorosilicone (jet fuel & oil resistant)
Temp. range -70°F to +392°F (-56°C to +200°C)
Per MIL-DTL-25988, Class 1, Grade 6
- TMGD** Conductive EMI-RFI fluorosilicone, Al-Ag filled
Temp. range -70°F to +392°F (-56°C to +200°C)
Shielding effectiveness at 90 dB @ 10 GHz
Per MIL-DTL-83528, Type D

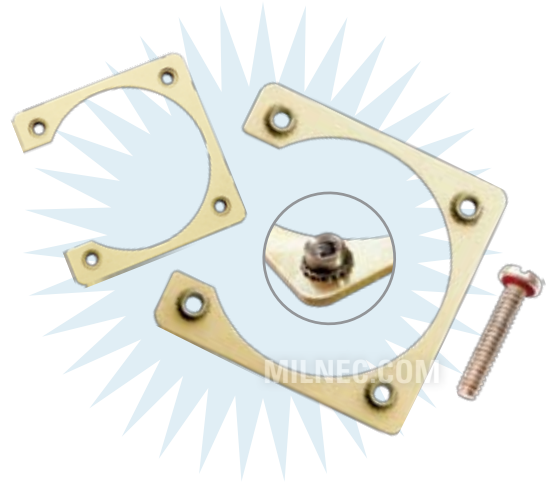
2 SHELL SIZE

See Gasket Dimensions table below

Note: See part builder (p. K-11) for additional kit options.

TMMB - 16 - A

- 1 **BASIC PART NUMBER**
TMMB Mounting bracket, aluminium alloy with SST locking nuts
- 2 **SHELL SIZE**
See Bracket Dimensions table below
- 3 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
A Self-sealing SST fillister head screws (4x)



Note: See part builder (p. K-11) for additional kit options.

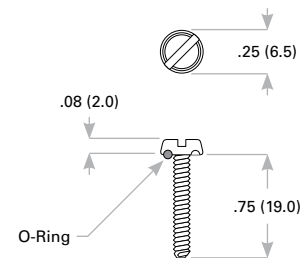
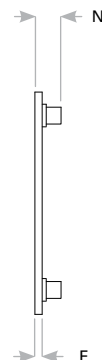
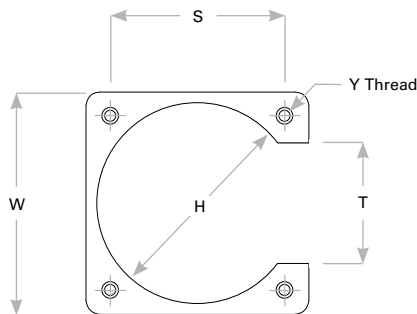
TMMB Compatibility

Compatible Brands	Receptacles
MIL-DTL-5015 Crimp	MS3450, MS3452
Aero Electric	AE550, AE552
Amphenol / Matrix	9440, 9442
J-Tech / Conesys	DC60, DC61
ITT Cannon	CV3450, CV3452

