

Bulkhead Feed-Through Connectors

Removes the need for
discrete wire termination.



PDS-246-1

WHAT IS IT?

- Double-ended receptacles, with feed-through contacts
- Removes the need for discrete wire termination when assembling the connector
- Available in multiple shell and contact styles
- Flexible design to meet your specific application needs
- Designed to meet applicable requirements for 38999 Series III
- Offer mating option to Mil-Spec plugs
- Allow for long-term ease of assembly and serviceability

BULKHEAD FEED-THROUGH BENEFITS

Corrosion Resistance

Stainless Steel & Olive Drab Cadmium shells capable of withstanding 500 hours of salt spray.

Environmentally Sealed

Environmentally sealed when mated with Mil-Spec plug.

Gender Availability

Available in a variety of gender options tailored to your application needs.

Contact Protection

Recessed pins in this 100% scoop-proof connector minimize potential contact damage.

Versatile

Mates to standard D38999 plug connectors (D38999/26).

Temperature

Performs in ranges from -65°C through 200°C.

OPTIONS

- Standard D38999 insert patterns
- Available in improved leak rate (10^{-4}) versions
- Contact Amphenol for Firewall Capability
- Mil-Spec platings available for both aluminum and stainless steel shells
- Also available: filtering, thermocouple, high speed, & fiber optics, contact Amphenol for more information



Amphenol®
Aerospace

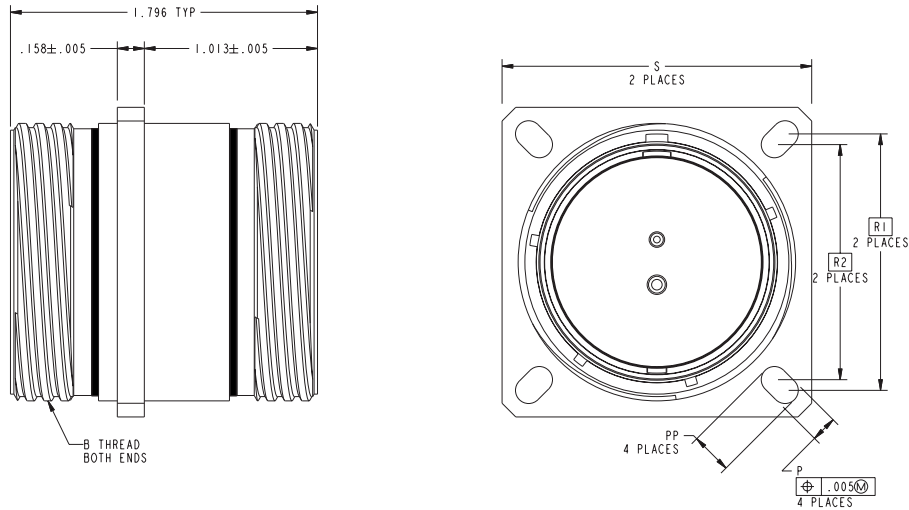
40-60 Delaware Ave
Sidney NY 13838-1395
Phone: 800-678-0141

Contact Ben Tomaino at 607-563-5188 or btomaino@amphenol-ao.com for additional information.

