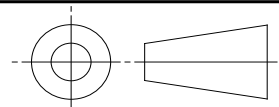


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REV. A	FEDERAL SUPPLY CLASS 5935	
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AS5590™/1	For more information on this standard, visit https://www.sae.org/standards/content/AS5590/1A/ THIRD ANGLE PROJECTION 	
CUSTODIAN: AE-8/AE-8C1		
	AEROSPACE STANDARD CONNECTOR, FIBER OPTIC, CIRCULAR, ENVIRONMENT RESISTANT, REMOVEABLE TERMINI	AS5590™/1 REV. A

ISSUED 2005-09 STABILIZED 2020-11

THE REQUIREMENTS FOR ACQUIRING THE CONNECTOR DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF AS5590.

	AEROSPACE STANDARD	AS5590™/1 SHEET 1 OF 23	REV. A
	CONNECTOR, FIBER OPTIC, CIRCULAR, ENVIRONMENT RESISTANT, REMOVEABLE TERMINI		

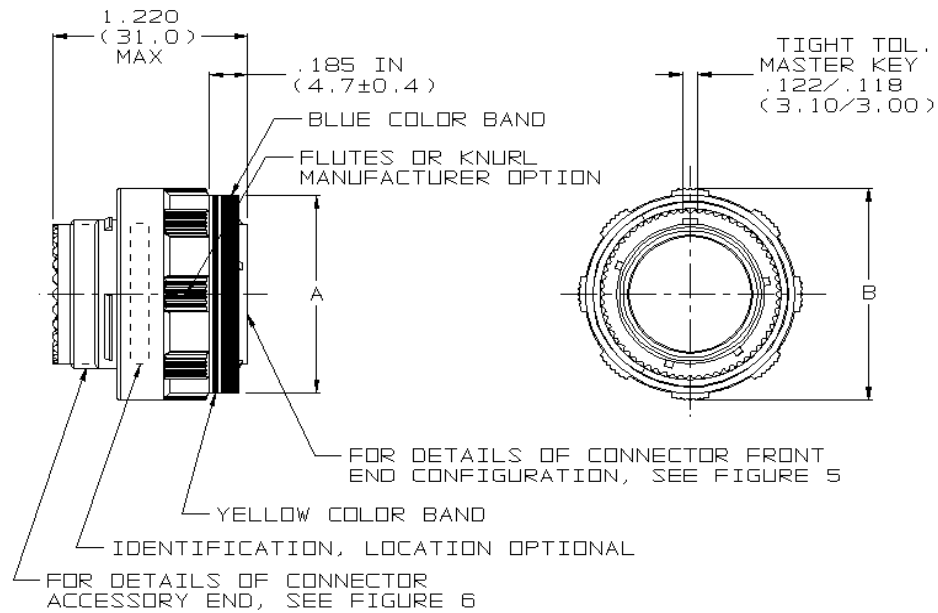


TABLE 1 - PLUG DIMENSIONS

SHELL SIZE	A DIA +.008 -.000 (+.20) (-.00)	B DIA MAX
09	.724 (18.4)	.858 (21.8)
11	.831 (21.1)	.984 (25.0)
13	1.000 (25.4)	1.157 (29.4)
15	1.130 (28.7)	1.280 (32.5)
17	1.268 (32.2)	1.406 (35.7)
19	1.374 (34.9)	1.516 (38.5)
21	1.500 (38.1)	1.642 (41.7)
23	1.618 (41.1)	1.768 (44.9)
25	1.744 (44.3)	1.890 (48.0)

