

D38999 SERIES III - STYLE PCB CONNECTORS

FOR PRINTED CIRCUIT BOARD APPLICATIONS

PDS - 273-7



38999 SERIES III CONNECTORS ARE IDEAL FOR PRINTED CIRCUIT BOARD APPLICATIONS, EITHER WITH RIGID ATTACHMENT OR WITH FLEX PRINT ASSEMBLY ATTACHMENT

Amphenol provides circular connectors with PC Tail contacts. This product data sheet features the 38999 Series III connectors which are ideal for printed circuit board applications, either with rigid attachment or with flex print assembly attachment. For information on other Amphenol circular connectors with PC Tail contacts, consult Amphenol Aerospace.

FEATURES & BENEFITS:

- Connectors meet all applicable requirements of MIL-DTL-38999
- Contacts meet all applicable requirements of AS39029
- All contacts come pre-assembled into the connectors
- Double Flange and Standoff styles available to improve grounding and avoid stress on contacts
- Optional alignment disks make assembly easy
- Available with clinch nuts installed
- Contact pre-tinning options available; see Amphenol Aerospace for details.



HOW TO ORDER

PART NUMBER KEY

1. Type	2. Shell Style	3. Service Class	4. Shell Size & Insert Arrangement	5. Contact Type	6. Alternate Position*	7.1 PCB Termination	7.2 PCB Length	7.3 PCB Acc	7.4 PCB Tinning Option
TVP	00	RW	11-4	P	A	P	45	AD	T1

1. Connector Type	
TV	Tri-Start, 175°C
TVS	Tri-Start, 200°C
TVP	Tri-Start, Panel Mounted, 175°C
TVPS	Tri-Start, Panel Mounted, 200°C
PTV	Potted Version, Tri-Start, 175°C
PTVS	Potted Version, Tri-Start, 200°C
CTV	Composite, Tri-Start, 175°C
CTVS	Composite, Tri-Start, 200°C
CTVP	Composite, Tri-Start, Panel Mount, 175°C
CTVPS	Composite, Tri-Start, Panel Mount, 200°C

2. Shell Style	
00	Wall Mount Receptacle
10	Wall Mount Receptacle Clinch Nuts
11	Wall Mount with Metric Clinch Nuts
40	Wall Mount Receptacle Double Flange
42	Wall Mount with Helicoils in Flange
43	Wall Mount Receptacle Double Flange with Nut Plates
02	Box Mount Receptacle
12	Box Mount Receptacle Clinch Nuts
13	Box Mount with Metric Clinch Nuts
07	Jam Nut Receptacle
17	Jam Nut with Washout Standoffs
18	Jam Nut Flush Flange
38	Jam Nut 3 Post Reduced Flange
47	Jam Nut Double Flange Receptacle
48	Jam Nut Reduced Flange with Double Flange
97	Jam Nut Reduced Flange
98	Jam Nut Reduced Flange with Standoffs

HOW TO ORDER

PART NUMBER KEY

1. Type	2. Shell Style	3. Service Class	4. Shell Size & Insert Arrangement	5. Contact Type	6. Alternate Position*	7.1 PCB Termination	7.2 PCB Length	7.3 PCB Acc	7.4 PCB Tinning Option
TVP	00	RW	11-4	P	A	P	45	AD	T1

3. Service Class, Aluminum 175°C

DT	Durmalon: Plated alternative to cadmium, corrosion resistant, 500 hrs. extended salt spray, -50dB@10GHz	
DZ	Black Zinc-Nickel: Alternative to cadmium, 500 hrs. salt spray, conductive, -50dB@10GHz	
RW	Olive Drab Cadmium: 500 hrs. salt spray, -65dB@10GHz	
DW	Corrosion Resistant Olive Drab Cadmium: 1,000 hrs. extended salt spray	

3. Service Class, Aluminum 200°C

RF	Electroless Nickel: 48 hrs. salt spray, -65dB@10GHz	
RB	Marine Bronze: 500 hrs. salt spray, -65dB@10GHz	
DS	AP-93™ Plating Tri-Nickel Alloy: 1,000 hrs. salt spray, intermateable with cadmium	
DB	Black Electroless Nickel: 100 hrs. salt spray	
RB	Marine Bronze: 500 hrs.	

3. Service Class, Composite 175°C

RW	Olive Drab Cadmium: 2,000 hrs. salt spray, -65dB@10GHz	
DT	Durmalon: Plated alternative to cadmium, corrosion resistant, 500 hrs. extended salt spray, -50dB@10GHz	
DZ	Black Zinc-Nickel: Alternative to cadmium, 500 hrs. salt spray, conductive, -50dB@10GHz	

3. Service Class, Composite 200°C

RF	Electroless Nickel: 2,000 hrs. salt spray, -65dB@10GHz	
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3. Service Class, Stainless Steel 200°C

RK	Corrosion Resistant Stainless Steel: (Firewall) 500 hrs. salt spray resistance, -65dB@10GHz	
RKN	Corrosion Resistant Passivated Stainless Steel: (Non-Firewall), 500 hrs. salt spray resistance, -65dB@10GHz	
RS	(Non-Hermetic), Nickel plated: Corrosion resistant steel, (Firewall), 500 hrs. salt spray, EMI shielding -65dB @ 10GHz specification min.	
RL	Corrosion Resistant Steel: Nickel Plated, (Non-Firewall) 500 hrs. salt spray, -50dB@10GHz	
DSK	Firewall AP93 AP-93™ Plating Tri-Nickel Alloy: 1,000 hrs. salt spray, intermateable with cadmium	
DSN	Non-Firewall AP-93™ Plating Tri-Nickel Alloy: 1,000 hrs. salt spray, intermateable with cadmium	

4. Shell Size & Insert Arrangement

Refer to Amphenol Insert Arrangement table. Coded numbers not available for size 8 contacts, see Amphenol for how to order.

5. Contact Type

P	Pin Contacts
S	Socket Contacts

HOW TO ORDER

PART NUMBER KEY

1. Type	2. Shell Style	3. Service Class	4. Shell Size & Insert Arrangement	5. Contact Type	6. Alternate Position*	7.1 PCB Termination	7.2 PCB Length	7.3 PCB Acc	7.4 PCB Tinning Option
TVP	00	RW	11-4	P	A	P	45	AD	T1

6. ALTERNATE KEYING

Shell Size	Key & Keyway Arrangement Identification Letter	AR° or AP° BSC	BR° or BP° BSC	CR° or CP° BSC	DR° or DP° BSC
9	*Blank	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	*Blank	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	*Blank	80	142	196	293
	A	135	170	200	310
	B	49	169	200	244
	C	66	140	200	257
	D	62	145	180	280
21, 23, and 25	*Blank	79	153	197	272
	A	135	170	200	310
	B	49	169	200	244
	C	66	140	200	257
	D	62	145	180	280
25L, 33, and 37	*Blank	80	142	188	293
	A	135	170	188	310
	B	49	169	188	244
	C	66	140	188	257
	D	62	145	188	280
25L, 33, and 37	E	79	153	188	272

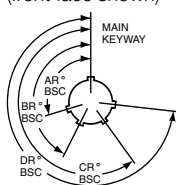
* Leave blank for Normal Rotation

KEY/KEYWAY POSITION

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. Master key stays fixed, minor keys rotate. Inserts are not rotated in conjunction with the master key/keyway.