Bracket Dimensions

Shell Size	W	S	H	T	N	F	Screw Size	Y Thread
10	1.019 (25.9)	.719 (18.3)	.720 (18.3)	.433 (11.0)	.136 (3.5)	.040 (1.0)	#4	4-40 UNJC-3B
12	1.104 (28.0)	.812 (20.6)	.855 (21.7)	.530 (13.5)	.136 (3.5)	.040 (1.0)	#4	4-40 UNJC-3B
14	1.198 (30.4)	.906 (23.0)	.984 (25.0)	.624 (15.8)	.136 (3.5)	.040 (1.0)	#4	4-40 UNJC-3B
16	1.280 (32.5)	.969 (24.6)	1.094 (27.8)	.687 (17.4)	.136 (3.5)	.040 (1.0)	#4	4-40 UNJC-3B
18	1.406 (35.7)	1.062 (27.0)	1.220 (31.0)	.780 (19.8)	.136 (3.5)	.040 (1.0)	#4	4-40 UNJC-3B
20	1.535 (39.0)	1.156 (29.4)	1.345 (34.2)	.874 (22.2)	.136 (3.5)	.040 (1.0)	#4	4-40 UNJC-3B
22	1.665 (42.3)	1.250 (31.8)	1.478 (37.5)	.968 (24.6)	.136 (3.5)	.040 (1.0)	#4	4-40 UNJC-3B
24	1.738 (44.1)	1.375 (34.9)	1.483 (37.7)	.907 (23.0)	.153 (3.9)	.040 (1.0)	#6	6-32 UNJC-3B
28	2.000 (50.8)	1.562 (39.7)	1.820 (46.2)	1.125 (28.6)	.153 (3.9)	.040 (1.0)	#6	6-32 UNJC-3B
32	2.312 (58.7)	1.750 (44.5)	2.062 (52.4)	1.188 (30.2)	.153 (3.9)	.040 (1.0)	#6	6-32 UNJC-3B
36	2.500 (63.5)	1.938 (49.2)	2.312 (58.7)	1.375 (34.9)	.153 (3.9)	.040 (1.0)	#6	6-32 UNJC-3B
40	2.925 (74.3)	2.188 (55.6)	2.675 (68.0)	1.500 (38.1)	.210 (5.3)	.040 (1.0)	#8	8-32 UNJC-3B

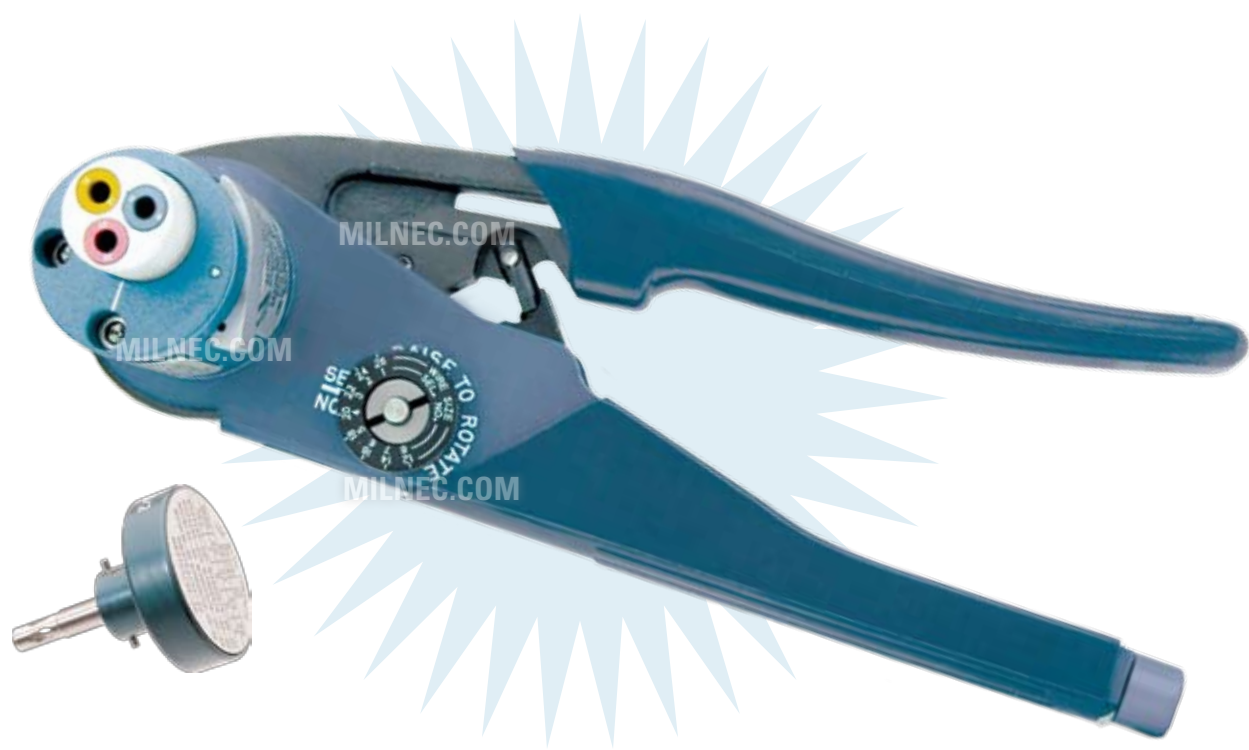
Dimensions are in inches (mm).



