Amphenol Aerospace

38999 RAM-LOCK

POSITIVE LOCKING PUSH-PULL INTERFACE

PDS - 356

Amphenol's Ram-Lock Push-Pull interface is now available in the 38999 family of products!

Featuring a positive locking interface, the Ram-Lock is perfect for applications where accidental unmating is a concern. The user must pull on the operating sleeve of the plug to unmate rather than pulling on the cable. Lanyards can be added for a variety of applications such as emergency disconnect or ejection. Utilizing ball bearings for locking and a traditional D38999 EMI band, performance is more comparable to a traditional Military specification circular connector. Throw in the fact 38999 Ram-Lock uses Mil-qualified insert assemblies and you have the perfect drop in push-pull replacement for your system.

FEATURES & BENEFITS:

- Push-Pull Quick Disconnect with positive lock
- Visual, tactile, and audible full-mate indication
- Full environmental sealing and EMI protection
- Up to 200°C in aluminum configuration, ask about high temperature connectors up to 300°C
- Prevents accidental unmating when cable is pulled, in contrast to canted coil spring push-pulls
- Lower mate/unmate forces compared to 804 series

APPLICATIONS:

- Solider-worn equipment
- Electric vehicle and equipment charging
- Battery terminal connections
- Ejection seat and ordnance release
- In-line power and signal connections

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HOW TO ORDER

Amphenol Aerospace

Complete steps 1-8 to create your part number (ex: TVRAM-06DZ-11-35PAC)

1. Series	2. Shell Type	3. Service Class	4. Shell Size - Insert Arrangement	5. Contact Type	6. Alt Rotation	7. Lanyard Length Code*	8. Modification (Optional)
TVRAM	-06	DZ	11-35	P	A	C	

1. SERIES

TVRAM	38999 Ram-Lock Push-Pull Crimp Connectors

2. SHELL TYPE

CABLE MOUNTED PLUG	
-06	In-Line Plug
-96	w. Bonding Platform
-16	w. Lanyard Attachment
RECEPTACLE	
-00	Wall Mount
-01	In-Line
-07	Jam Nut

3. SERVICE CLASS

			ROHS
ALUMINUM	DS	AP-93	Yes
	DR	Electroless Nickel	Yes
	DW	Olive Drab Cadmium	
	DT	Durmalon (Ni PTFE)	Yes
	DZ	Black Zinc Nickel	Yes
STEEL	RK	Stainless Steel	Yes
	RS	Stainless Steel with Nickel Plate	Yes

4. SHELL SIZE - INSERT ARRANGEMENT

9	9-35	9-98	9-94
11	11-35	11-4	11-5
	11-98	11-99	11-1
	11-12		
13	13-4	13-8	13-26
	13-35	13-63	13-98
15	15-4	15-5	15-15
	15-18	15-19	15-35
	15-97		

5. CONTACT TYPE

CRIMP	P	Pin
	S	Socket
	A	Pin-Less Contacts
	B	Socket-Less Contacts

6. ALTERNATE ROTATION

N	C
A	D
B	E

7. LANYARD LENGTH CODE**

LANYARD LENGTH (IN.) ±.236	LANYARD LENGTH (MM.) ±.6.0	LANYARD LENGTH CODE FOR PART NUMBER
4.016	102	A
4.528	115	B
5.000	127	C
5.512	140	D
6.024	153	E
6.535	166	F
7.008	178	G
7.520	191	H
7.992	203	I
8.503	216	J
9.016	229	K
9.528	242	L
10.000	254	M
10.512	267	N
11.024	280	P
11.535	293	R
12.008	305	S
12.520	318	T
13.031	331	U
14.016	356	V
15.000	381	W
16.024	407	X
17.008	432	Y
18.031	458	Z

Visual Representation

Cable Mounted Plug

In-Line Receptacle

Square Flange Receptacle

* For Lanyard Plugs only, omit for other connectors
** Dimension from front of plug to rear of lanyard when pulled taught over a .500" diameter mandrel