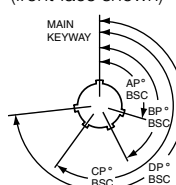
RECEPTACLE

(front face shown)

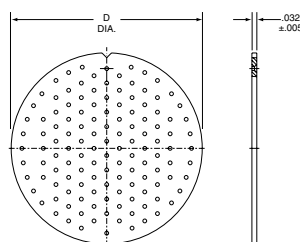


PLUG

(front face shown)



Alignment Disc



Shell Size	D Dia. ±.010
9	.234
11	.350
13	.500
15	.725
17	.750
19	.850
21	.953
23	1.147
25	1.250

7.1 TERMINATION

P	Pin
S	Socket

7.2 PCB LENGTH

10	.100"
15	.150"
20	.200"
25	.250"
30	.300"
35	.350"
40	.400"
45	.450"

Note: Nominal (±) .040"

7.3 ACCESSORIES

AD	Alignment Disc
	No Disc

7.4 TINNING OPTIONS

	Standard Gold Plating
T	Tin-Lead Solder
T1	Tin-Silver Solder
T2	SAC 305

Example Configuration: "P15" PCB Connector with .150 length gold plated contacts

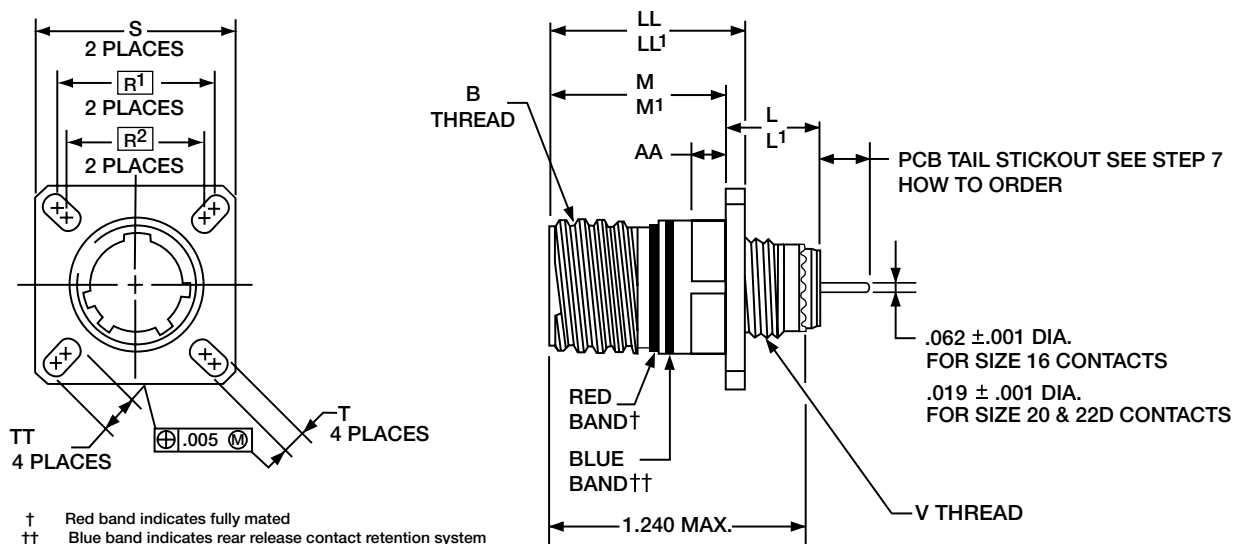
Example Configuration: "S25T" PCB connector with .250 stickout length, gold plated contacts with tin-lead solder

Example Configuration: "P45ADT1" PCB connector with .450 stickout length, gold plated contacts with tin-silver solder and an alignment disc

PCB WALL MOUNTING RECEPTACLE (00)

BACK PANEL MOUNTING

ALUMINUM	STAINLESS STEEL	COMPOSITE
TVP00RW	TVPS00RK	CTVP00RW
TVP00DT	TVPS00RKN	CTVP00DT
TVP00DW	TVPS00RS	CTVP00DZ
TVP00DZ	TVPS00RL	CTVPS00RF
TVPS00RF	TVPS00DSK	
TVPS00RB	TVPS00DSN	
TVPS00DB		
TVPS00DS		



Shell Size	B Thread Class 2A (Plated) 0.1P-0.3L-TS	L Max. (TV)	L' Max. (CTV)	M +.000 - .005 (TV)	M' +.000 - .005 (CTV)	R1	R2	S Max.	T +.008 - .006	V Thread Metric	AA Max. Panel Thickness	LL +.006 - .000 (TV)	LL' ±.005 (CTV)	TT +.008 - .006
9	.6250	.469	.514	.820	.773	.719	.594	.948	.128	M12X1-6g	.234	.905	.908	.216
11	.7500	.469	.514	.820	.773	.812	.719	1.043	.128	M15X1-6g	.234	.905	.908	.194
13	.8750	.469	.514	.820	.773	.906	.812	1.137	.128	M18X1-6g	.234	.905	.908	.194
15	1.0000	.469	.514	.820	.773	.969	.906	1.232	.128	M22X1-6g	.234	.905	.908	.173
17	1.1875	.469	.514	.820	.773	1.062	.969	1.323	.128	M25X1-6g	.234	.905	.908	.194
19	1.2500	.469	.514	.820	.773	1.156	1.062	1.449	.128	M28X1-6g	.234	.905	.908	.194
21	1.3750	.500	.545	.790	.741	1.250	1.156	1.575	.128	M31X1-6g	.204	.905	.904	.194
23	1.5000	.500	.545	.790	.741	1.375	1.250	1.701	.154	M34X1-6g	.204	.905	.904	.242
25	1.6250	.500	.545	.790	.741	1.500	1.375	1.823	.154	M37X1-6g	.204	.905	.904	.242

All dimensions for reference only.

Most common options are shown; other options are available.

□ Designates true position dimensioning

PCB WALL MOUNTING RECEPTACLE (10, 11)

BACK PANEL MOUNTING (WITH CLINCH NUTS) (METRIC 11)

ALUMINUM

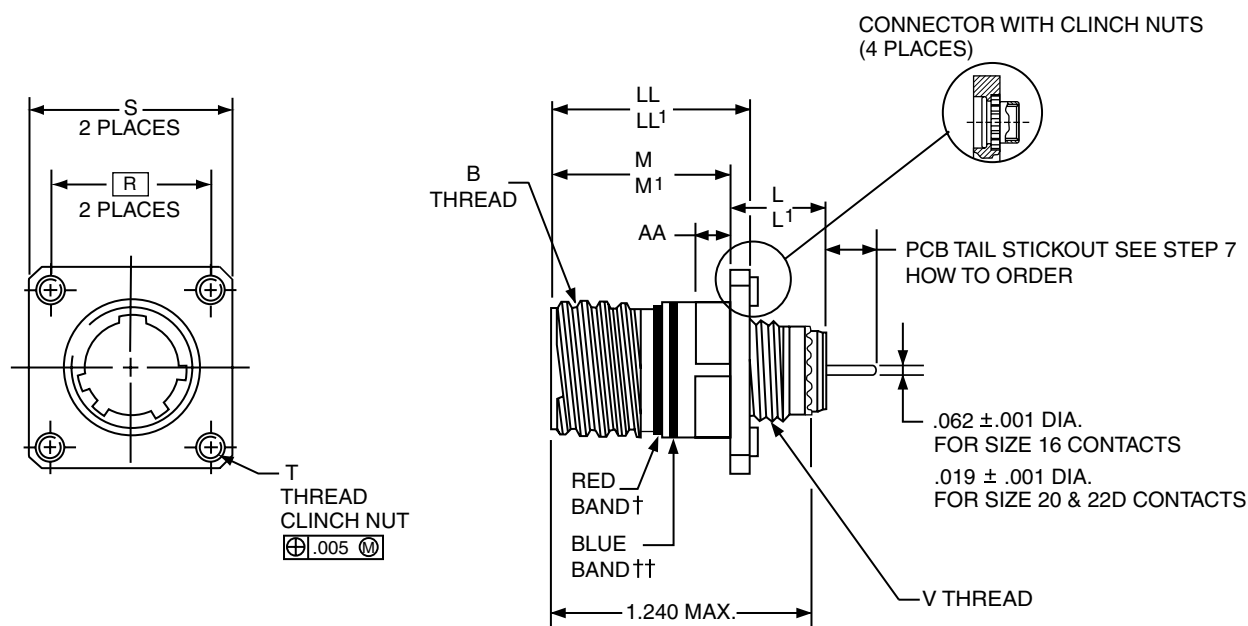
TVP10DT TVP11DT
TVP10DW TVP11DW
TVP10DZ TVP11DZ
TVP10RW TVP11RW
TVPS10RF TVPS11RF
TVPS10RB TVPS11RB
TVPS10DB TVPS11DB
TVPS10DS TVPS11DS

