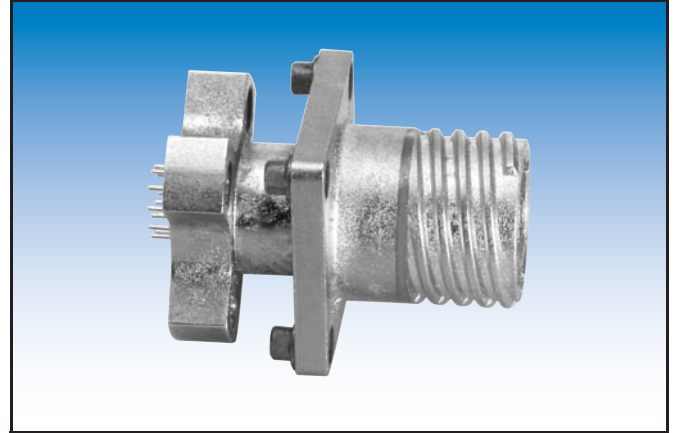


Amphenol® FCTV Series Composite Tri-Start™ Subminiature Cylindrical Filters

The Amphenol® FCTV Series is the Composite Tri-Start with filtering for EMI/EMP protection. It offers the same high performance as its metal counterpart, the FTV, but with a lightweight, corrosion resistance shell.

- Intermateable with MIL-DTL-38999 Series III connectors (See Catalog 12-092)
- Quick Mating - completely mates in a 360° turn of the coupling nut
- Lockwiring Eliminated - incorporates anti-decoupling device
- Contact Protection - 100% "scoop-proof"
- Improved Moisture Resistance - prevents electrolytic erosion of contacts
- Lightweight Composite shell - 17% – 70% weight savings over metal
- Corrosion Resistant - available in standard MIL-DTL-38999 olive drab cadmium (175°C) and electroless nickel plating (200°C), both withstanding 2000 hours of salt spray exposure. The base material is able to withstand an indefinite exposure to salt spray.
- Durability - 1500 couplings minimum (in reference to connector couplings, not contacts)



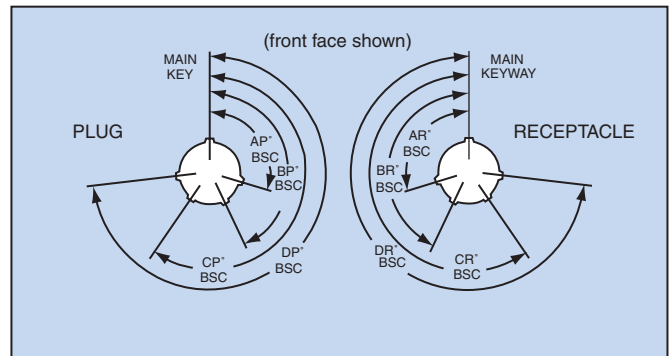
Composite FCTV Connector for PCB board mounting. Amphenol is currently the only supplier of one-piece composite PCB stand-off shells.

FCTV Master Key/Keyway Rotation

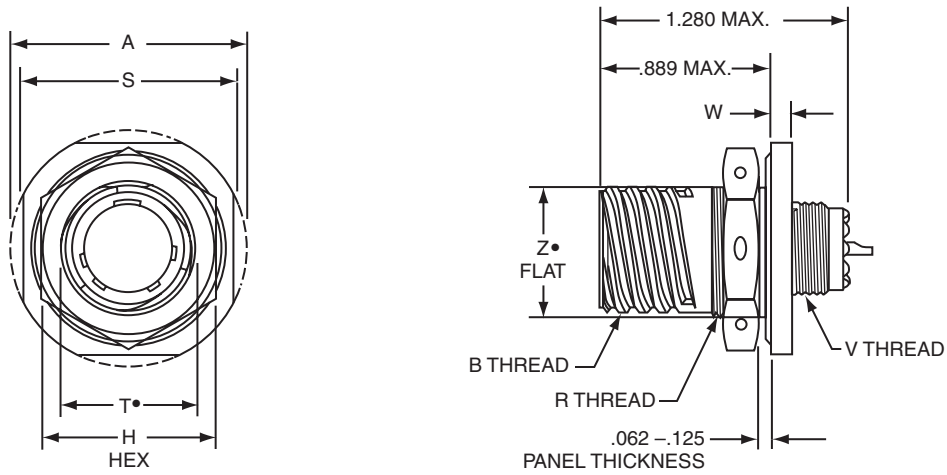
Shell Size	Key & Keyway arrangement identification letter	AR° or AP° BSC	BR° or BP° BSC	CR° or CP° BSC	DR° or DP° BSC
9	N	105	140	215	265
	A	102	132	248	320
	B	80	118	230	312
	C	35	140	205	275
	D	64	155	234	304
	E	91	131	197	240
11, 13, 15	N	95	141	208	236
	A	113	156	182	292
	B	90	145	195	252
	C	53	156	220	255
	D	119	146	176	298
	E	51	141	184	242
17 and 19	N	80	142	196	293
	A	135	170	200	310
	B	49	169	200	244
	C	66	140	200	257
	D	62	145	180	280
	E	79	153	197	272
21, 23, 25	N	80	142	196	293
	A	135	170	200	310
	B	49	169	200	244
	C	66	140	200	257
	D	62	145	180	280
	E	79	153	197	272

