

AC THREADED SERIES

AC C L 06 AF 18-1 S X (025)

REVISIONS			
LTR	DESCRIPTION	DATE	APPVD
G	(CL11) SEE CHANGE NOTICE ECN:C3955	9/1/16	Prescott

1 SERIES	
AC	AMPHENOL INDUSTRIAL CONNECTORS
2 CONTACT STYLE	
C	CRIMP CONTACTS
S	SOLDER CONTACTS
3 MODIFIER	
L	LOW SMOKE ZERO HALOGEN INSERTS AND GROMMETS
4 SHELL STYLE	
00	WALL MOUNT RECEPTACLE
01	IN LINE RECEPTACLE
02	BOX MOUNT RECEPTACLE
04	01 LESS BACK HARDWARE
05	06 LESS BACK HARDWARE
06	STRAIGHT PLUG
08	90° ANGLE PLUG

5 CLASS	
A	GENERAL DUTY
E	ENVIRONMENTAL / WIRE BUNDLE
F	ENVIRONMENTAL / WIRE BUNDLE
R	ENVIRONMENTAL WITH GT R CLASS ADAPTER COMPRESSION SLEEVE AND GROMMET.
AD	GENERAL DUTY
AF	GENERAL DUTY
CF	ADAPTER, JACKETED CABLE CLAMP, ENVIRONMENTAL
LCFZ	LONG ADAPTER, INDIVIDUAL WIRE SEALING GROMMET, JACKETED CABLE CLAMP, ENVIRONMENTAL
PG	ENVIRONMENTAL / JACKETED CABLE
SB	ADAPTER, BACKSHELL FOR SHIELD BRAID & HEAT SHRINK/BOOT, INDIV WIRE GROMMET, ENVIRONMENTAL

6	
SHELL SIZE & ARRANGEMENT	
SEE L-11908/48-()	
7	
CONTACT GENDER	
P	PIN CONTACT
S	SOCKET CONTACT
R	RADSOK SOCKET
8	
ALTERNATE ROTATIONS	
W	SEE DRAWING 10-74800/899
X	
Y	
Z	
9	
VARIATIONS	
(003)	OLIVE DRAB CADMIUM PLATE
(023)	ELECTROLESS NICKEL PLATE
(024)	GREEN ZINC ALLOY PLATE
(025)	BLACK ZINC ALLOY PLATE
(B30)	GOLD PLATED CONTACTS
(G96)	BLACK ANODIZE HARD COAT
(L/C)	LESS CONTACTS

TABLE OF CONTENTS	
SHELL STYLE	PAGES
AC()00	2-4
AC()01	5-7
AC()02	8-9
AC()04)	10-11
AC()06	12-15
AC()08	16-18
NOTES	19
AN, MS DETAILS	20

SEE SHEET 19

NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED.
HOWEVER, DOCUMENTS REFERENCED HEREON
MAY CONTAIN LIMITED RIGHTS DATA.