STAINLESS STEEL

TVPS10RK TVPS11RK
TVPS10RKN TVPS11RKN
TVPS10RS TVPS11RS
TVPS10RL TVPS11RL
TVPS10DSK TVPS11DSK
TVPS10DSN TVPS11DSN

COMPOSITE

CTVP10RW CTVP11RW
CTVP10DT CTVP11DT
CTVP10DZ CTVP11DZ
CTVPS10RF CTVPS11RF



Shell Size	B Thread Class 2A (Plated) 0.1P-0.3L-TS	L Max. (TV)	L' Max. (CTV)	M +.000 - .005 (TV)	M' +.000 - .005 (CTV)	R	S Max. (TV)	S Max. (CTV)	T Thread	V Thread Metric	AA Max. Panel Thickness	LL +.006 - .000 (TV)	LL' ±.005 (CTV)
9	.6250	.469	.514	.820	.773	.719	1.094	.942	.112-40UNC-3B	M12X1-6g	.234	.905	.908
11	.7500	.469	.514	.820	.773	.812	1.187	1.037	.112-40UNC-3B	M15X1-6g	.234	.905	.908
13	.8750	.469	.514	.820	.773	.906	1.281	1.131	.112-40UNC-3B	M18X1-6g	.234	.905	.908
15	1.0000	.469	.514	.820	.773	.969	1.344	1.226	.112-40UNC-3B	M22X1-6g	.234	.905	.908
17	1.1875	.469	.514	.820	.773	1.062	1.437	1.316	.112-40UNC-3B	M25X1-6g	.234	.905	.908
19	1.2500	.469	.514	.820	.773	1.156	1.531	1.442	.112-40UNC-3B	M28X1-6g	.234	.905	.908
21	1.3750	.500	.545	.790	.741	1.250	1.625	1.568	.112-40UNC-3B	M31X1-6g	.204	.905	.904
23	1.5000	.500	.545	.790	.741	1.375	1.750	1.694	.138-32UNC-3B	M34X1-6g	.204	.905	.904
25	1.6250	.500	.545	.790	.741	1.500	1.875	1.816	.138-32UNC-3B	M37X1-6g	.204	.905	.904

All dimensions for reference only.

Consult Amphenol for more information on ordering connectors with clinch nuts.

Most common options are shown; other options are available.

□ Designates true position dimensioning

† Red band indicates fully mated

†† Blue band indicates rear release contact retention system

PCB WALL MOUNTING RECEPTACLE (40)

DOUBLE FLANGE PANEL MOUNTING

ALUMINUM

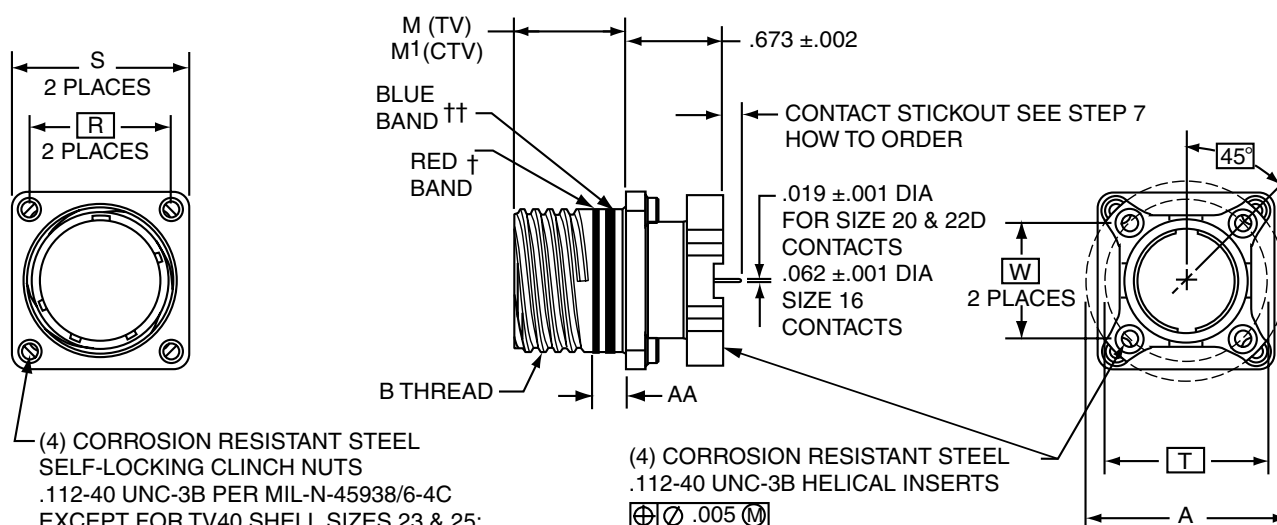
TVP40RW
TVP40DT
TVP40DW
TVP40DZ
TVPS40RF
TVPS40RB
TVPS40DB
TVPS40DS

STAINLESS STEEL

TVPS40RK
TVPS40RKN
TVPS40RS
TVPS40RL
TVPS40DSK
TVPS40DSN

COMPOSITE

CTVP40RW
CTVP40DT
CTVP40DZ
CTVPS40RF



Ⓢ Ⓢ .005 Ⓢ

Shell Size	MS Shell Size Code (For Ref.)	A Dia. ±.005 (TV)	A Dia. ±.005 (CTV)	B Thread Class 2A (Plated) 0.1P-0.3L-TS	M +.000 - .005	M' ±.003 (CTV)	R (Panel Mount) (CTV)	R (Panel Mount) (TV)	S Max. (TV)	S Max. (CTV)	AA Max. Panel Thickness	PCB Mounting Dimensions	
												T Dia. (TV) TP	W (CTV) TP
9	A	NA	1.016	.6250	.820	.770	.719	N/A	1.134	.949	.234	NA	.532
11	B	1.062	1.148	.7500	.820	.770	.812	.766	1.227	1.042	.234	.850	.601
13	C	1.250	1.250	.8750	.820	.770	.906	.859	1.321	1.136	.234	.994	.703
15	D	1.375	1.375	1.0000	.820	.770	.969	.938	1.381	1.230	.234	1.119	.791
17	E	1.500	1.500	1.1875	.820	.770	1.062	1.016	1.477	1.323	.234	1.237	.875
19	F	1.625	1.625	1.2500	.820	.770	1.156	1.110	1.598	1.449	.234	1.379	.975
21	G	1.750	1.750	1.3750	.820	.738	1.250	1.206	1.724	1.573	.204	1.489	1.053
23	H	1.875	1.875	1.5000	.820	.738	1.375	1.312	1.850	1.699	.204	1.619	1.195
25	J	2.000	2.000	1.6250	.820	.738	1.500	1.438	1.972	1.823	.204	1.744	1.233

All dimensions for reference only.