FIGURE 1 - PLUG SHELL - STYLE 06

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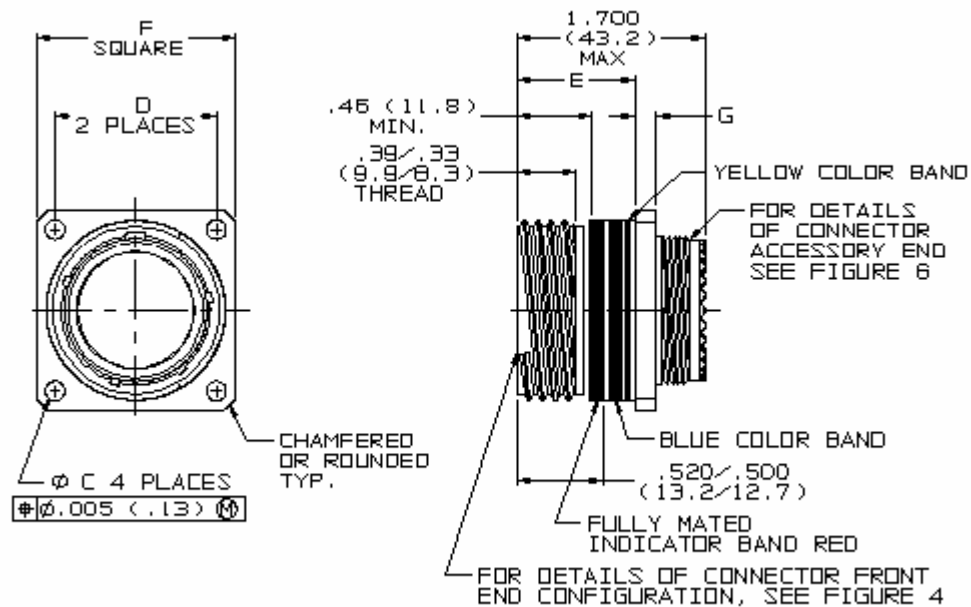


TABLE 2 - WALL MTG RECEPTACLE DIMENSIONS

SHELL SIZE	C DIA	D BSC	E	F SQUARE	G
09	.136 (3.5) .120 (3.0)	.717 (18.2)	.823 (20.9) .768 (19.5)	.949 (24.1) .925 (23.5)	.144 (3.7) .083 (2.1)
11	.136 (3.5) .120 (3.0)	.812 (20.6)	.823 (20.9) .768 (19.5)	1.043 (26.5) 1.019 (25.9)	.144 (3.7) .083 (2.1)
13	.136 (3.5) .120 (3.0)	.906 (23.0)	.823 (20.9) .768 (19.5)	1.138 (28.9) 1.114 (28.3)	.144 (3.7) .083 (2.1)
15	.136 (3.5) .120 (3.0)	.969 (24.6)	.823 (20.9) .768 (19.5)	1.232 (31.3) 1.208 (30.7)	.144 (3.7) .083 (2.1)
17	.136 (3.5) .120 (3.0)	1.062 (27.0)	.823 (20.9) .768 (19.5)	1.333 (33.6) 1.299 (33.0)	.144 (3.7) .083 (2.1)
19	.136 (3.5) .120 (3.0)	1.156 (29.4)	.823 (20.9) .768 (19.5)	1.449 (36.8) 1.425 (36.2)	.144 (3.7) .083 (2.1)
21	.136 (3.5) .120 (3.0)	1.250 (31.8)	.823 (20.9) .768 (19.5)	1.575 (40.0) 1.551 (39.4)	.171 (4.3) .083 (2.1)
23	.162 (4.1) .146 (3.7)	1.375 (34.9)	.791 (20.0) .736 (18.7)	1.701 (43.2) 1.677 (42.6)	.171 (4.3) .083 (2.1)
25	.162 (4.1) .146 (3.7)	1.500 (38.1)	.791 (20.0) .736 (18.7)	1.823 (46.3) 1.799 (45.7)	.171 (4.3) .083 (2.1)