Visit our website at www.amphenol-aerospace.com

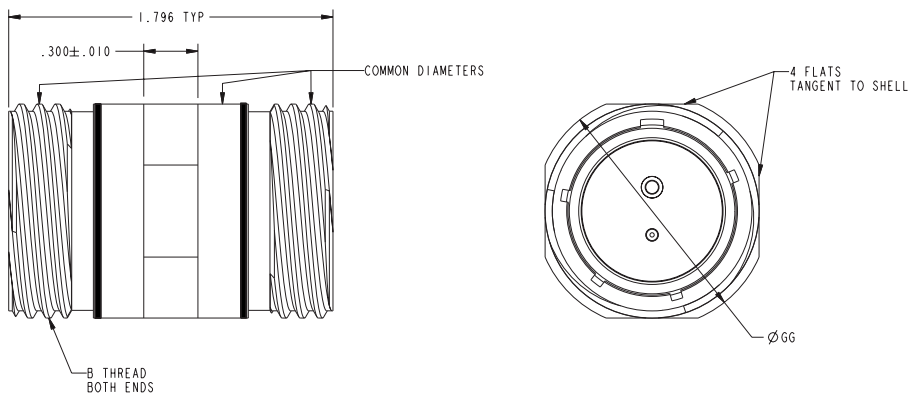
LINE DRAWINGS & SPECIFICATIONS

TVB00 - Wall Mount



Connector Size	B Thread Class 2A, Blunt Start per 9-3200-2	P ±.007	PP ±.007	R1	R2	S ±.010
9	.6250-0.1P-0.3L-TS	.128	.216	.719	.594	.937
11	.7500-0.1P-0.3L-TS	.128	.194	.812	.719	1.031
13	.8750-0.1P-0.3L-TS	.128	.194	.906	.812	1.126
15	1.0000-0.1P-0.3L-TS	.128	.173	.969	.906	1.220
17	1.1875-0.1P-0.3L-TS	.128	.194	1.062	.969	1.311
19	1.2500-0.1P-0.3L-TS	.128	.194	1.156	1.062	1.437
21	1.3750-0.1P-0.3L-TS	.128	.194	1.250	1.156	1.563
23	1.5000-0.1P-0.3L-TS	.154	.242	1.375	1.250	1.689
25	1.6250-0.1P-0.3L-TS	.154	.242	1.500	1.375	1.811

TVB01 - In-Line



Connector Size	B Thread Class 2A, Blunt Start	Ø GG
9	.6250-0.1P0.3L-TS	.725
11	.7500-0.1P0.3L-TS	.850
13	.8750-0.1P0.3L-TS	.975
15	1.0000-0.1P0.3L-TS	1.100
17	1.1875-0.1P0.3L-TS	1.290
19	1.2500-0.1P0.3L-TS	1.350
21	1.3750-0.1P0.3L-TS	1.475
23	1.5000-0.1P0.3L-TS	1.600
25	1.6250-0.1P0.3L-TS	1.725

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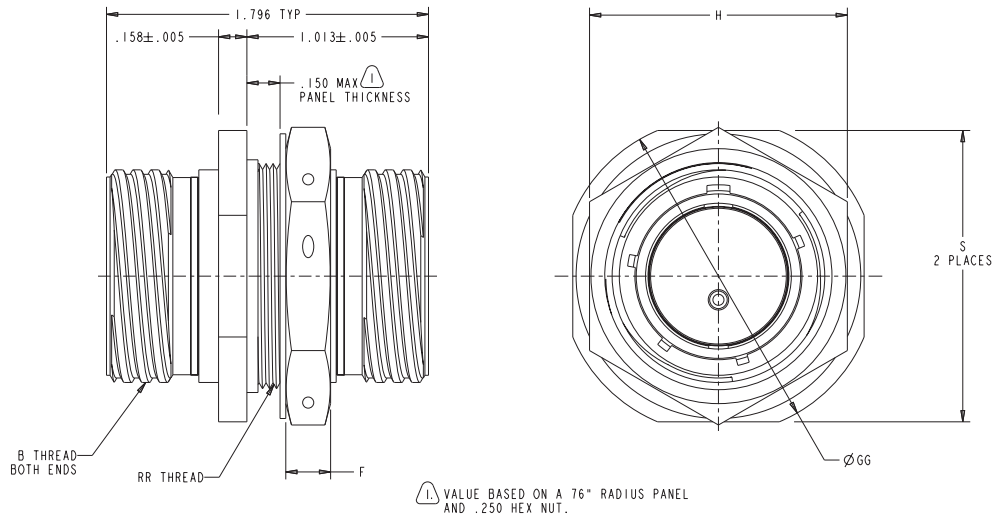
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LINE DRAWINGS & SPECIFICATIONS