N/A

N/A

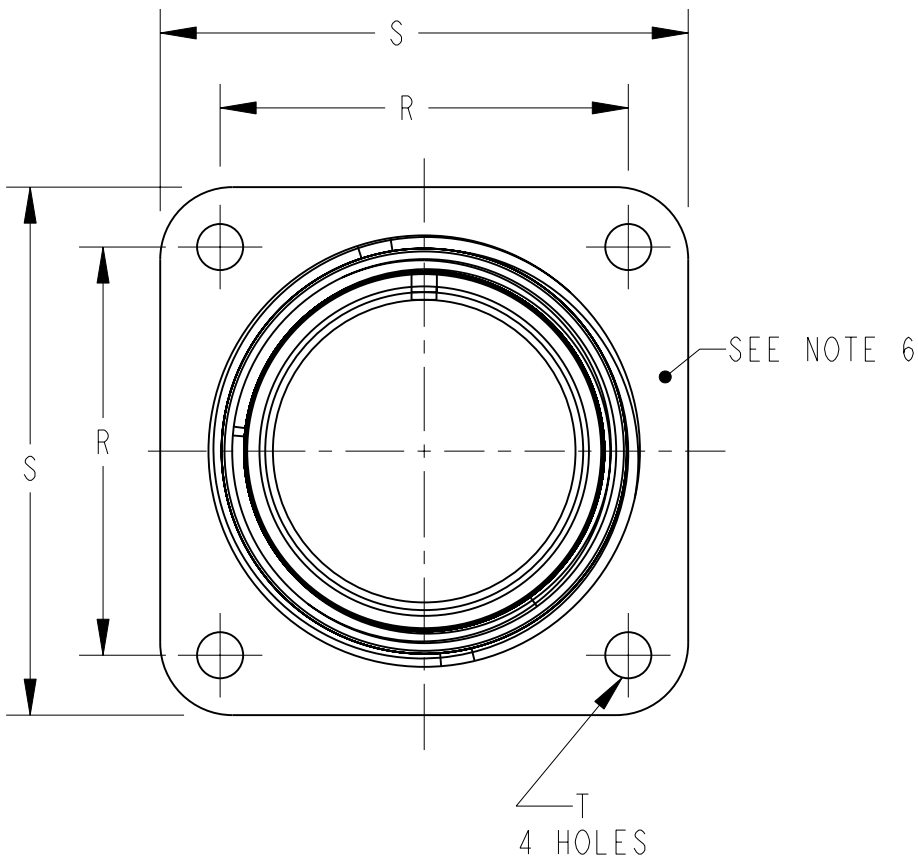
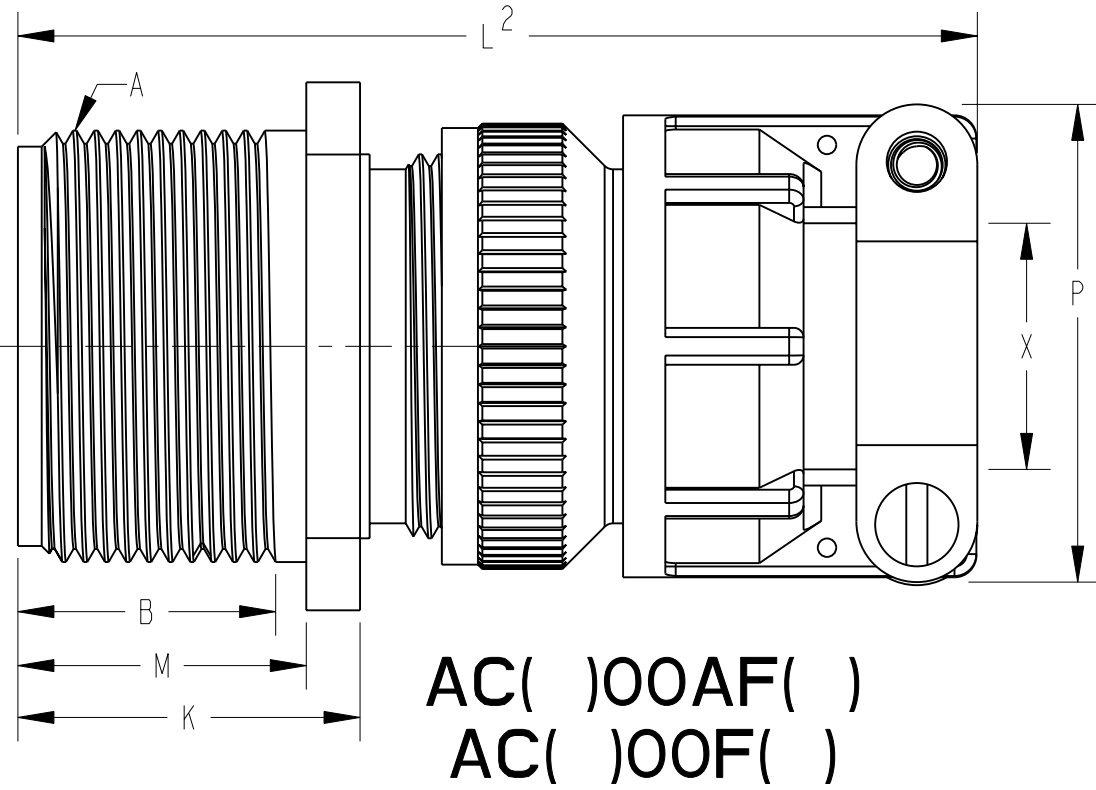
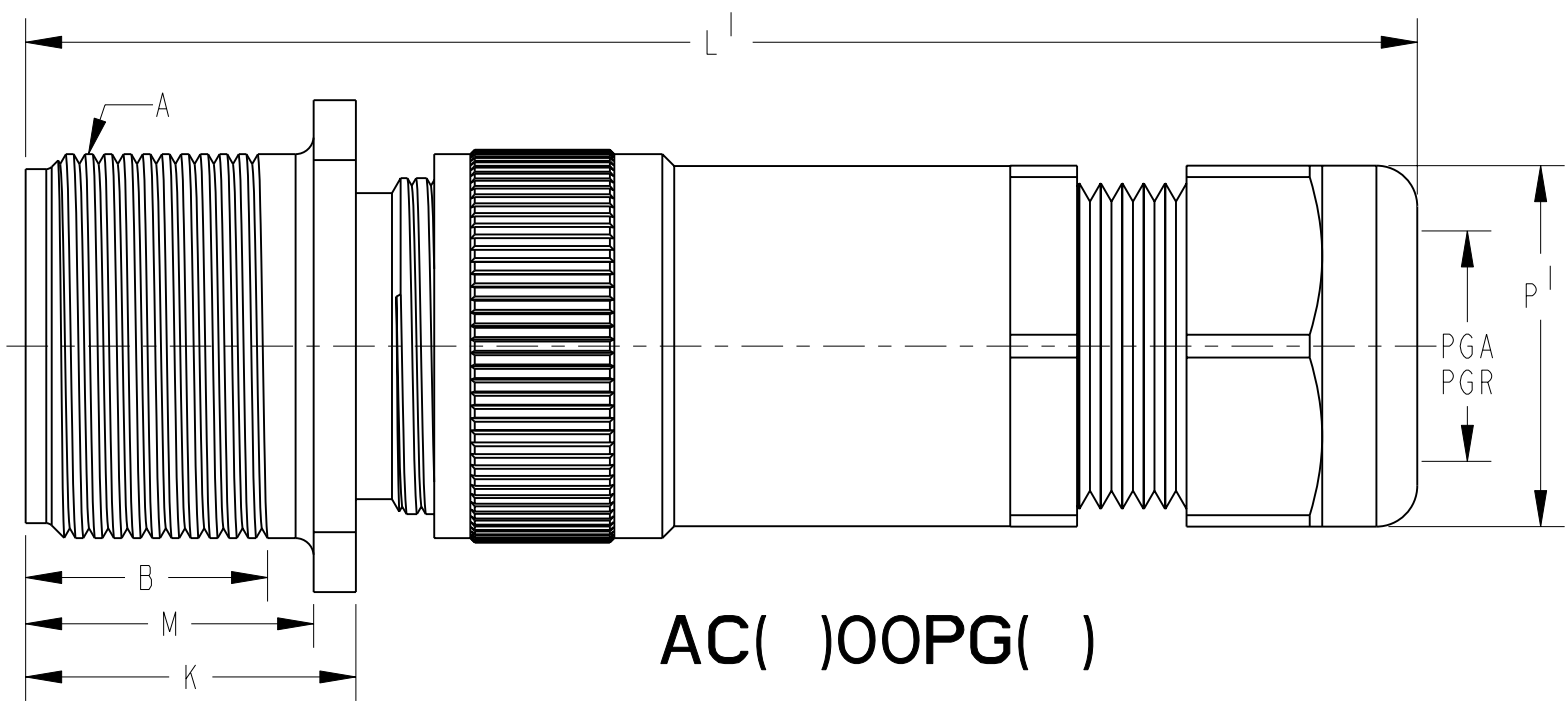
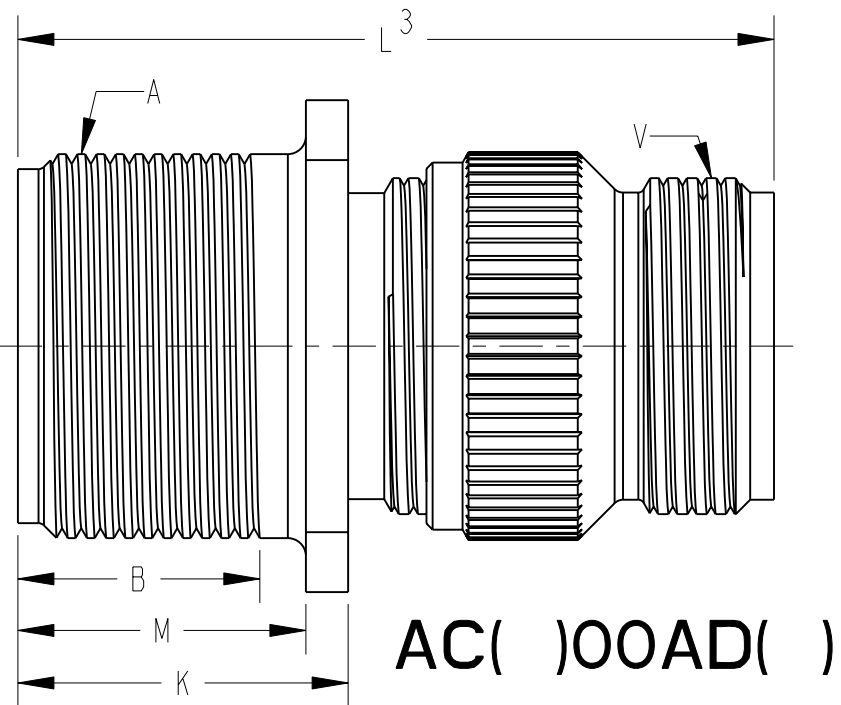
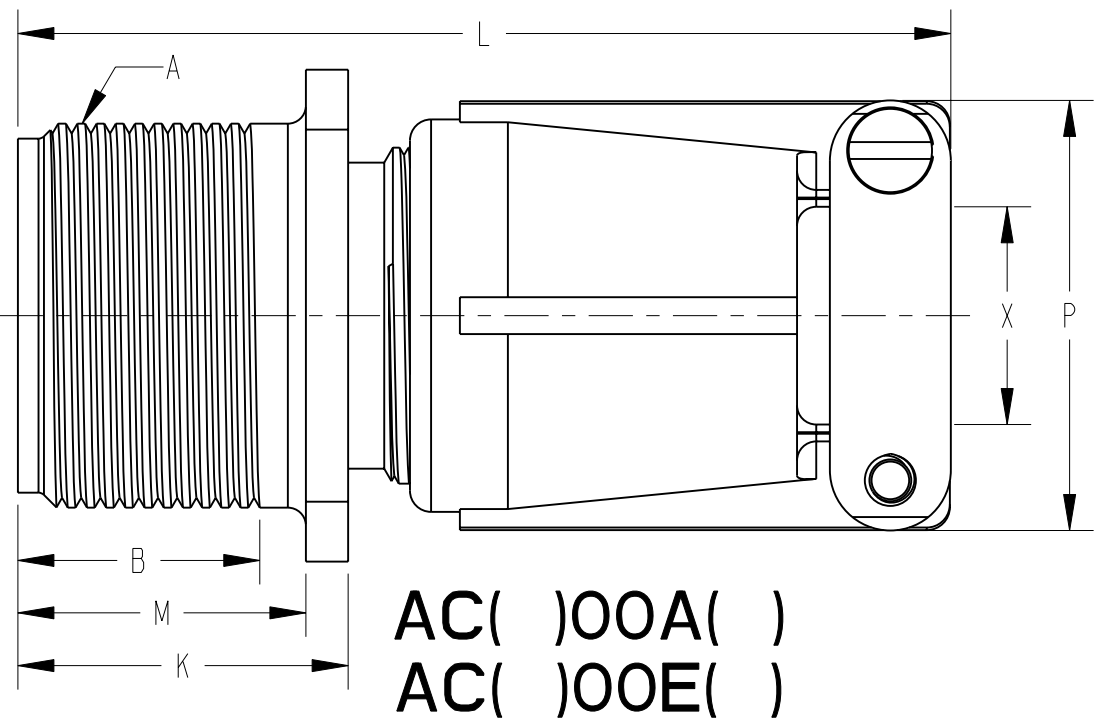
NEXT ASSEMBLY

