AMPHENOL®/PYLE-NATIONAL®



T-LINE® SERIES CONNECTORS

Push-Pull Mating Connectors for Military and Industrial Applications

PDS - 307



Trim Your Electrical System Requirements with the Amphenol/Pyle-National space-saving T-Line Series subminiature cylindrical connector.

A push-pull mating connector, the T-Line incorporates a retention spring in the receptacle and a full-mating indicator band on the plug. Inserts are qualified to MIL-C-38999 Series III and accept standard M39029-56/-58 series contacts in either six #22D or three #20 contact arrangements. Trim, rugged shell will accomodate standard M85049/38 series backshells and are easily adapted for lanyard release applications. The T-Line Series of connectors are designed to reduce the size and weight of your electrical systems without sacrificing performance.

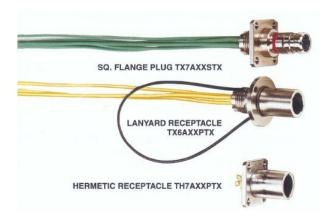
FEATURES & BENEFITS:

- Rugged construction
- Lanyard release applications
- Push-pull mating
- Rugged Environmental design
- Accepts T9-R-5309-10() crimp shield adapter
 - IN-LINE RECEPTACLE TX2AXXPTX

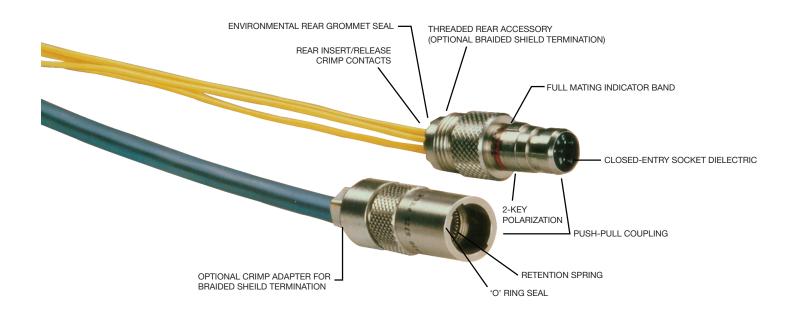
 INLINE PLUG TX2AXXSTX

 SQ. FLANGE RECEPTACLE TX7AXXPTX

- Satinless steel or aluminum shells
- Various plating options
- MIL-C-38999 Series Inserts
- M39029-56/-58 Series Contacts
- Space-Saving size



Features, Insert Arrangements/Alternate Keying Positions



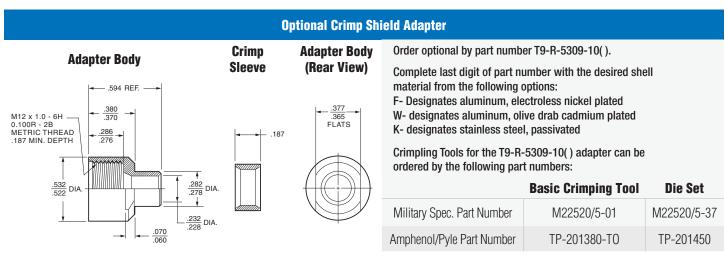
	Insert Arrangements							
	(0,0°)	2 6 4 3 0	A B	$\bigoplus_{B\bigoplus}^{A} \bigoplus_{C}$				
Insert Arrangement	A23	A35	A94	A98				
Service Rating*	N	М	М	1				
Number of Contacts	9	6	2	3				
Contact Size	23	22D	20	20				
e how to order page for								



Contact Information, Optional Crimp Sheild Adapter

Contact & Sealing Plug Information							
		Sockets					
Contact Size	Military Spec. Part Number	Superceded MS Part Number	Amphenol/Pyle Part Number	Military Spec Part Number	Superceded MS Part Number	Amphenol/Pyle Part Number	
22D	M39029/58-360	27493-22D	T3-4022-36LD	M39029/56-348	27490-22D	T3-4122-36LD	
20	M39029/58-363	27493-20	T3-4020-36LD	M39029/56-351	27490-20	T3-4120-36LD	

