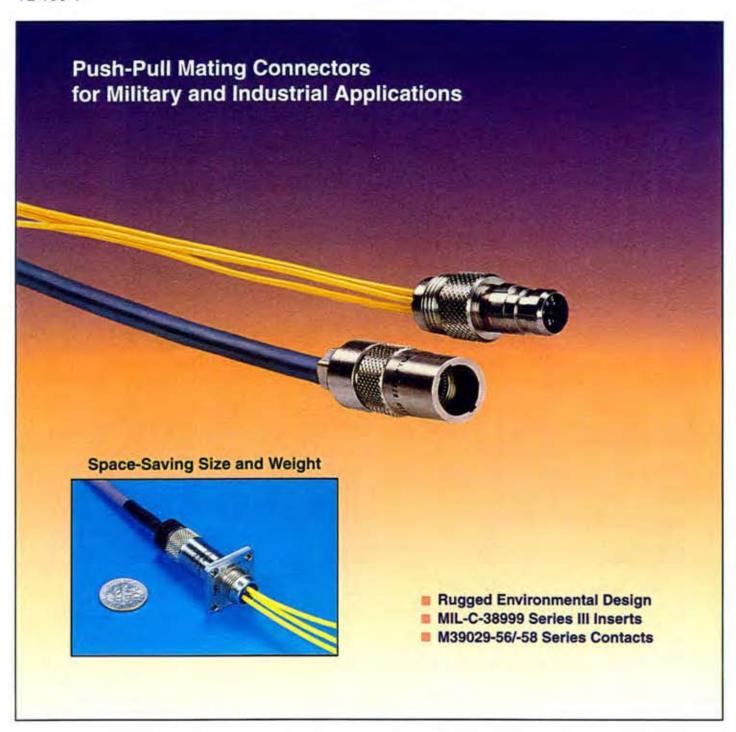
# Amphenol®/Pyle-National® T-Line® Series Connectors

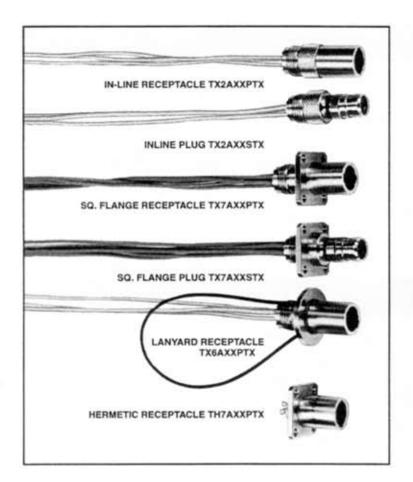
TL-100-1



Amphenol Aerospace.

## Amphenol®/Pyle-National® T-Line® Series Subminiature Connectors

for push-pull mating, space-saving applications



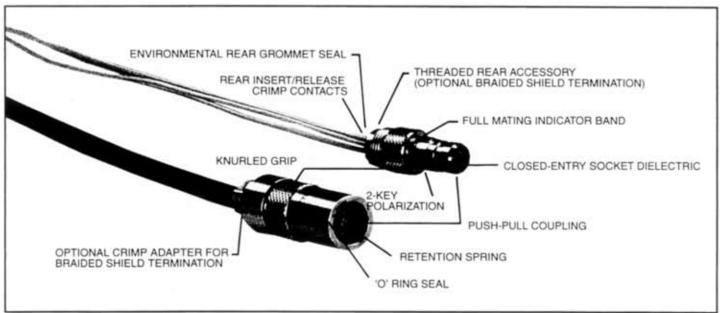
Trim your electrical system requirements with the Amphenol/Pyle-National space-saving T-Line Series subminiature cylindrical connector. A push-pull mating connector, the T-Line incorporates a retention spring in the receptacle and a full-mating indicator band on the plug. Inserts are qualified to MIL-C-38999 Series III and accept standard M39029-56/-58 series contacts in either six #22D or three #20 contact arrangements.

Trim, rugged shells will accommodate 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.

#### T-LINE FEATURES & BENEFITS

- Space-Saving size
- Rugged construction
- Lanyard release applications
- Push-pull mating
- Environmental design
- Accepts T9-R-5309-10( ) crimp shield adapter
- Stainless steel or aluminum shells
- Various plating options



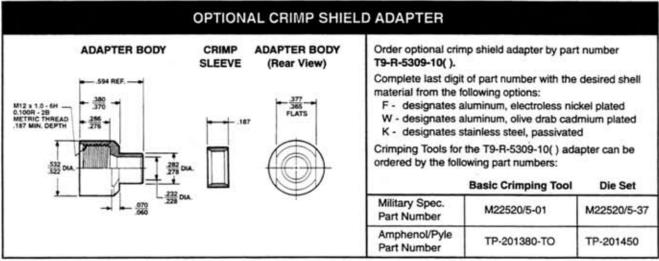
## **T-Line® Series**

## insert availability, contact information, optional crimp shield adapter

INSERT	ARRANGE	MENTS	ALTERNATE KEYING POSITIONS			
			RECEPTACLE (Front Face)	PLUG (Front Face)		
			MASTER	MASTER		
Insert Arrangement	A35	A98	POS CE	500 A08		
Service Rating*	м	1		A Paris		
Number of Contacts	6	3	100/100	Jan Salar		
Contact Size	22D	20	100			
* See how to ord	er page for service	rating descriptions.				