All angles are BSC

The insert arrangement does not rotate with main key/keyway.



jam nut receptacle



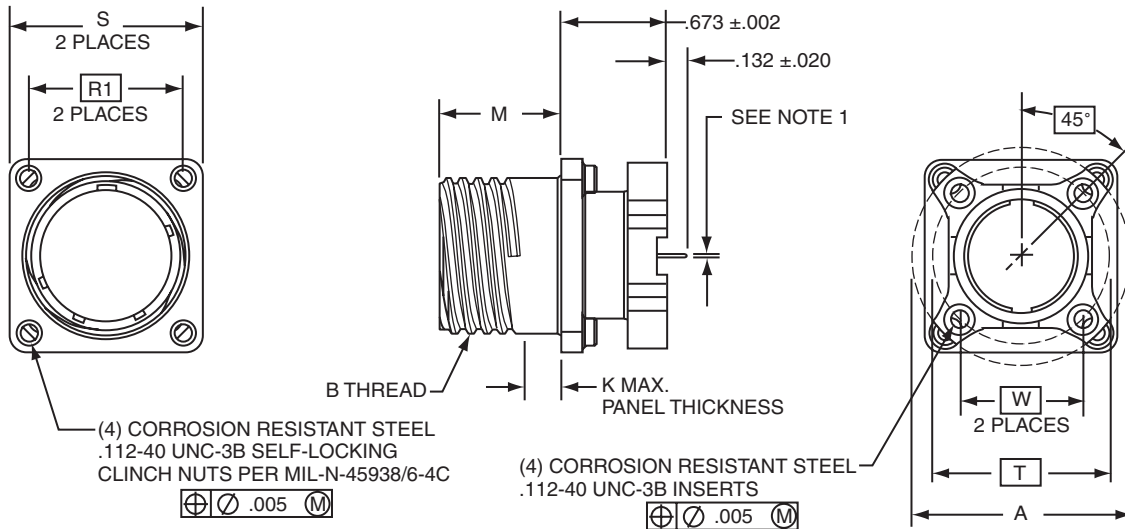
21-76X7XX-XXX

• D shaped mounting hole dimensions
For ordering information see how to order page 72.

Shell Size	A Dia. ±.010	B Thread Class 2A 0.1P-0.3L-TS (Plated)	H Hex +.017 -0.016	R Thread Metric (Plated)	S ±.015	T° +.010 -0.000	V Thread Metric (Plated)	W +.035 -0.004	Z° Flat +.000 -0.010
9	1.188	.6250	.875	M17X1-6g0.100R	1.062	.697	M12X1-6g0.100R	.086	.669
11	1.375	.7500	1.000	M20X1-6g0.100R	1.250	.822	M15X1-6g0.100R	.086	.769
13	1.500	.8750	1.188	M25X1-6g0.100R	1.375	1.007	M18X1-6g0.100R	.086	.955
15	1.625	1.0000	1.312	M28X1-6g0.100R	1.500	1.134	M22X1-6g0.100R	.086	1.084
17	1.750	1.1875	1.438	M32X1-6g0.100R	1.625	1.259	M25X1-6g0.100R	.086	1.208
19	1.937	1.2500	1.562	M35X1-6g0.100R	1.812	1.384	M28X1-6g0.100R	.118	1.333
21	2.062	1.3750	1.688	M38X1-6g0.100R	1.938	1.507	M31X1-6g0.100R	.118	1.459
23	2.188	1.5000	1.812	M41X1-6g0.100R	2.062	1.634	M34X1-6g0.100R	.118	1.575
25	2.312	1.6250	2.000	M44X1-6g0.100R	2.188	1.759	M37X1-6g0.100R	.118	1.709

All dimensions for reference only.

box mount receptacle (printed circuit board mount)