	Crimp W	ell Data		Finished wire outside dimensions			Sealing Plugs			
Contact Size	Well	Minimum	Wire Size (AWG)	Minimum		Maximum		Superceded	Amphenol/Pyle	0.1
0.120	Diameter Well Depth	(Inches	mm	Inches	mm	MS Number	Number	Color	
22D	.0345 ± .001	.141	28, 26, 24, 22	0.030	0.760	0.054	1.370	27488-22	T3-4022-59L	Black
20	.047 ± .001	.209	24, 22, 20	0.040	1.020	0.083	2.110	27488-20	T3-4020-59L	Red



The above crimping tools are available from an approved tool manufacturer

How to Order, Connector Service Ratings

T-Line Series Subminiature Cylindrical Connectors can be ordered by coded part numbers as shown below. Typical part number TS6A35PTN-E is given as an example.

1.	2.	3.	4.	5.	6.	7.	8.	9.
Connector Series Prefix	Shell Material	Shell Type	Shell Size	Insert Arrangement	Gender/ Style	Rear Accessory Style	Alternate Keying Posi- tions	Lanyard Length
T	S	6	A	35	P	T	N-	E

1. Connector Series Prefix **T** Designates Amphenol®/Pyle-National® T-Line® Series Connectors 2. Shell Material Aluminum with Cadmium olive drab over nickel F Aluminium with electroless nickel finish S Stainless Steel N Stainless Steel, nickel plated Stainless Steel Hermetic 3. Shell Type In-line Cable Lanyard 7 Square flange Jam nut mold 4. Shell Size **A** 09 5. Insert Arrangement

Gender/Style						
ironmental						
Pin contacts only in a recepticle shell body						
Socket contacts only in a plug shell body						
metic						
Pin, Solderwell termination						
Pin, Eyelet termination						
Pin, PC termination						

7. Rear Accessory Style Threaded (omit for Hermetic), for optional crimping application, use crimp shield adapter T9-R-5309-10()

8. Alternate Keying Positions A,B,C,D or N for normal

9. Lanyard Lenth (Demensions in inches)							
A	4.0	F	6.5				
В	4.5	G	7.0				
C	5.0	Н	7.5				
D	5.5	1	8.0				
E	6.0						

Service Rating*								
Service	Suggested Operating Voltage (Sea Level)		Test Voltage	Test Voltage	Test Voltage	Test Voltage		
Rating	AC (AMS)	DC	(Sea Level)	50,000 ft.	70,000 ft.	100,000 ft.		
	600	850	1800 V RMS	600 V RMS	400 V RMS	200 V RMS		
M	400	550	1300 V RMS	550 V RMS	350 V RMS	200 V RMS		

Please note that the establishment of electrical safety factors is left entirely in the designer's hands, since they are in the best position to know what peak voltages, switching surges, transients, etc. can be expected in a particular circuit.

9 #23 contacts
6 #22 contacts
2 #20 contacts
3 #20 contacts



Shell Styles, Dimensional Information

In-Line Receptacle In-Line Plug In-Line Plug In-Line Plug In-Line Plug In-Line Plug In-Line Plug

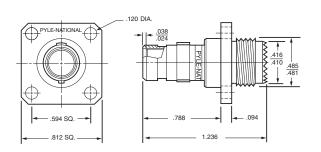
Typical part number*: TS2A35PTN

Square Flange Receptacle

Typical part number*: TS2A35STN



Square Flange Plug



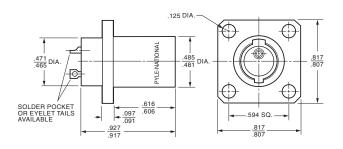
Typical part number*: TS7A98STA

Lanyard Receptacle

LANYARD LENGTHS (See Table) 1/32 DIA. STAINLESS WIRE ROPE WITH JACKET 1.225

Typical part number*: TS6A35PTB

Hermetic Receptacle



Typical part number*: TH7A35PN

^{*} See how to order page for full desription ordering procedure and options

Notes	

Notes