FIGURE 2 - RECEPTACLE, WALL MOUNTING - STYLE 07

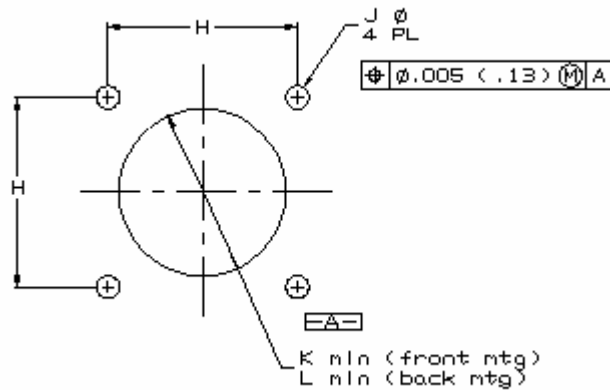


TABLE 3 - WALL MOUNTING DIMENSIONS/PANEL CUTOUT

SHELL SIZE	H BSC	J Ø HOLES	K MIN FRONT MTG	L MIN BACK MTG
09	.717 (18.2)	.133 (3.4) .123 (3.1)	.500 (12.7)	.656 (16.7)
11	.812 (20.6)	.133 (3.4) .123 (3.1)	.625 (15.8)	.781 (19.8)
13	.906 (23.0)	.133 (3.4) .123 (3.1)	.750 (19.0)	.906 (23.0)
15	.969 (24.6)	.133 (3.4) .123 (3.1)	.906 (23.0)	1.031 (26.2)
17	1.062 (27.0)	.133 (3.4) .123 (3.1)	1.016 (25.8)	1.219 (30.2)
19	1.156 (29.4)	.133 (3.4) .123 (3.1)	1.141 (28.9)	1.281 (32.5)
21	1.250 (31.8)	.133 (3.4) .123 (3.1)	1.250 (31.8)	1.406 (35.7)
23	1.375 (34.9)	.155 (3.9) .145 (3.7)	1.375 (34.9)	1.531 (38.9)
25	1.500 (38.1)	.159 (4.0) .149 (3.8)	1.500 (38.1)	1.656 (42.1)

FIGURE 2 - RECEPTACLE, WALL MOUNTING - STYLE 07 - CONTINUED

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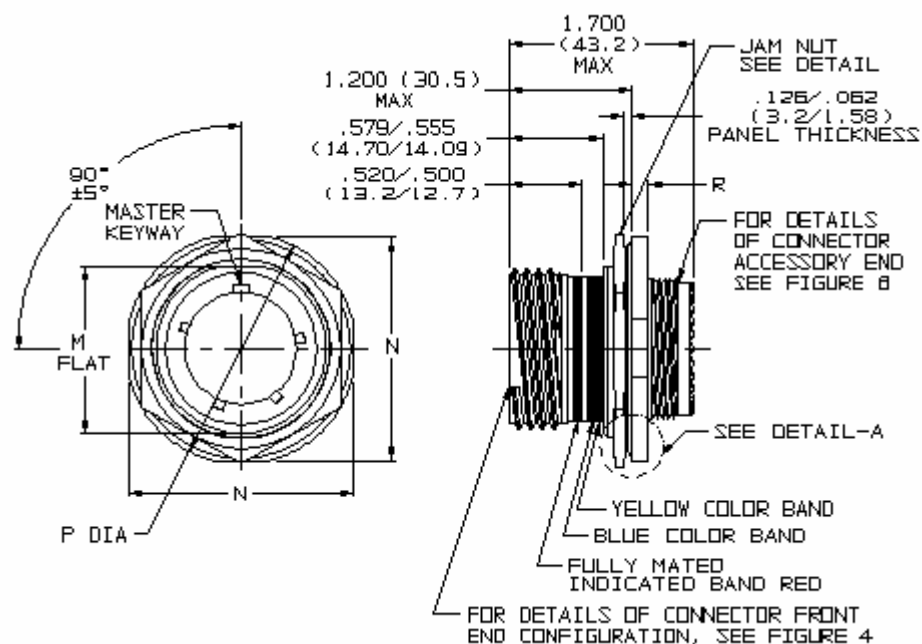