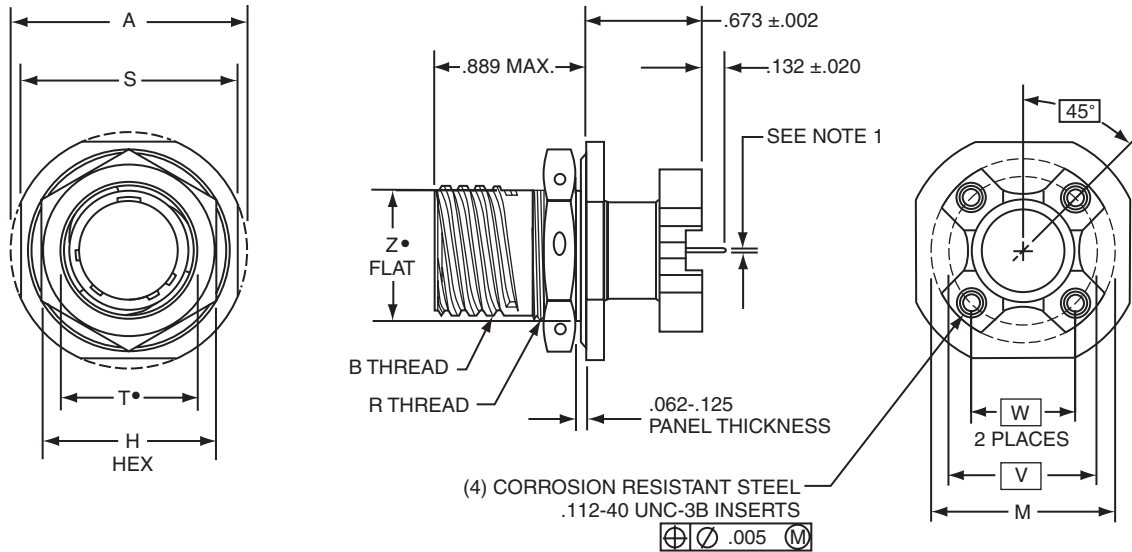
21-78X2XX-XXX

- Standard tail for size 22 is $.020 \pm .001$ dia.
Standard tail for size 20 is $.030 \pm .001$ dia.
For ordering information, see how to order page 72.

Shell Size	A Dia. $\pm .005$	B Thread Class 2A 0.1P-0.3L-TS (Plated)	M $\pm .003$	K Max. Panel Thickness	R ¹ TP	S $+.011$ $-.010$	PCB Mounting Dimensions	
							T Dia. TP	W TP
9	1.016	.6250	.770	.234	.719	.938	.752	.532
11	1.062	.7500	.770	.234	.812	1.031	.850	.601
13	1.250	.8750	.770	.234	.906	1.125	.994	.703
15	1.375	1.0000	.770	.234	.969	1.219	1.119	.791
17	1.500	1.1875	.770	.234	1.062	1.312	1.237	.875
19	1.625	1.2500	.770	.234	1.156	1.438	1.379	.975
21	1.750	1.3750	.739	.204	1.250	1.562	1.489	1.053
23	1.875	1.5000	.739	.204	1.375	1.688	1.619	1.145
25	2.000	1.6250	.739	.204	1.500	1.812	1.744	1.233

All dimensions for reference only.

jam nut receptacle (printed circuit board mount)



21-78X7XX-XXX

- Standard tail for size 22 is $.020 \pm .001$
Standard tail for size 20 is $.030 \pm .001$

- "D" shaped mounting hole dimensions

For ordering information see how to order page 72.

Shell Size	A Dia. ±.005	B Thread Class 2A 0.1P-0.3L-TS (Plated)	H Hex +.017 - .016	M Dia. ±.005	R Thread Metric (Plated)	S +.011 - .010	T Dia. +.010 - .000	PCB Mounting Dimensions		Z Flat +.000 - .010
								W TP	V Dia. TP	
9	1.188	.6250	.875	1.016	M17X1-6g0.100R	1.062	.697	.532	.752	.669
11	1.375	.7500	1.000	1.062	M20X1-6g0.100R	1.250	.822	.601	.850	.769
13	1.500	.8750	1.188	1.250	M25X1-6g0.100R	1.375	1.007	.703	.994	.955
15	1.625	1.0000	1.312	1.375	M28X1-6g0.100R	1.500	1.134	.791	1.119	1.084
17	1.750	1.1875	1.438	1.500	M32X1-6g0.100R	1.625	1.259	.875	1.237	1.208
19	1.937	1.2500	1.562	1.625	M35X1-6g0.100R	1.812	1.384	.975	1.379	1.333
21	2.062	1.3750	1.688	1.750	M38X1-6g0.100R	1.937	1.507	1.053	1.489	1.459
23	2.188	1.5000	1.812	1.875	M41X1-6g0.100R	2.062	1.634	1.145	1.619	1.575
25	2.312	1.6250	2.000	2.000	M44X1-6g0.100R	2.188	1.759	1.233	1.744	1.709

All dimensions for reference only.