□ Designates true position dimensioning

† Red band indicates fully mated

†† Blue band indicates rear release contact retention system

PCB WALL MOUNTING RECEPTACLE (43)

DOUBLE FLANGE BACK PANEL MOUNTING

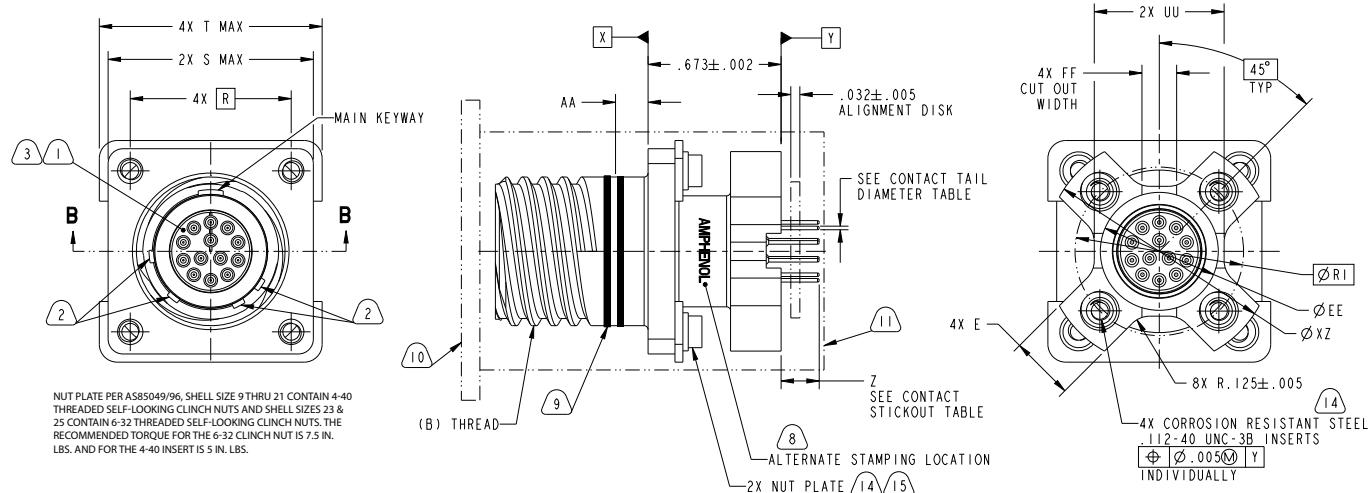
COMPOSITE

CTVPS43RF

CTVP43RW

CTVP43DT

CTVP43DZ



FX-787852-35() ARRANGEMENT SHOWN

Shell Size	MS Shell Size Code (For Ref.)	A Dia. ±.005 (CTV)	B Thread Class 2A (Plated) 0.1P-0.3L-TS	M' ±.003 (CTV)	R (Panel Mount) (CTV)	S Max. (CTV)	T Max.	AA Max. Panel Thickness	PCB Mounting W (CTV) TP
9	A	1.016	.6250	.770	.719	.949	1.034	.234	.532
11	B	1.148	.7500	.770	.812	1.042	1.124	.234	.601
13	C	1.250	.8750	.770	.906	1.136	1.218	.234	.703
15	D	1.375	1.0000	.770	.969	1.230	1.295	.234	.791
17	E	1.500	1.1875	.770	1.062	1.323	1.405	.234	.875
19	F	1.625	1.2500	.770	1.156	1.449	1.550	.234	.975
21	G	1.750	1.3750	.738	1.250	1.573	1.680	.204	1.053
23	H	1.875	1.5000	.738	1.375	1.699	1.800	.204	1.195
25	J	2.000	1.6250	.738	1.500	1.823	1.906	.204	1.233

All dimensions for reference only.

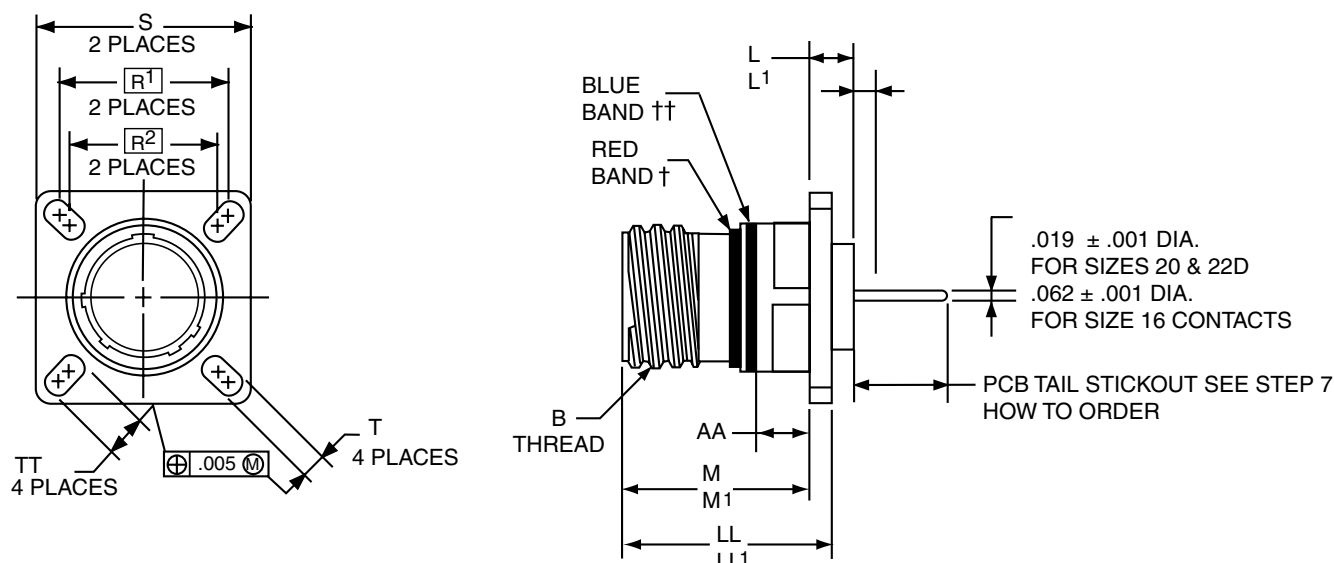
□ Designates true position dimensioning

† Red band indicates fully mated

†† Blue band indicates rear release contact retention system

PCB BOX MOUNTING RECEPTACLE (02)

ALUMINUM	STAINLESS STEEL	COMPOSITE
TVP02RW	TVPS02RK	CTVP02RW
TVP02DT	TVPS02RKN	CTVP02DT
TVP02DW	TVPS02RS	CTVP02DZ
TVP02DZ	TVPS02RL	CTVPS02RF
TVPS02RF	TVPS02DSK	
TVPS02RB	TVPS02DSN	
TVPS02DB		
TVPS02DS		



Shell Size	B Thread Class 2A (Plated) 0.1P-0.3L-TS	L Max. (TV)	L' Max. (CTV)	M +.000 - .005 (TV)	M' +.000 - .005 (CTV)	R1	R2	S Max.	T +.008 - .006	AA Max. Panel Thickness	LL +.006 - .000 (TV)	LL' ±.005 (CTV)	TT ±.008
9	.6250	.205	.250	.820	.773	.719	.594	.948	.128	.234	.905	.908	.216
11	.7500	.205	.250	.820	.773	.812	.719	1.043	.128	.234	.905	.908	.194
13	.8750	.205	.250	.820	.773	.906	.812	1.137	.128	.234	.905	.908	.194
15	1.0000	.205	.250	.820	.773	.969	.906	1.232	.128	.234	.905	.908	.173
17	1.1875	.205	.250	.820	.773	1.062	.969	1.323	.128	.234	.905	.908	.194
19	1.2500	.205	.250	.820	.773	1.156	1.062	1.449	.128	.234	.905	.908	.194
21	1.3750	.235	.280	.790	.741	1.250	1.156	1.575	.128	.204	.905	.904	.194
23	1.5000	.235	.280	.790	.741	1.375	1.250	1.701	.154	.204	.905	.904	.242
25	1.6250	.235	.280	.790	.741	1.500	1.375	1.823	.154	.204	.905	.904	.242

All dimensions for reference only.

Most common options are shown; other options are available.