Rev. 1318.1

Hand Crimpers & Positioners

TM Series • MIL-DTL-5015 Crimp Type 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 8-impession 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. We have paired our most popular models with their required positioner(s) to ensure complete compatibility.

Hand Crimper & Positioner Kits

Part Number	Kit Includes the Following Items	Contacts Sizes	Milnec Series Compatibility	Mil-Spec Series Compatibility
TK101-KIT	TK101 crimp tool with TP104 turret positioner	#20, #16, #12	DL Series, DS, Series, TX Series	MIL-DTL-38999 Series I, II, III
TK101B-KIT	TK101 crimp tool with TP102 turret positioner	#20, #16, #12	BM Series, EV Series, TM Series, HR Series	MIL-DTL-26482 Series I, II MIL-DTL-83723 Series III MIL-DTL-5015 Crimp*
TK201-KIT	TK201 crimp tool with the following positioners: TP209 (for pins), TP207 (for sockets)	#22, #22M, #22D	DL Series, TX Series	MIL-DTL-38999 Series I MIL-DTL-38999 Series III
TK201B-KIT	TK201 crimp tool with the following positioners: TP209 (for pins), TP206 (for sockets)	#22, #22M, #22D	DS Series	MIL-DTL-38999 Series II

* Contacts size #8 and larger require pneumatic crimper. When this is not an option, wires may be soldered directly into contact wire well. For mission critical applications, crimping is preferred termination method.

Rev. 1318.1



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

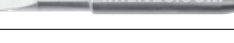
- Temperature range 392° to 896°F (200° to 480°C)
- Adjustable temperature control dial with lock/set screw
- Idle temperature stability of $\pm 1.8^{\circ}\text{F}$ (1.0°C)
- Ceramic heating element and sensor ensure rapid heat-up temperature (30 seconds) and fast thermal recovery
- Celsius or Fahrenheit 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

TM Series • MIL-DTL-5015 Crimp Type 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. 1318.1

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.