TABLE 4 - JAM NUT RECEPTACLE

SHELL SIZE	M FLAT	N	P DIA	R
09	.655 (16.6)	1.079 (27.4)	1.200 (30.5)	.114 (2.9)
	.645 (16.4)	1.047 (26.6)	1.177 (29.9)	.083 (2.1)
11	.755 (19.2)	1.268 (32.2)	1.386 (35.2)	.114 (2.9)
	.745 (18.9)	1.236 (31.4)	1.362 (34.6)	.083 (2.1)
13	.942 (23.9)	1.390 (35.3)	1.512 (38.4)	.114 (2.9)
	.932 (23.7)	1.358 (34.5)	1.488 (37.8)	.083 (2.1)
15	1.066 (27.1)	1.516 (38.5)	1.638 (41.6)	.114 (2.9)
	1.056 (26.8)	1.485 (37.7)	1.614 (41.0)	.083 (2.1)
17	1.191 (30.3)	1.642 (41.7)	1.764 (44.8)	.114 (2.9)
	1.181 (30.0)	1.610 (40.9)	1.740 (44.2)	.083 (2.1)
19	1.316 (33.4)	1.827 (46.4)	1.949 (49.5)	.145 (3.7)
	1.306 (33.2)	1.795 (45.6)	1.925 (48.9)	.114 (2.9)
21	1.441 (36.6)	1.953 (49.6)	2.075 (52.7)	.145 (3.7)
	1.431 (36.3)	1.921 (48.8)	2.051 (52.1)	.114 (2.9)
23	1.566 (39.7)	2.079 (52.8)	2.201 (55.9)	.145 (3.7)
	1.556 (39.5)	2.047 (52.0)	2.177 (55.3)	.114 (2.9)
25	1.691 (42.9)	2.205 (56.0)	2.323 (59.0)	.145 (3.7)
	1.681 (42.7)	2.173 (54.0)	2.299 (58.4)	.114 (2.9)