UNLESS OTHERWISE SPECIFIED	SPECIFICATIONS	POS	QTY	PART NUMBER	DESCRIPTION	NOTE	
		PARTS LIST					
		AMPHENOL CORPORATION SIDNEY, N.Y. 13838					
LINEAR DIMENSIONS ARE IN INCHES TOLERANCES: .XXXX = ±.0005 .XXX = ±.010 .XX = ±.03 .X = ±.1 ANGLES = ±2° OTHER STANDARDS PER 9-3800 AND DOD-D-1000 THIRD ANGLE PROJECTION	MATERIAL SPEC.	APPROVALS		DATE	AC THREADED SERIES U		
	N/A	PREPARED	OLESIK	24-Jun-97			
		CHECKED	DEMATTEO	12/22/97			
		MATERIAL					
	PROCESS SPEC.	APPROVED	OLESIK	12/23/97	SIZE C		
		APPROVED	GALLUSSER	12/23/97			FSCM NO. 77820
	SEE NOTES 6 AND 7, 9-9306	PRO/ENG INFORMATION					
		ACSERIESPG1			REV. G		
				SCALE: NONE			REF: N/A
					SHEET 1 OF 20		

FAMCODES|DATA3:ACX TNS|CICS: 1495|

TAB.

AC()00()



SEE SHEET 19.

NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED.
HOWEVER, DOCUMENTS REFERENCED HEREON
MAY CONTAIN LIMITED RIGHTS DATA.

SIZE	FSCM NO.	DOCUMENT NO.	REV.
C	77820	AC SERIES	G
SCALE:NONE	REF:	N/A	SHEET 2 OF 20

AC()00()