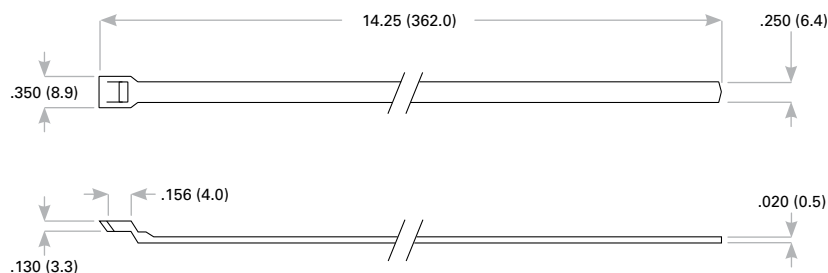
Features & Benefits

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



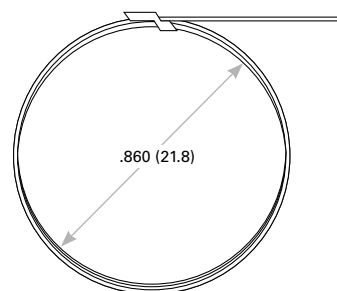
Shield Termination Band

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



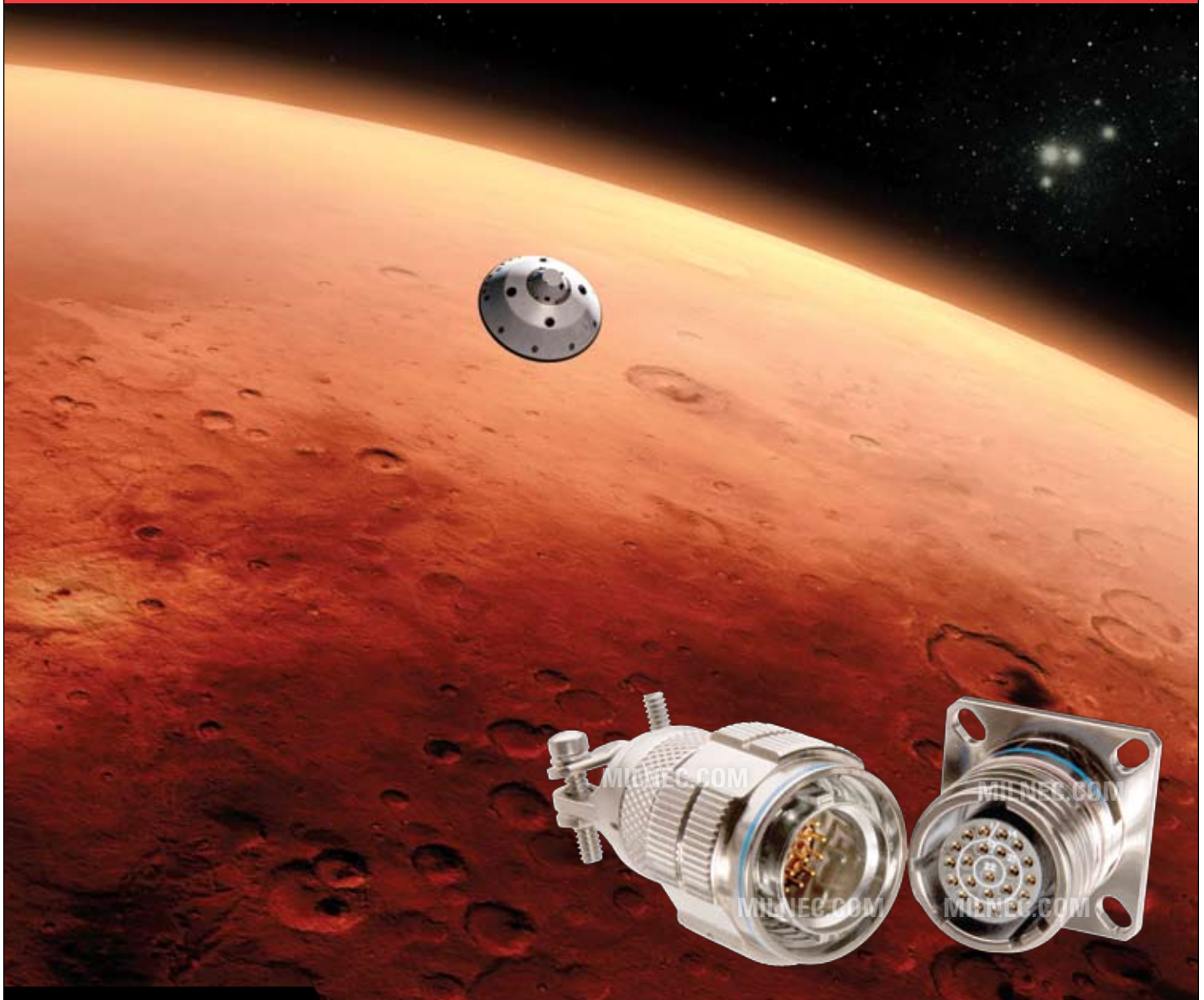
Dimensions are in inches (mm).

Rev. 1318.1



Pre-coiled Band

SPACE-GRADE CONNECTORS FOR THE FINAL FRONTIER



Don't Lose Touch With Mission Control

Rely on Milnec space-grade connectors for all your high-altitude and space applications. Our space-grade connectors meet all NASA specifications for outgassing and feature triple-start and impact resistant stub threads with self-locking ratchet coupling to ensure secure mating, even in high-vibration environments.



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