□ Designates true position dimensioning

† Red band indicates fully mated

†† Blue band indicates rear release contact retention system

PCB BOX MOUNTING RECEPTACLE (12, 13)

(WITH CLINCH NUTS)

ALUMINUM

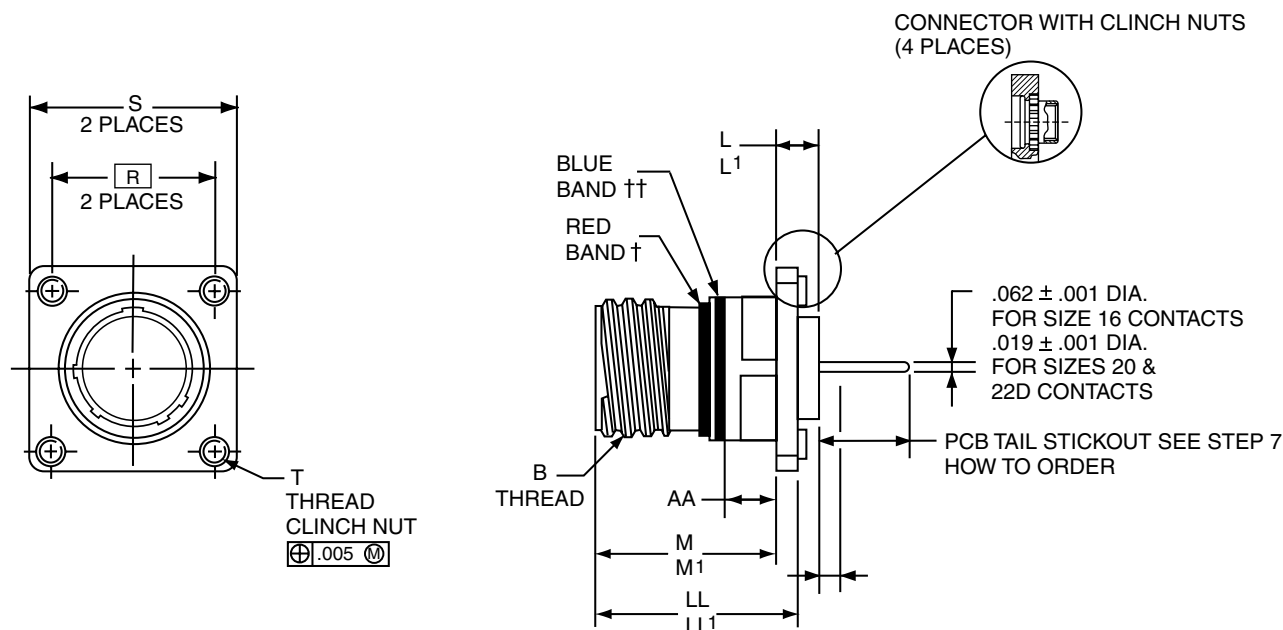
TVP12RW TVP13RW
TVP12DT TVP13DT
TVP12DW TVP13DW
TVP12DZ TVP13DZ
TVPS12RF TVPS13RF
TVPS12RB TVPS13RB
TVPS12DB TVPS13DB
TVPS12DS TVPS13DS

STAINLESS STEEL

TVPS12RK TVPS13RK
TVPS12RKN TVPS13RKN
TVPS12RS TVPS13RS
TVPS12RL TVPS13RL
TVPS12DSK TVPS13DSK
TVPS12DSN TVPS13DSN

COMPOSITE

CTVP12RW CTVP13RW
CTVP12DZ CTVP13DZ
CTVP12DT CTVP13DT
CTVPS12RF CTVPS13RF



Shell Size	B Thread Class 2A (Plated) 0.1P-0.3L-TS	L Max. (TV)	L ¹ Max. (CTV)	M +.000 - .005 (TV)	M ¹ +.000 - .005 (CTV)	R	S Max.	T Thread	AA Max. Panel Thickness	LL +.006 - .000 (TV)	LL ¹ +.006 - .000 (CTV)
9	.6250	.205	.250	.820	.773	.719	1.041	.112-40UNC-3B	.234	.905	.908
11	.7500	.205	.250	.820	.773	.812	1.135	.112-40UNC-3B	.234	.905	.908
13	.8750	.205	.250	.820	.773	.906	1.228	.112-40UNC-3B	.234	.905	.908
15	1.0000	.205	.250	.820	.773	.969	1.291	.112-40UNC-3B	.234	.905	.908
17	1.1875	.205	.250	.820	.773	1.062	1.385	.112-40UNC-3B	.234	.905	.908
19	1.2500	.205	.250	.820	.773	1.156	1.479	.112-40UNC-3B	.234	.905	.908
21	1.3750	.235	.280	.790	.741	1.250	1.573	.112-40UNC-3B	.204	.905	.904
23	1.5000	.235	.280	.790	.741	1.375	1.760	.112-40UNC-3B	.204	.905	.904
25	1.6250	.235	.280	.790	.741	1.500	1.885	.112-40UNC-3B	.204	.905	.904

All dimensions for reference only.
Most common options are shown; other options are available.

□ Designates true position dimensioning
† Red band indicates fully mated
†† Blue band indicates rear release contact retention system

PCB JAM NUT RECEPTACLE (07)

ALUMINUM

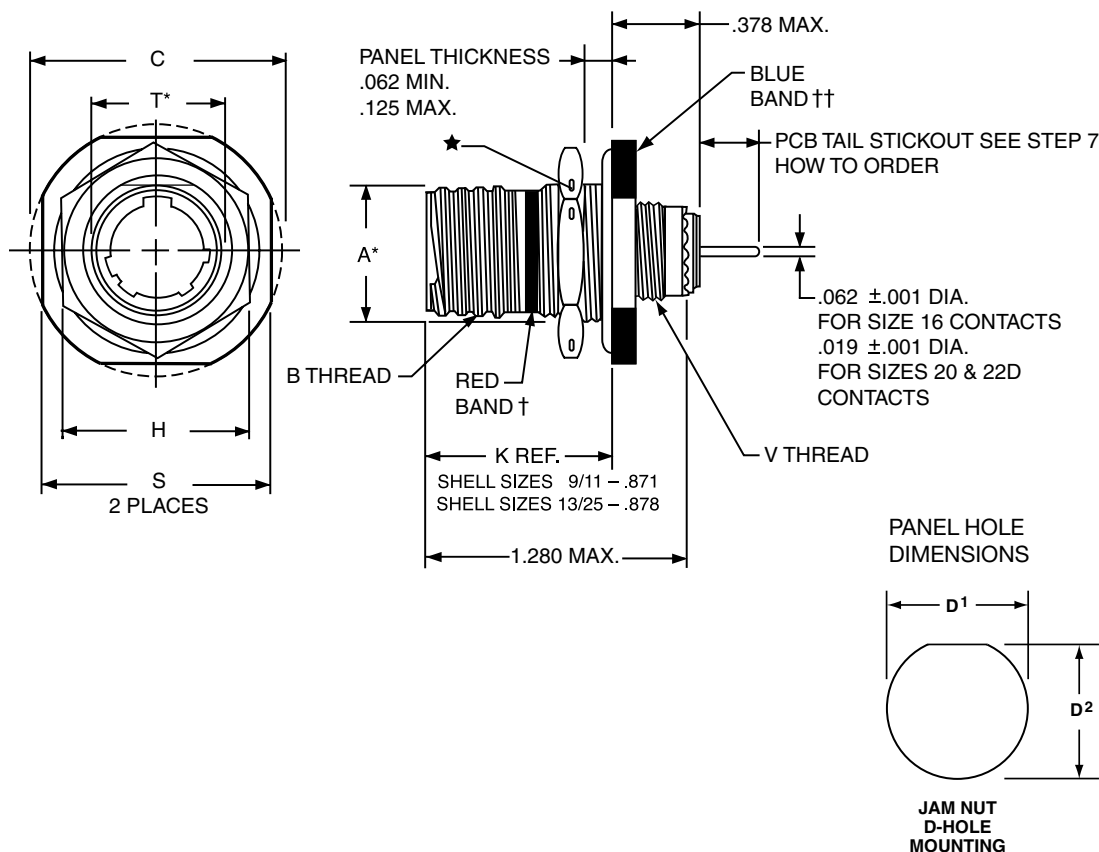
TV07RW
TV07DT
TV07DW
TV07DZ
TVS07RF
TVS07RB
TVS07DB
TVS07DS