FIGURE 3 - JAM NUT RECEPTACLE - STYLE 08

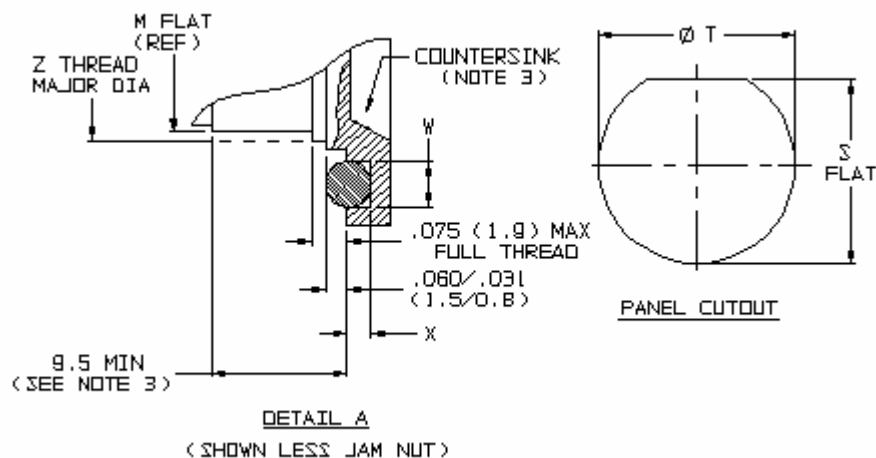


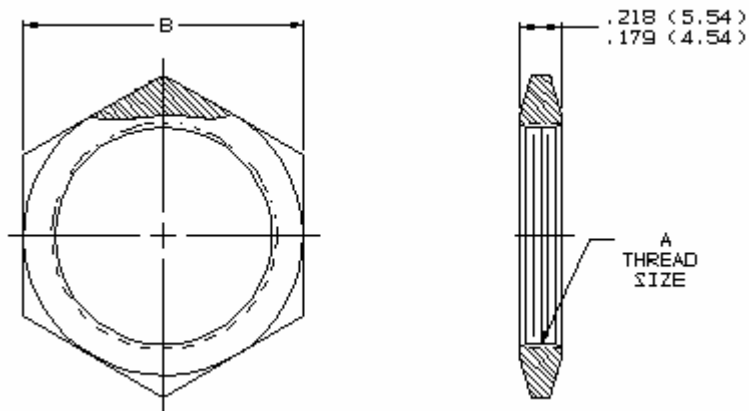
TABLE 5 - JAM NUT RECEPTACLE

SHELL SIZE	S FLAT	T DIA	W	X	Z THREAD	O-RING (SEE NOTE 2)
09	.680 (17.3) .670 (17.0)	.700 (17.8) .690 (17.5)	.099 (2.52) .093 (2.36)	.050 (1.27) .040 (1.01)	M17 X 1-6g	2-019
11	.771 (19.6) .761 (19.3)	.835 (21.2) .825 (21.0)	.099 (2.52) .093 (2.36)	.050 (1.27) .040 (1.01)	M20 X 1-6g	2-022
13	.955 (24.3) .945 (24.0)	1.020 (25.9) 1.010 (25.7)	.099 (2.52) .093 (2.36)	.050 (1.27) .040 (1.01)	M25 X 1-6g	2-024
15	1.085 (27.6) 1.075 (27.3)	1.145 (29.1) 1.135 (28.8)	.099 (2.52) .093 (2.36)	.050 (1.27) .040 (1.01)	M28 X 1-6g	2-026
17	1.210 (30.7) 1.200 (30.5)	1.270 (32.3) 1.260 (32.0)	.099 (2.52) .093 (2.36)	.050 (1.27) .040 (1.01)	M32 X 1-6g 1/	2-028
19	1.335 (33.9) 1.325 (33.7)	1.395 (35.4) 1.385 (35.2)	.146 (3.71) .140 (3.55)	.080 (2.04) .070 (1.78)	M35 X 1-6g	2-128
21	1.460 (37.1) 1.450 (36.8)	1.520 (38.6) 1.510 (38.4)	.146 (3.71) .140 (3.55)	.080 (2.04) .070 (1.78)	M38 X 1-6g	2-130
23	1.585 (40.3) 1.575 (40.0)	1.645 (41.8) 1.635 (41.5)	.146 (3.71) .140 (3.55)	.080 (2.04) .070 (1.78)	M41 X 1-6g	2-132
25	1.710 (43.4) 1.700 (43.2)	1.770 (45.0) 1.760 (44.7)	.146 (3.71) .140 (3.55)	.080 (2.04) .070 (1.78)	M44 X 1-6g	2-134

FIGURE 3 - JAM NUT RECEPTACLE - STYLE 08 - CONTINUED

NOTES:

- 1/ MODIFIED MAJOR DIAMETER 31.95/31.80.
2. O-RING MATERIAL; AS3582 OR AMS3325.
3. COUNTERSINK MAY BE INCORPORATED TO ACCEPT ACCESSORY CONFIGURATION IAW AS85049.



JAM NUT DETAIL

TABLE 6- JAM NUT RECEPTACLE

SHELL SIZE	A THREAD	B
09	M17 X 1-6H	.875 (22.23) .859 (21.82)
11	M20 X 1-6H	1.000 (25.40) .984 (24.99)
13	M25 X 1-6H	1.188 (30.17) 1.172 (29.76)
15	M28 X 1-6H	1.375 (34.92) 1.359 (34.52)
17	M32 X 1-6H	1.438 (36.52) 1.422 (36.12)
19	M35 X 1-6H	1.562 (39.67) 1.546 (39.27)
21	M38 X 1-6H	1.750 (44.45) 1.734 (44.04)
23	M41 X 1-6H	1.875 (47.63) 1.859 (47.22)
25	M44 X 1-6H	2.000 (50.80) 1.984 (50.39)

FIGURE 3 - JAM NUT RECEPTACLE - STYLE 08 - CONTINUED

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