	CONTACT & SEALING PLUG INFORMATION										
PINS 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					

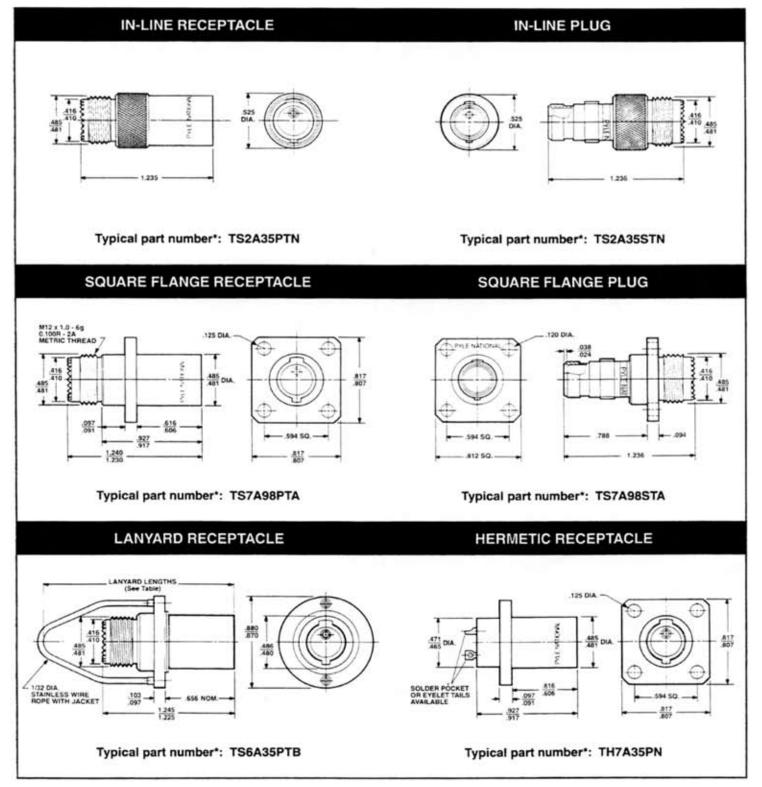
Crimp Well Data		100000000000000000000000000000000000000	Finished wire outside dimensions				SEALING PLUGS			
SIZE	Minimum Well Depth	Wire Size (AWG)	Minimum		Maximum		Superceded	Amphenol/		
			Inches	mm	Inches	mm	MS Number	Pyle Number	Color	
22D	.0345 ± .001	.141	28, 26, 24, 22	0.030	0.76	0.054	1.37	27488-22	T3-4022-59L	Black
20	.047 ± .001	.209	24, 22, 20	0.040	1.02	0.083	2.11	27488-20	T3-4020-59L	Red



The above crimping tools are available from an approved tool manufacturer.

## **T-Line® Series**

## shell styles, dimensional information



See how to order page for full description of ordering procedure and options.

### T-Line® Series

## how to order, connector service ratings

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

	т	S	6	A	35	P	Т	N	•	E
Connector Series Prefix —										1
Shell Material										1
Shell Type										1
Shell Size										1
										1
Insert Arrangement ————————————————————————————————————										1
										1
Rear Accessory Style —————							_			1
Alternate Keying Positions —										1
Lanyard Length —									_	_

#### Connector Series Prefix

T - designates Amphenol®/Pyle-National®
T-Line® Series Connectors

#### **Shell Material**

- W Aluminum with cadmium olive drab over
- F Aluminum with electroless nickel finish
- S Stainless Steel
- N Stainless Steel, nickel plated
- H Stainless Steel Hermetic

#### Shell Type

- 2 In-line Cable
- 6 Lanyard
- 7 Square flange
- 9 Jam nut mount

#### **Shell Size**

A - 09

#### Insert Arrangement

35 - 6 #22 contacts

98 - 3 #20 contacts

#### Gender/Style

#### Environmental

- P Pin contacts only in a receptacle shell body
- S Socket contacts only in a plug shell body

#### Hermetic

- P Pin, Solderwell termination
- X Pin, Eyelet termination
- D Pin, PC termination

#### Rear Accessory Style

T - Threaded

omit for Hermetic

(for optional crimping application, use crimp shield adapter T9-R-5309-10( )

#### **Alternate Keying Positions**

A, B, C, D or N for normal

#### Lanyard Length (Dimensions in inches)

A - 4.0

F- 6.5

B - 4.5

G - 7.0

C - 5.0

H - 7.5

D - 5.5

1- 8.0

E - 6.0

(omit without lanyard)

SERVICE RATING*									
Service Rating	Suggested Oper (Sea Le		Test Voltage (Sea Level)	Test Voltage 50,000 ft.	Test Voltage 70,000 ft.	Test Voltage			
	AC (AMS)	DC		50,000 11.	70,000 11.	100,000 ft.			
T	600	850	1800 V RMS	600 V RMS	400 V RMS	200 V RMS			
М	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 he is in the best position to know what peak voltages, switching surges, transients, etc. can be expected in a particular circuit.