STAINLESS STEEL

TVS07RK
TVS07RKN
TVS07RS
TVS07RL
TVS07DSK
TVS07DSN

COMPOSITE

CTV07RW
CTV07DT
CTV07DZ
CTVS07RF



Shell Size	A* +.000 -.010	B Thread Class 2A (Plated) 0.1P-0.3L-TS	C Max.	D1 +.010 -.000	D2 +.010 -.000	H Hex +.017 -.016	S ±.010	T +.010 -.000	V Thread Metric
9	.669	.6250	1.199	.700	.670	.875	1.062	.697	M12X1-6g
11	.769	.7500	1.386	.825	.770	1.000	1.250	.822	M15X1-6g
13	.955	.8750	1.511	1.010	.955	1.188	1.375	1.007	M18X1-6g
15	1.084	1.0000	1.636	1.135	1.085	1.312	1.500	1.134	M22X1-6g
17	1.208	1.1875	1.761	1.260	1.210	1.438	1.625	1.259	M25X1-6g
19	1.333	1.2500	1.949	1.385	1.335	1.562	1.812	1.384	M28X1-6g
21	1.459	1.3750	2.073	1.510	1.460	1.688	1.938	1.507	M31X1-6g
23	1.575	1.5000	2.199	1.635	1.585	1.812	2.062	1.634	M34X1-6g
25	1.709	1.6250	2.323	1.760	1.710	2.000	2.188	1.759	M37X1-6g

All dimensions for reference only.
Most common options are shown;
other options are available.

† Red band indicates fully mated
†† Blue band indicates rear release contact retention system
★ .059 dia. min. 3 lockwire holes. Formed lockwire hole design (6 holes) is optional. "D" shaped mounting hole dimensions

PCB JAM NUT RECEPTACLE (17)

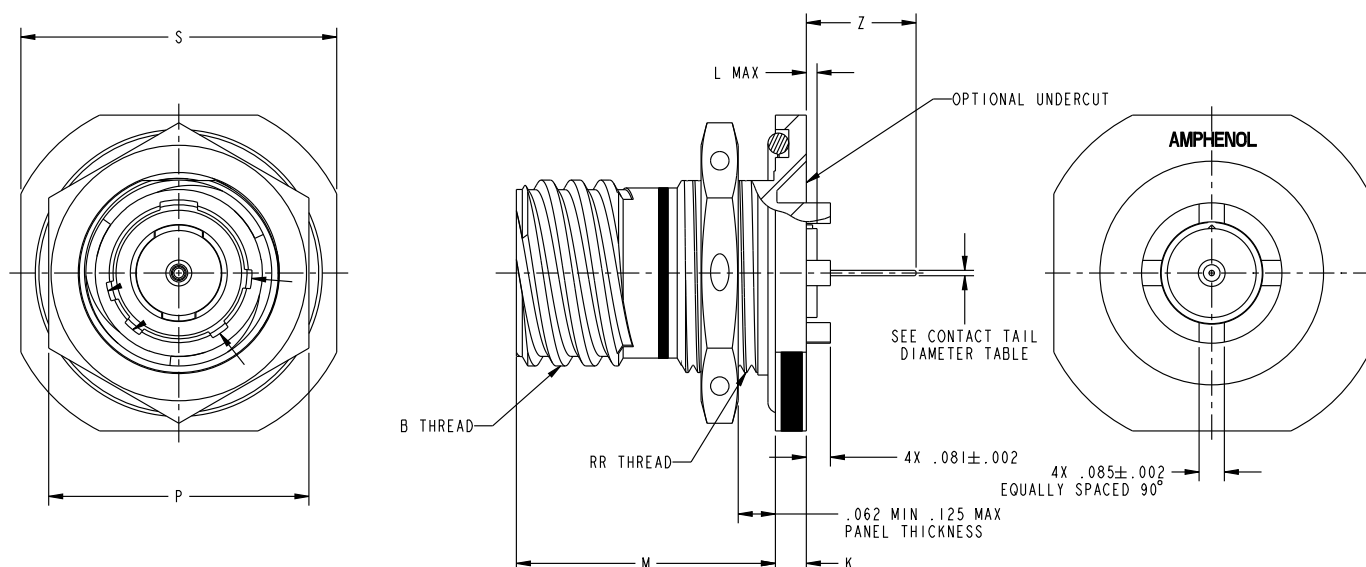
WASHOUT STANDOFFS

ALUMINUM

TV17RW
TV17DT
TV17DW
TV17DZ
TVS17RF
TVS17RB
TVS17DB
TVS17DS

STAINLESS STEEL

TVS17RK
TVS17RKN
TVS17RS
TVS17RL
TVS17DSK
TVS17DSN



All dimensions for reference only.
Most common options are shown;
other options are available.

Shell Size	B THREAD CLASS 2A (PLATED) PER 9-3200-2	K +.010 -.005	L MAX	M	P HEX +.017 -.016	S +.011 -.010	RR Thread (Plated) 9-7543
9	6250-0.1P-0.3L-TS	.104	.056	.871	.875	1.062	M17X1-6g 0.100R
11	7500-0.1P-0.3L-TS	.104	.056	.871	1.000	1.250	M20X1-6g 0.100R
13	8750-0.1P-0.3L-TS	.104	.049	.878	1.188	1.375	M25X1-6g 0.100R
15	1.0000-0.1P-0.3L-TS	.104	.049	.878	1.312	1.500	M28X1-6g 0.100R
17	1.1875-0.1P-0.3L-TS	.104	.049	.878	1.438	1.625	M32X1-6g 0.100R
19	1.2500-0.1P-0.3L-TS	.135	.018	.878	1.562	1.812	M35X1-6g 0.100R
21	1.3750-0.1P-0.3L-TS	.135	.018	.878	1.688	1.938	M38X1-6g 0.100R
23	1.5000-0.1P-0.3L-TS	.135	.018	.878	1.812	2.062	M41X1-6g 0.100R
25	1.6250-0.1P-0.3L-TS	.135	.018	.878	2.000	2.188	M44X1-6g 0.100R

PCB JAM NUT RECEPTABLE (18)

FLUSH FLANGE

ALUMINUM

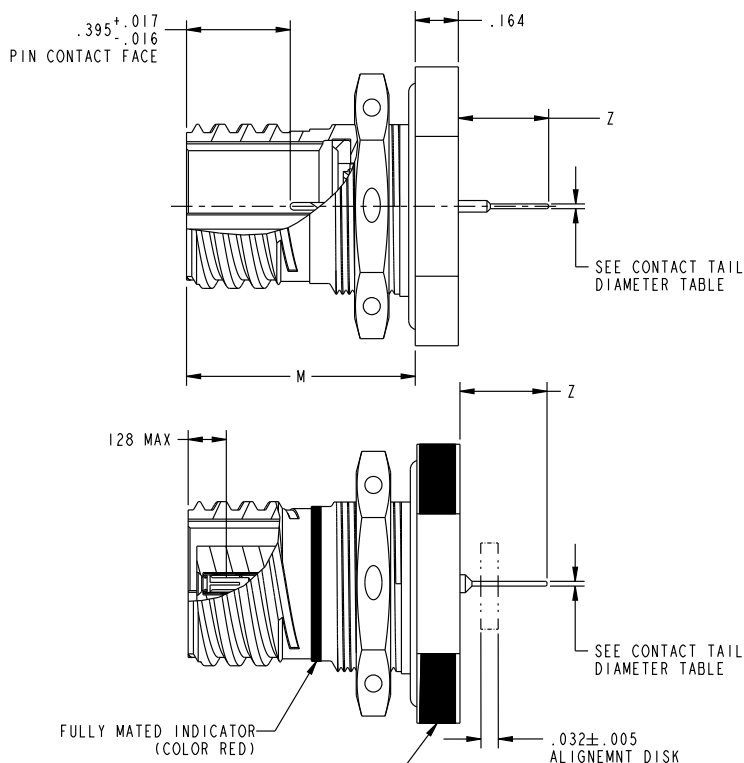
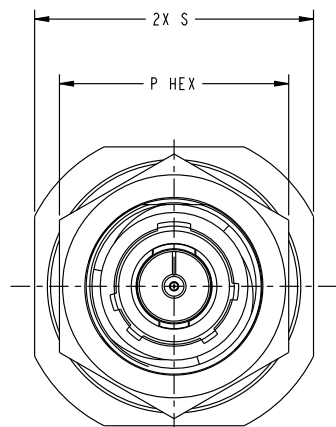
TV18RW
TV18DT
TV18DW
TV18DZ

STAINLESS STEEL

TVS18RB
TVS18RK
TVS18RKN
TVS18RS
TVS18RL
TVS18DSK
TVS18DSN

COMPOSITE

CTV18RW
CTV18DT
CTV18DZ
CTVS18RF



All dimensions for reference only.
Most common options are shown;
other options are available.