SHELL SIZE	A THREAD CLASS 2A	B MIN. FULL THREAD	K +.020 -.010	L MAX	L ¹ MAX	L ² MAX	L ³ MAX	M +.010 -.000	P MAX	P ¹ HEX FLATS REF	PGA REF	PGR REF	R ±.005	S ±.010	T DIA +.004 -.002	V THREAD CLASS 2A	X MAX O.D. CABLE
10SL	.6250-24 UNEF	.391	.672	2.129	3.010	2.189	1.468	.562	.894	.750	.150/.320	.070/.240	.719	1.000	.120	.6250-24 UNEF	.312
12S	.7500-20 UNEF	.450	.672	2.129	3.010	2.261	1.468	.562	.894	.750	.150/.320	.070/.240	.812	1.094	.120	.6250-24 UNEF	.312
12	.7500-20 UNEF	.625	.860	2.524	3.500	2.644	1.468	.750	.894	.750	.150/.320	.070/.240	.812	1.094	.120	.6250-24 UNEF	.312
14S	.8750-20 UNEF	.450	.672	2.201	3.188	2.261	1.468	.562	1.083	.880	.190/.390	.110/.280	.906	1.188	.120	.7500-20 UNEF	.438
14	.8750-20 UNEF	.625	.860	2.524	3.641	2.644	1.468	.750	1.083	.880	.190/.390	.110/.280	.906	1.188	.120	.7500-20 UNEF	.438
16S	1.0000-20 UNEF	.450	.672	2.201	3.265	2.266	1.468	.562	1.181	.940	.230/.470	.190/.350	.969	1.281	.120	.8750-20 UNEF	.531
16	1.0000-20 UNEF	.625	.860	2.524	3.718	2.644	1.468	.750	1.181	.940	.230/.470	.190/.350	.969	1.281	.120	.8750-20 UNEF	.531
18	1.1250-18 UNEF	.625	.891	2.596	3.718	2.716	1.938	.750	1.300	.940	.230/.470	.190/.350	1.063	1.375	.120	1.0000-20 UNEF	.625
20	1.2500-18 UNEF	.625	.891	2.654	3.798	2.774	1.844	.750	1.487	1.060	.390/.560	.270/.470	1.156	1.500	.120	1.1875-18 UNEF	.750
22	1.3750-18 UNEF	.625	.891	2.654	4.080	2.916	1.938	.750	1.487	1.060	.390/.560	.270/.470	1.250	1.625	.120	1.1875-18 UNEF	.750
24	1.5000-18 UNEF	.625	.953	2.885	4.142	3.051	1.970	.812	1.712	1.060	.390/.560	.270/.470	1.375	1.750	.147	1.4375-18 UNEF	.938
28	1.7500-18 UNS	.625	.953	2.885	4.291	3.140	2.189	.812	1.712	1.300	.510/.710	.350/.630	1.562	2.000	.147	1.4375-18 UNEF	.938
32	2.0000-18 UNS	.625	1.031	2.943	4.643	3.184	2.261	.875	2.063	1.650	.700/.980	.510/.790	1.750	2.250	.173	1.7500-18 UNS	1.250
36	2.2500-16 UN	.625	1.031	2.943	4.643	3.245	2.219	.875	2.283	1.650	.700/.980	.510/.790	1.938	2.500	.173	2.0000-18 UNS	1.375
40	2.5000-16 UN	.625	1.031	3.068	5.635	3.670	2.188	.875	2.688	1.650	.700/.980	.510/.790	2.188	2.750	.173	2.2500-16 UN	1.625

SEE SHEET 19.

NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED.
HOWEVER, DOCUMENTS REFERENCED HEREON
MAY CONTAIN LIMITED RIGHTS DATA.

SIZE C	FSCM NO. 77820	DOCUMENT NO. AC SERIES	REV. G
SCALE:NONE	REF:	N/A	SHEET 3 OF 20

A

E

AD

AF

F

PG

SEE SHEET 19.

NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED.
HOWEVER, DOCUMENTS REFERENCED HEREON
MAY CONTAIN LIMITED RIGHTS DATA.

AC()00()