TVB07 - Jam Nut



Connector Size	B Thread Class 2A	S	Ø GG	RR Thread		H Hex ±.016
9	.6250-0.IP-0.3L-TS	1.062	1.188	M17X1-6g	N/A	.875
11	.7500-0.IP-0.3L-TS	1.250	1.375	M20X1-6g	N/A	1.000
13	.8750-0.IP-0.3L-TS	1.375	1.500	M25X1-6g	N/A	1.188
15	1.0000-0.IP-0.3L-TS	1.500	1.625	M28X1-6g	N/A	1.312
17	1.1875-0.IP-0.3L-TS	1.625	1.750	M32X1-6g	31.92-31.80	1.438
19	1.2500-0.IP-0.3L-TS	1.812	1.938	M35X1-6g	N/A	1.562
21	1.3750-0.IP-0.3L-TS	1.938	2.062	M38X1-6g	N/A	1.688
23	1.5000-0.IP-0.3L-TS	2.062	2.188	M41X1-6g	N/A	1.812
25	1.6250-0.IP-0.3L-TS	2.188	2.312	M44X1-6g	N/A	2.000

F
.184 +.002 -.005
.250 +.010 -.000

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HOW TO ORDER

Easy steps to build a part number...Bulkhead Feed-Through 38999 Series III (Contact Amphenol for additional series)

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

Connector Type	Shell Style	Service Class	Shell Size – Insert Arrangement	Contact Type	Alternate Positions
TVB	07	RW	23-151	SP	B

Note: Panel Accommodations: .060 - .150"

Step 1. Select a Connector Type

	Designates
TVB	Bulkhead Feed-Through Connector

Step 2. Select a Shell Style

	Designates
00	Wall mount receptacle
01	Line receptacle
07	Jam nut receptacle

Step 3. Select a Service Class

	Designates
RF	Aluminum, Electroless nickel
RW	Aluminum, Olive drab cadmium
RL	Stainless steel, Electroless nickel
RK	Stainless steel, Firewall capability - Contact Amphenol for Availability
DT	Aluminum, Durmalon
DZ	Aluminum, Black Zinc-Nickel



Step 4. Select a Shell Size – Insert Arrangement

Shell Sizes are per MIL-DTL-38999 Series III

Shell Size	Insert Arrangement
9-	Fill in applicable 38999 insert patterns.
11-	
13-	
15-	
17-	
19-	
21-	
23-	
25-	

Note: Contact factory for insert availability.

Step 5. Select a Contact Type

	Designates
SP	Socket-Pin
PS	Pin-Socket
PP	Pin-Pin

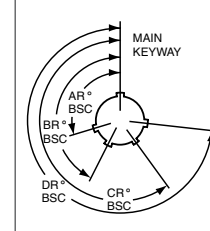
Note: For Jam Nut/Wall Mount versions the first letter designates the panel side of the connector (see drawing) while the second letter in the sequence designates the opposite side. The In-Line can be reversed.

Step 6. Select an Alternate Position

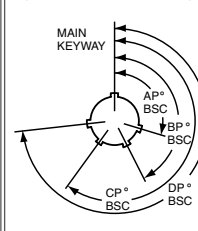
A, B, C, D, E or blank for normal.

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

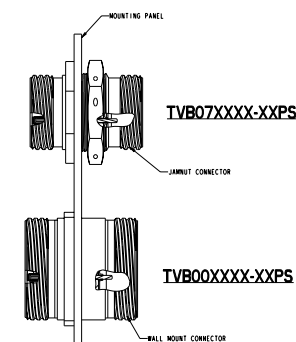
RECEPTACLE (front face shown)



PLUG (front face shown)



A plug with a given rotation letter will mate with a receptacle with the same rotation letter. The angles for a given connector are the same whether it contains pins or sockets. Inserts are not rotated in conjunction with the master key/keyway.



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