BLUE COLOR BAND DENOTES REAR RELEASE

Shell Size	BB THREAD PER MIL-DTL-38999 CLASS 2A	A +.010 -.005	M	P HEX +.017 -.016	S +.011 -.010	RR THREAD (METRIC)
9	.6250-0.1P-0.3L-TS	.104	.871	.875	1.062	M17X1-6g 0.100R
11	.7500-0.1P-0.3L-TS	.104	.871	1.000	1.250	M20X1-6g 0.100R
13	.8750-0.1P-0.3L-TS	.104	.878	1.188	1.375	M25X1-6g 0.100R
15	1.0000-0.1P-0.3L-TS	.104	.878	1.312	1.500	M28X1-6g 0.100R
17	1.1875-0.1P-0.3L-TS	.104	.878	1.438	1.625	M32X1-6g 0.100R
19	1.2500-0.1P-0.3L-TS	.135	.878	1.562	1.812	M35X1-6g 0.100R
21	1.3750-0.1P-0.3L-TS	.135	.878	1.688	1.938	M38X1-6g 0.100R
23	1.5000-0.1P-0.3L-TS	.135	.878	1.812	2.062	M41X1-6g 0.100R
25	1.6250-0.1P-0.3L-TS	.135	.878	2.000	2.188	M44X1-6g 0.100R

PCB JAM NUT RECEPTABLE (38)

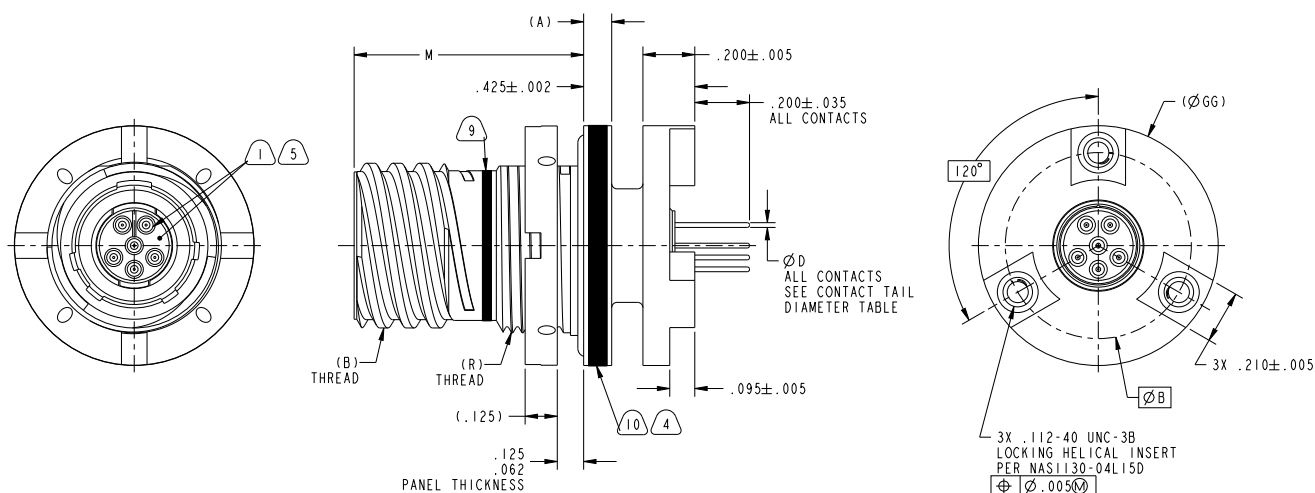
3 POST REDUCED FLANGE

ALUMINUM

TV38RW
TV38DT
TV38DW
TV38DZ
TV38RF
TV38RB
TV38DB
TV38DS

STAINLESS STEEL

TVS38RK
TVS38RKN
TVS38RS
TVS38RL
TVS38DSK
TVS38DSN



Shell Size	BB THREAD PER MIL-DTL-38999 CLASS 2A	A +.010 -.005	Ø B	Ø M ±.004	Ø GG MAX	RR Thread (Metric)
9	6250-0.1P-0.3L-TS	.104	.706	.871	.915	M17X1-6g 0.100R
11	7500-0.1P-0.3L-TS	.104	.833	.871	1.042	M20X1-6g 0.100R
13	8750-0.1P-0.3L-TS	.104	1.031	.878	1.240	M25X1-6g 0.100R
15	1.0000-0.1P-0.3L-TS	.104	1.148	.878	1.375	M28X1-6g 0.100R
17	1.1875-0.1P-0.3L-TS	.104	1.421	.878	1.630	M32X1-6g 0.100R
19	1.2500-0.1P-0.3L-TS	.135	1.607	.878	1.816	M35X1-6g 0.100R
21	1.3750-0.1P-0.3L-TS	.135	1.733	.878	1.942	M38X1-6g 0.100R
23	1.5000-0.1P-0.3L-TS	.135	1.858	.878	2.067	M41X1-6g 0.100R
25	1.6250-0.1P-0.3L-TS	.135	1.981	.878	2.190	M44X1-6g 0.100R

All dimensions for reference only.
Most common options are shown;
other options are available.

- † Red band indicates fully mated
- †† Blue band indicates rear release contact retention system
- ★ .059 dia. min. 3 lockwire holes. Formed lockwire hole design (6 holes) is optional. "D" shaped mounting hole dimensions

PCB JAM NUT RECEPTACLE (48)

REDUCED FLANGE, DOUBLE FLANGE

ALUMINUM

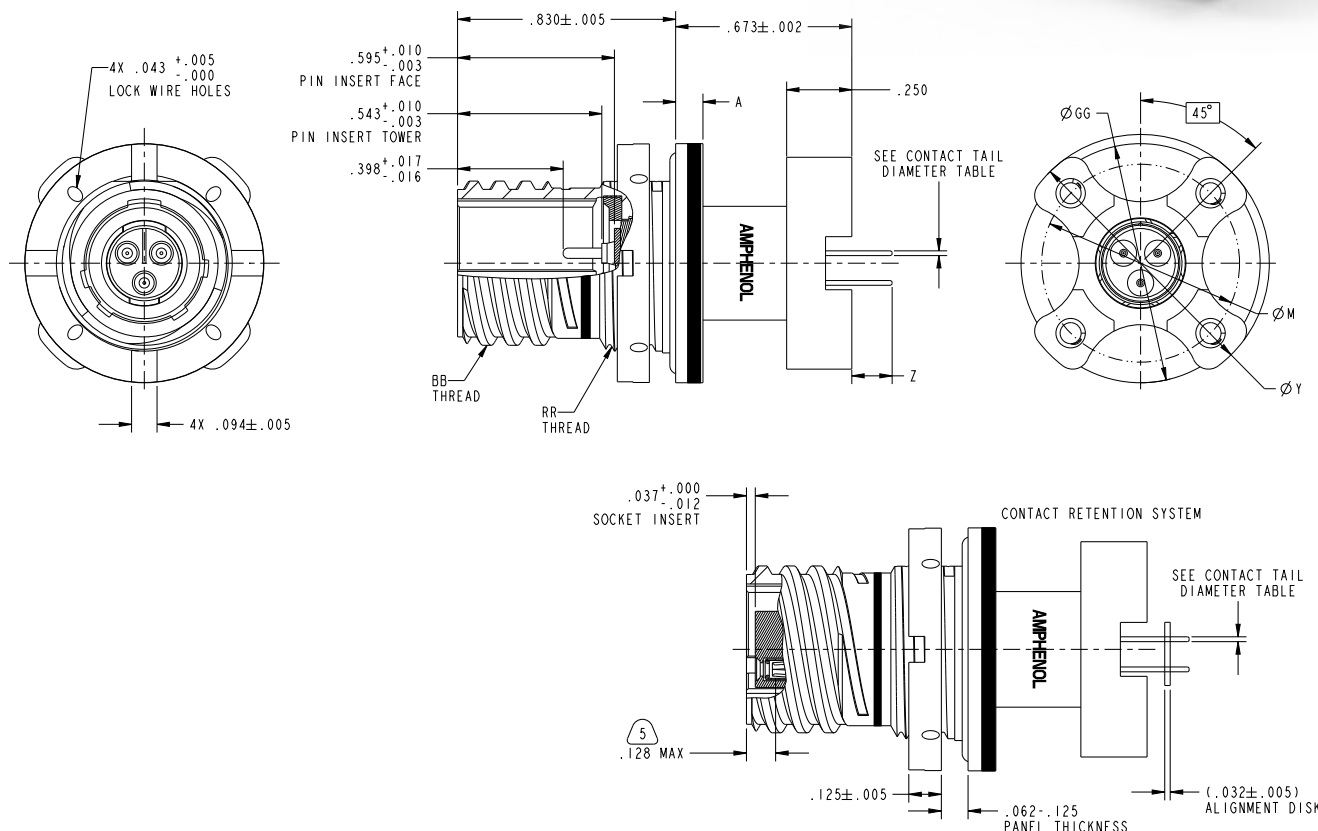
TV48RW TVS48RB
TV48DT TVS48DB
TV48DW TVS48DS
TV48DZ
TVS48RF