SIZE C	FSCM NO. 77820	DOCUMENT NO. AC SERIES	REV. G
SCALE: 1:3	REF: N/A	SHEET 4 of 20	

D

C

SH

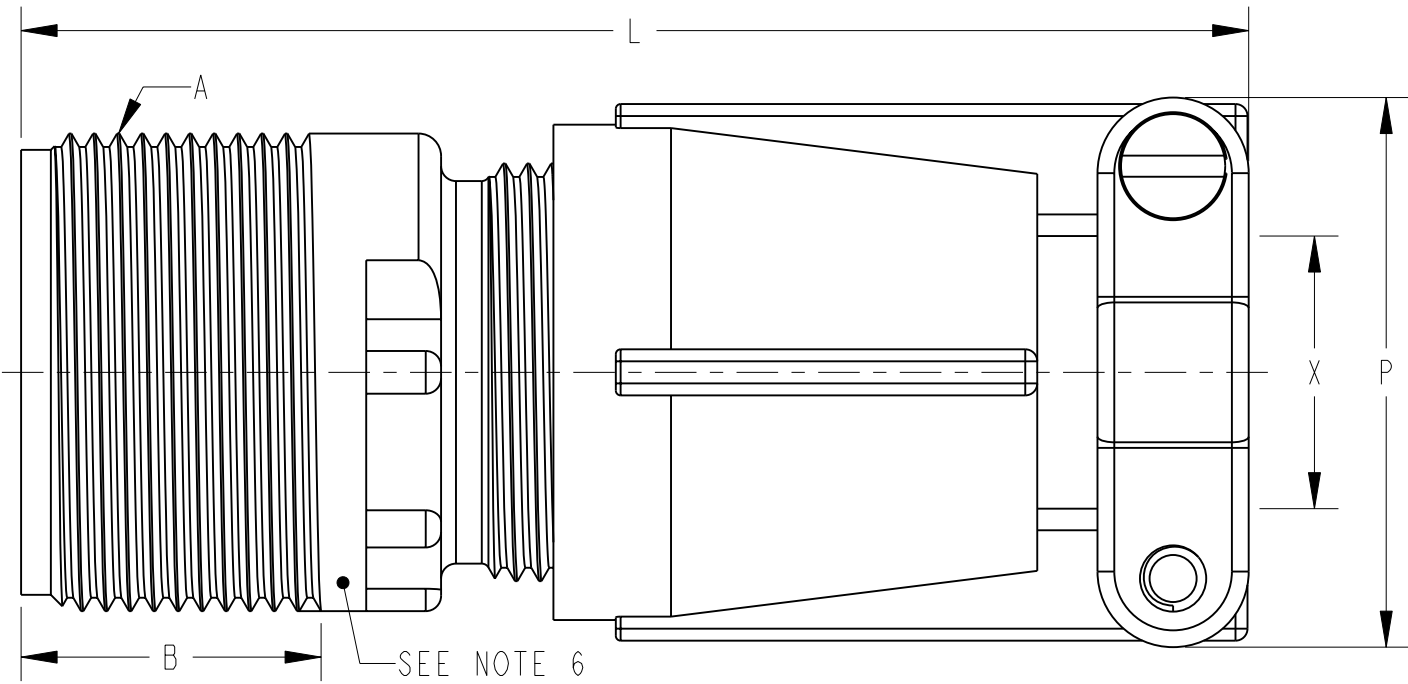
OF

AC SERIES

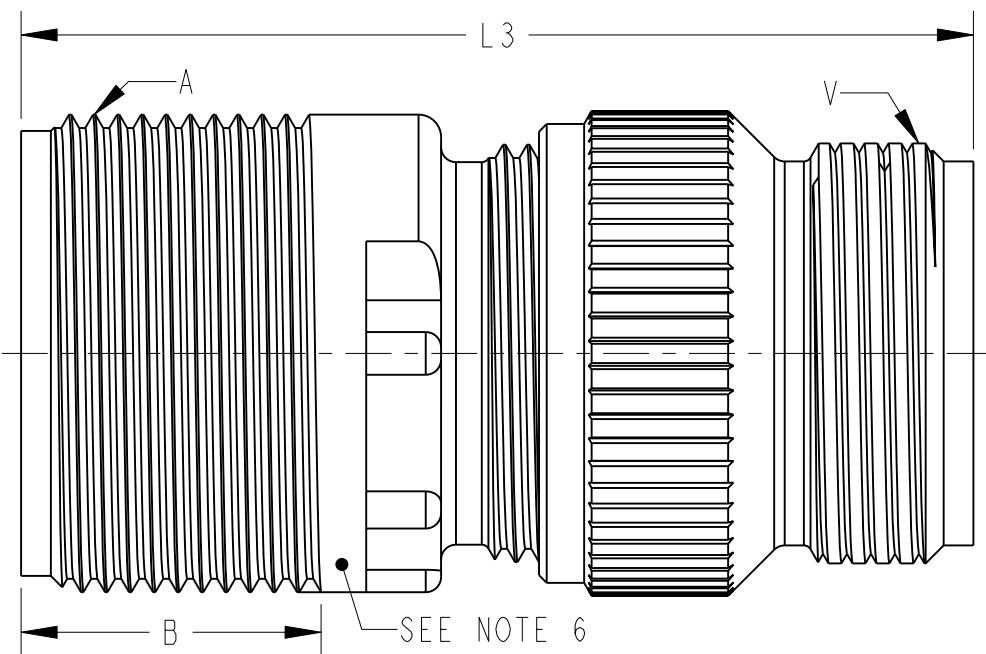
DOC NO

A

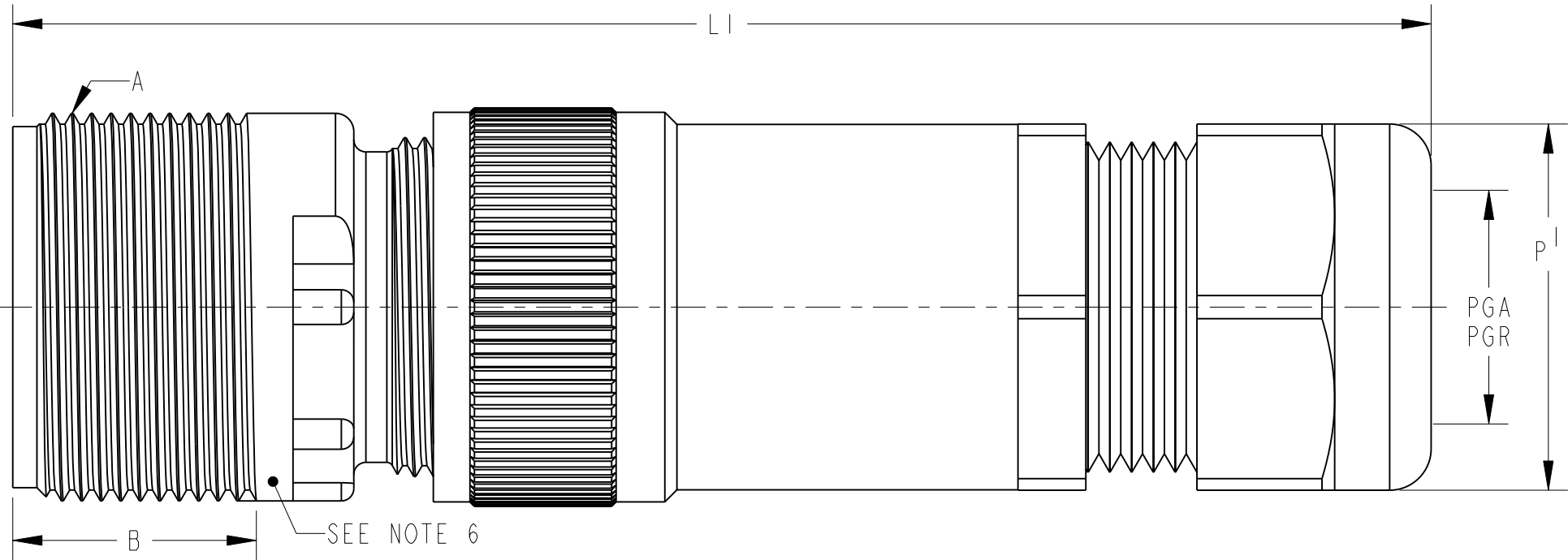
AC()01()



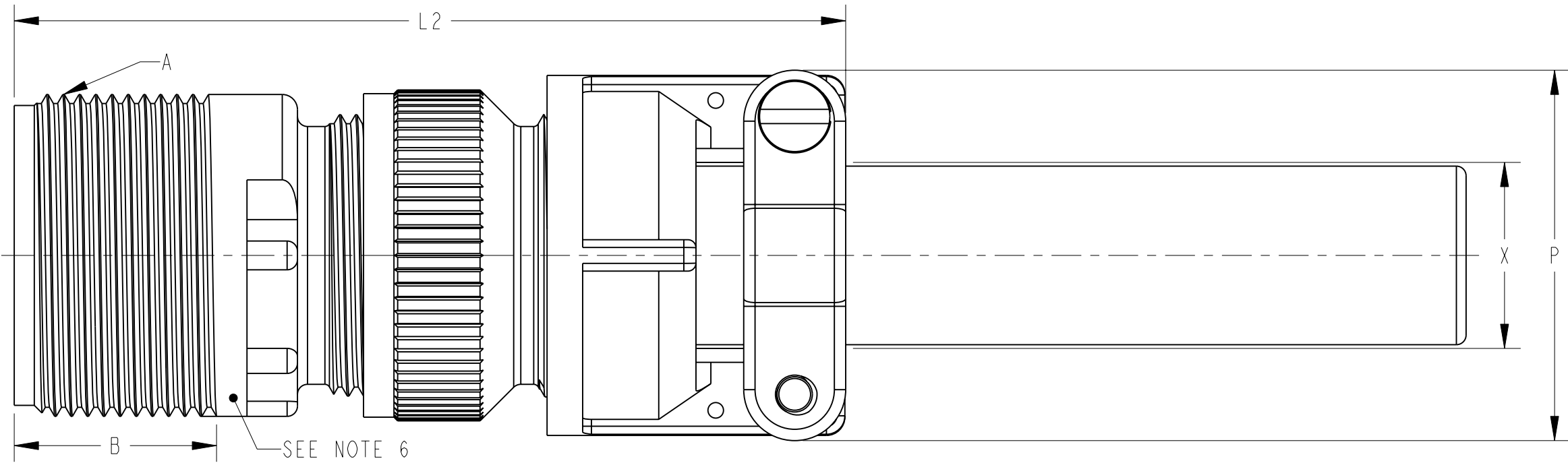
AC()01A()
AC()01E()



AC()01AD()



AC()01PG()



AC()01AF()
AC()01F()