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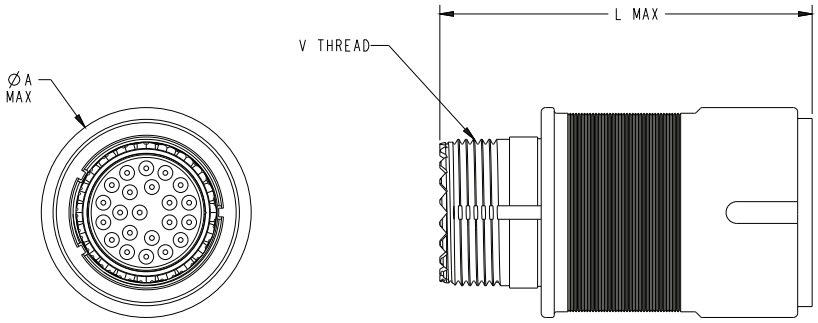
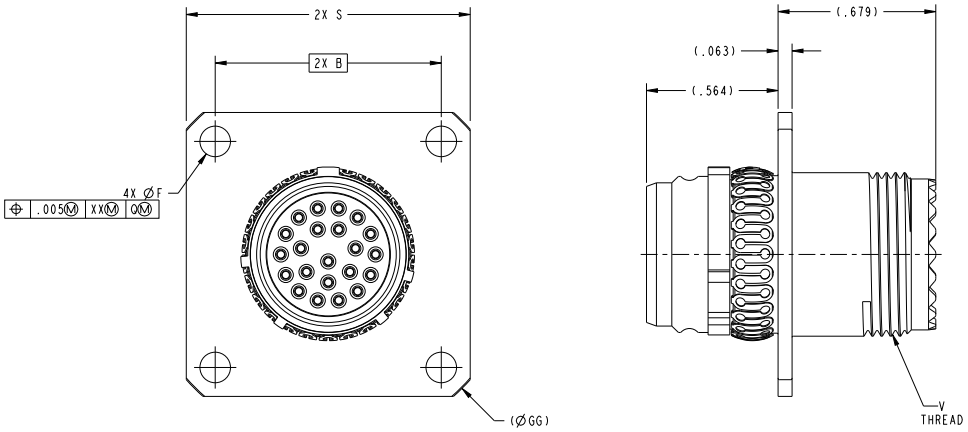
TVRAM06 – IN-LINE PLUG



SHELL SIZE	V THREAD BLUNT START	ØA MAX	L MAX
9	M12 X 1. -6G .100R	.785	1.730
11	M15 X 1. -6G .100R	.912	
13	M18 X 1. -6G .100R	.974	
15	M22 X 1. -6G .100R	1.198	

TVRAM00 – WALL MOUNT RECEPTACLE



SHELL SIZE	V THREAD BLUNT START	B	F ± .003	S ± .009	ØGG ± .005
9	M12 X 1. -6G .100R	.812	.128	1.032	1.375
11	M15 X 1. -6G .100R	.906	.128	1.126	1.500
13	M18 X 1. -6G .100R	.969	.128	1.220	1.625
15	M22 X 1. -6G .100R	1.062	.128	1.313	1.750

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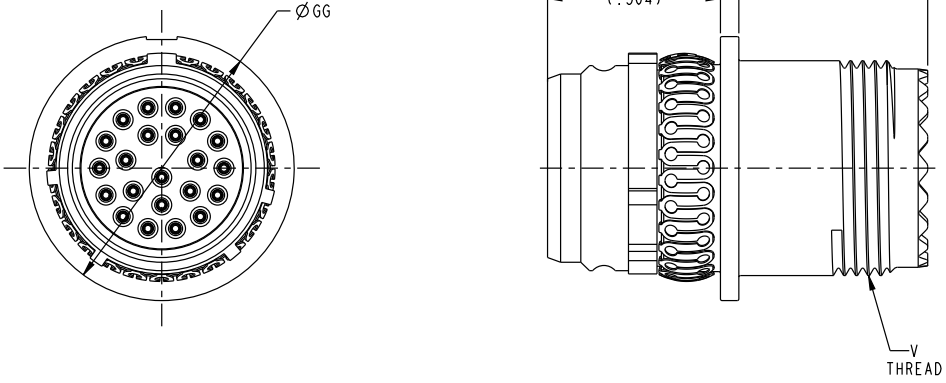
TVRAM01 – IN-LINE RECEPTACLE



SHELL SIZE	V THREAD BLUNT START	GG ± .005
9	M12 x 1. -6g . 100R	.679
11	M15 x 1. -6g . 100R	.805
13	M18 x 1. -6g . 100R	.867
15	M22 x 1. -6g . 100R	1.092

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