STAINLESS STEEL

TVS48RK
TVS48RKN
TVS48RS
TVS48RL
TVS48DSK
TVS48DSN

COMPOSITE

CTV48RW
CTV48DT
CTV48DZ
CTVS48RF



Shell Size	BB THREAD PER MIL-DTL-38999 CLASS 2A	A +.010 -.005	Ø M	Ø Y ±.005	Ø GG MAX	RR Thread (Metric)
9	6250-0.1P-0.3L-TS	.104	.753	.982	.915	M17X1-6g 0.100R
11	7500-0.1P-0.3L-TS	.104	.850	1.062	1.042	M20X1-6g 0.100R
13	8750-0.1P-0.3L-TS	.104	.994	1.250	1.240	M25X1-6g 0.100R
15	1.0000-0.1P-0.3L-TS	.104	1.119	1.375	1.375	M28X1-6g 0.100R
17	1.1875-0.1P-0.3L-TS	.104	1.237	1.500	1.630	M32X1-6g 0.100R
19	1.2500-0.1P-0.3L-TS	.135	1.379	1.625	1.816	M35X1-6g 0.100R
21	1.3750-0.1P-0.3L-TS	.135	1.489	1.750	1.942	M38X1-6g 0.100R
23	1.5000-0.1P-0.3L-TS	.135	1.644	1.875	2.067	M41X1-6g 0.100R
25	1.6250-0.1P-0.3L-TS	.135	1.744	2.000	2.190	M44X1-6g 0.100R

All dimensions for reference only.

† Red band indicates fully mated

†† Blue band indicates rear release contact retention system.

PCB JAM NUT RECEPTACLE (97, 98)

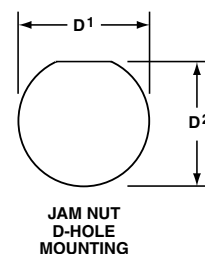
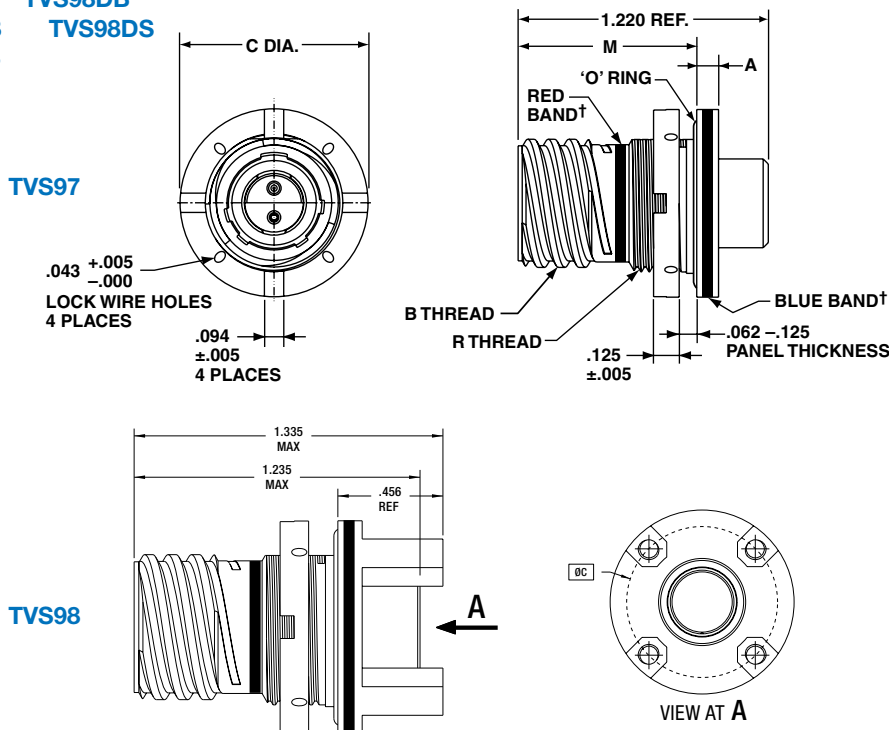
REDUCE FLANGE STANDOFFS (SPANNER NUT 98)

ALUMINUM

TV97DT TV98DT
TV97DW TV98DW
TV97DZ TV98DZ
TV97RW TV98RW
TVS97DB TVS98RB
TVS97RB TVS98RF
TVS97RF TVS98DB
TVS97DB TVS98DS
TVS97DS

STAINLESS STEEL

TVS97RK TVS98RK
TVS97RKN TVS98RKN
TVS97RS TVS98RS
TVS97RL TVS98RL
TVS97DSK TVS98DSK
TVS97DSN TVS98DSN



Shell Size	Footprint Reduction	Ø B Max	Ø GG Max	Ø C MAX
9	42%	.443	.915	.744
11	46%	.567	1.042	.862
13	37%	.680	1.240	1.020
15	36%	.811	1.357	1.141
17	21%	.936	1.630	1.385
19	21%	1.042	1.816	1.531
21	21%	1.167	1.942	1.656
23	21%	1.292	2.067	1.782
25	22%	1.417	2.190	1.910

*Reduced Flange connectors come with a spanner nut to replace with a hex nut add (730) mode code to end of part number

Shell Size	MS Shell Size Code	B Thread Class 2A 0.1P-0.3L-TS (Plated)	A +.010 - .005	C Dia. Max.	D1 +.010 - .000	D2 +.000 - .010	M	R Thread (Plated) 9-7543
9	A	.6250	.104	.915	.693	.657	.871	M17X1-6g
11	B	.7500	.104	1.042	.825	.770	.871	M20X1-6g
13	C	.8750	.104	1.240	1.010	.955	.878	M25X1-6g
15	D	1.0000	.104	1.357	1.135	1.085	.878	M28X1-6g
17	E	1.1875	.104	1.630	1.260	1.210	.878	M32X1-6g
19	F	1.2500	.135	1.816	1.385	1.335	.878	M35X1-6g
21	G	1.3750	.135	1.942	1.510	1.460	.878	M38X1-6g
23	H	1.5000	.135	2.067	1.635	1.585	.878	M41X1-6g
25	J	1.6250	.135	2.190	1.760	1.710	.878	M44X1-6g

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