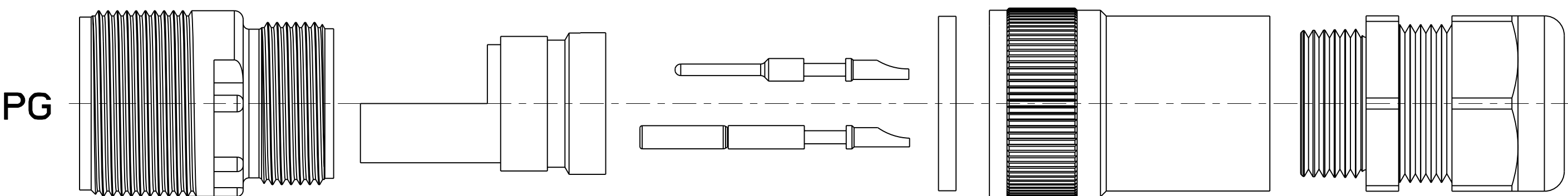
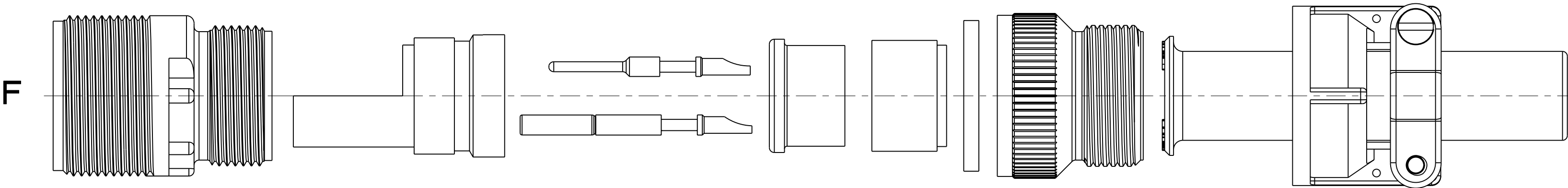
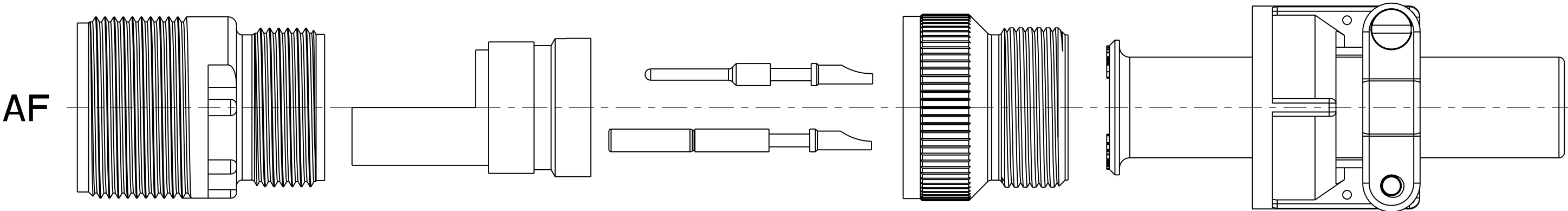
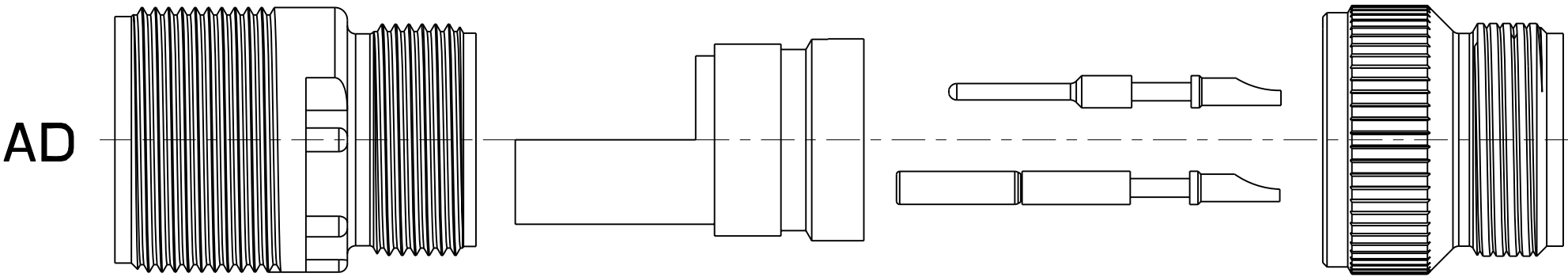
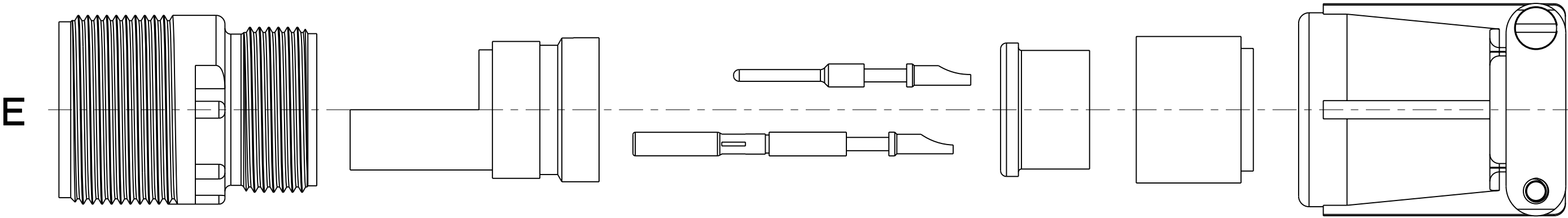
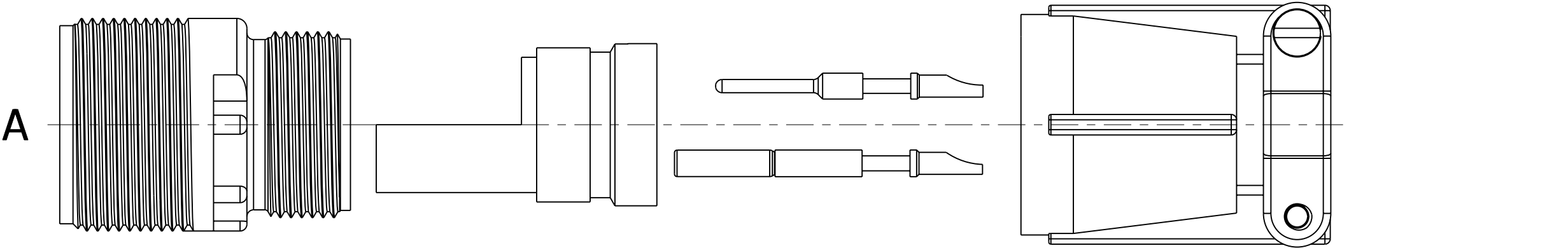
SEE SHEET 19.

NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED.
HOWEVER, DOCUMENTS REFERENCED HEREON
MAY CONTAIN LIMITED RIGHTS DATA.

SIZE	FSCM NO.	DOCUMENT NO.	REV.
C	77820	AC SERIES	G
SCALE:NONE	REF:	N/A	SHEET 5 OF 20

AC()01()



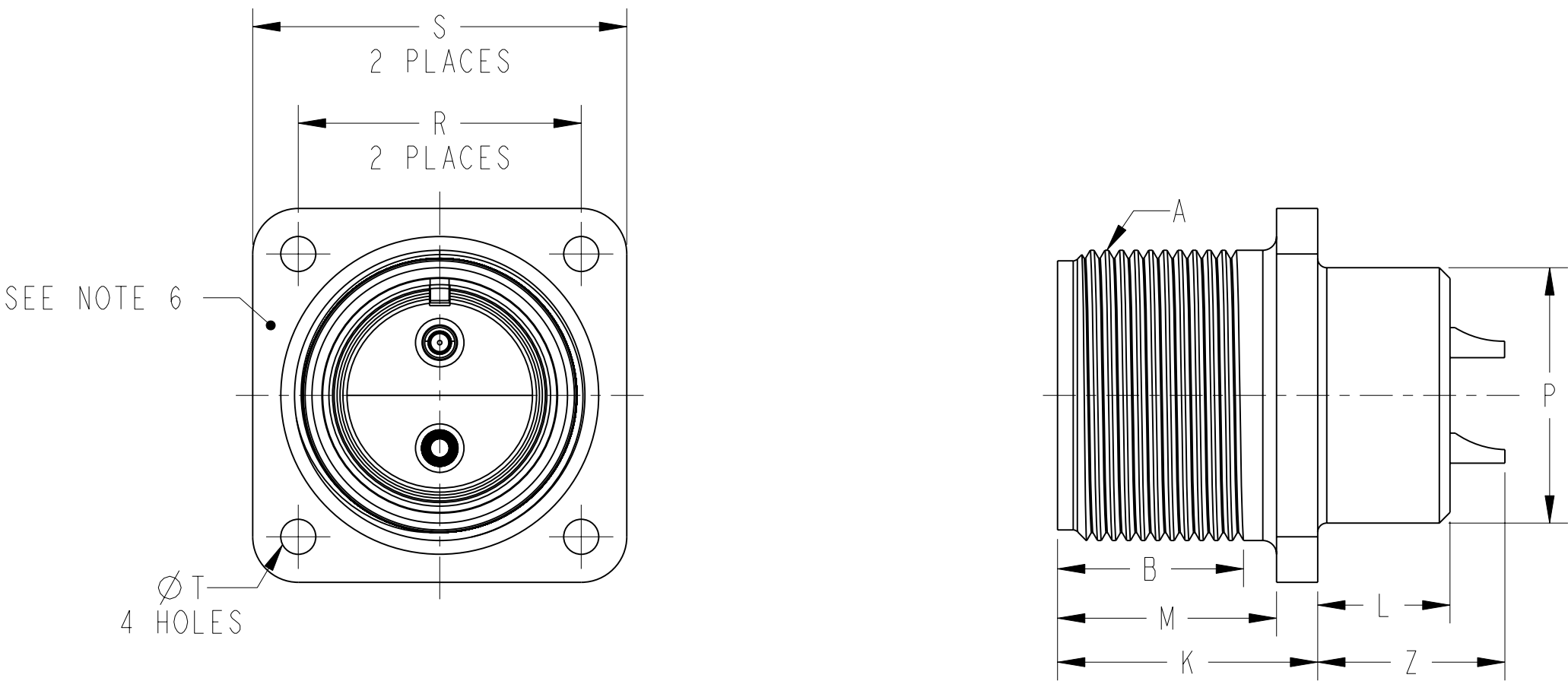
SEE SHEET 19.

NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED.
HOWEVER, DOCUMENTS REFERENCED HEREON
MAY CONTAIN LIMITED RIGHTS DATA.

SIZE	FSCM NO.	DOCUMENT NO.	REV.
C	77820	AC SERIES	G
SCALE: 1:3	REF:	N/A	SHEET 7 OF 20

AC()02()



AC()02A()
AC()02E()

SHELL SIZE	A THREAD CLASS 2A	B MIN. FULL THREAD	K +.020 -.010	L +.000 -.010	M +.010 -.000	P DIA +.010 -.000	R ±.005	S ±.010	T DIA +.004 -.002	Z MAX**
10SL	.6250-24 UNEF	.391	.672	.297	.562	.625	.719	1.000	.120	.519
12S	.7500-20 UNEF	.450	.672	.297	.562	.625	.812	1.094	.120	.519
12	.7500-20 UNEF	.625	.860	.484	.750	.625	.812	1.094	.120	.722
14S	.8750-20 UNEF	.450	.672	.297	.562	.750	.906	1.188	.120	.519
14	.8750-20 UNEF	.625	.860	.484	.750	.750	.906	1.188	.120	.722
16S	1.0000-20 UNEF	.450	.672	.297	.562	.875	.969	1.281	.120	.519
16	1.0000-20 UNEF	.625	.860	.484	.750	.875	.969	1.281	.120	.722
18	1.1250-18 UNEF	.625	.891	.453	.750	1.000	1.063	1.375	.120	.691
20	1.2500-18 UNEF	.625	.891	.453	.750	1.125	1.156	1.500	.120	.691
22	1.3750-18 UNEF	.625	.891	.453	.750	1.250	1.250	1.625	.120	.691
24	1.5000-18 UNEF	.625	.953	.453	.812	1.375	1.375	1.750	.147	.628
28	1.7500-18 UNS	.625	.953	.453	.812	1.625	1.562	2.000	.147	.628
32	2.0000-18 UNS	.625	1.031	.438	.875	1.875	1.750	2.250	.173	.550
36	2.2500-16 UN	.625	1.031	.438	.875	2.062	1.938	2.500	.173	.550
40	2.5000-16 UN	.625	1.031	.438	.875	2.312	2.188	2.750	.173	.550

SEE SHEET 19.

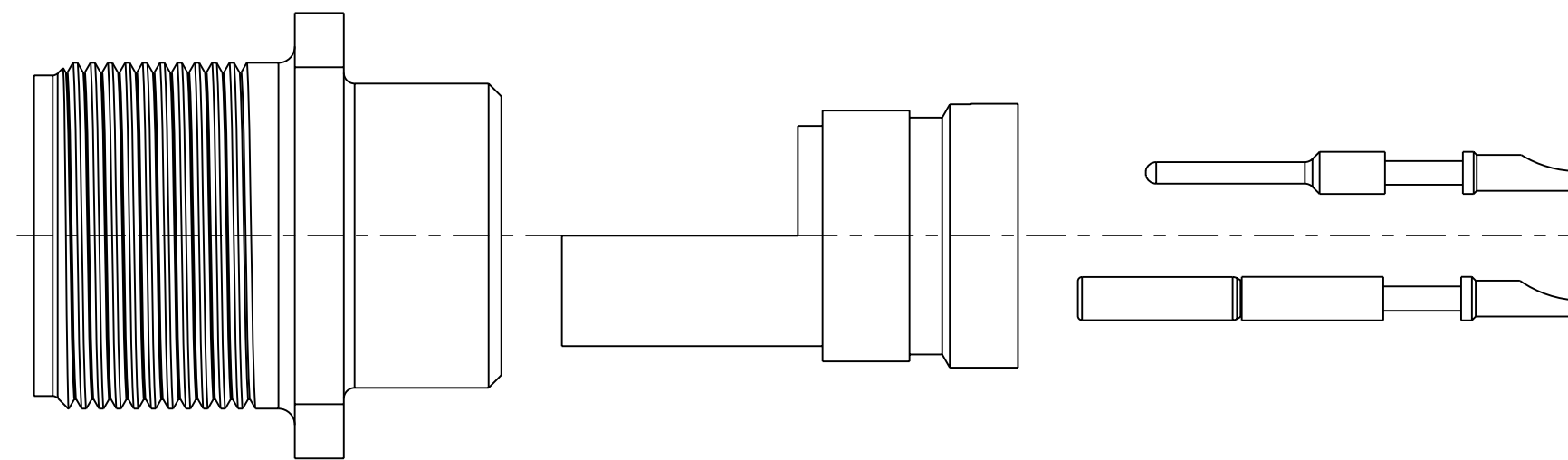
NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED.
HOWEVER, DOCUMENTS REFERENCED HEREON
MAY CONTAIN LIMITED RIGHTS DATA.

** INCREASE Z DIMENSION BY .312 FOR SIZE "0" CONTACT ONLY.

SIZE	FSCM NO.	DOCUMENT NO.	REV.
C	77820	AC SERIES	G
SCALE:NONE	REF: N/A	SHEET 8 OF 20	

AC()O2()



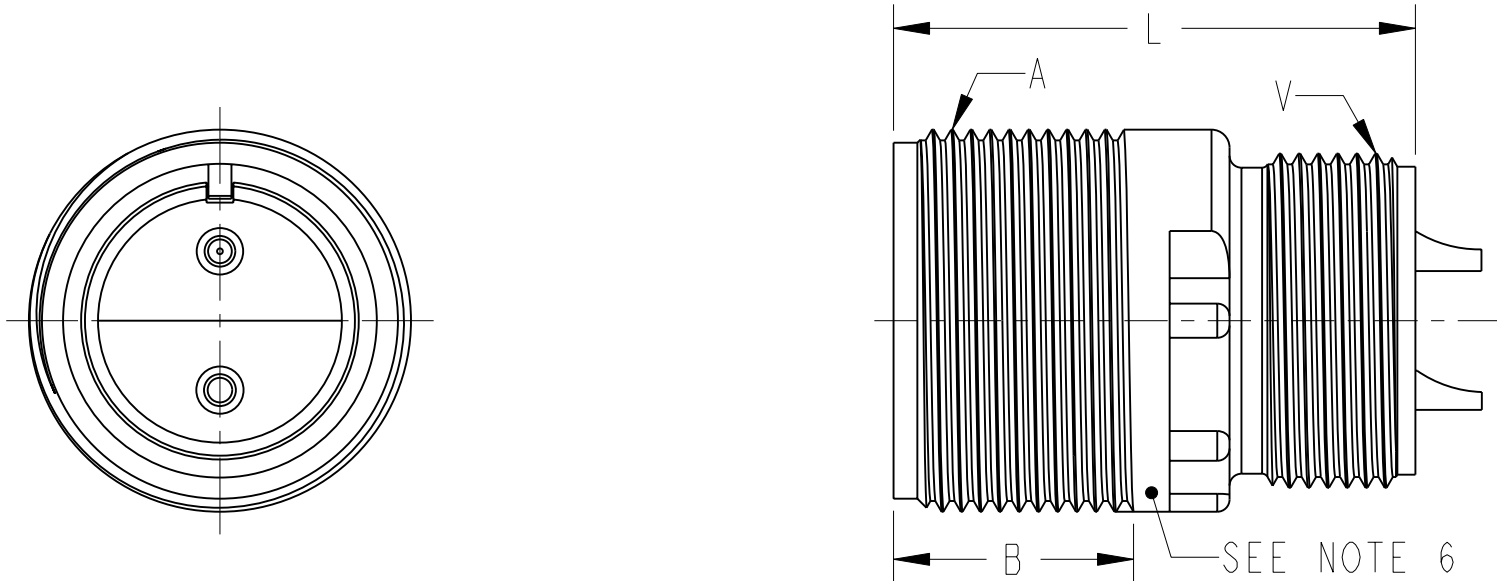
SEE SHEET 19.

NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED.
HOWEVER, DOCUMENTS REFERENCED HEREON
MAY CONTAIN LIMITED RIGHTS DATA.

SIZE C	FSCM NO. 77820	DOCUMENT NO. AC SERIES	REV. G
SCALE: NONE	REF: N/A	SHEET 9 OF 20	

AC()04()



AC()04A()
AC()04E()

SHELL SIZE	A THREAD CLASS 2A	B MIN. FULL THREAD	L REF	V THREAD CLASS 2A
10SL	.6250-24 UNEF	.406	.969	.6250-24 UNEF
12S	.7500-20 UNEF	.422	.969	.6250-24 UNEF
12	.7500-20 UNEF	.656	1.344	.6250-24 UNEF
14S	.8750-20 UNEF	.391	.969	.7500-20 UNEF
14	.8750-20 UNEF	.625	1.344	.7500-20 UNEF
16S	1.0000-20 UNEF	.391	.969	.8750-20 UNRF
16	1.0000-20 UNEF	.625	1.344	.8750-20 UNEF
18	1.1250-18 UNEF	.625	1.344	1.0000-20 UNEF
20	1.2500-18 UNEF	.625	1.344	1.1250-18 UNEF
22	1.3750-18 UNEF	.625	1.344	1.2500-18 UNEF
24	1.5000-18 UNEF	.625	1.406	1.3750-18 UNEF
28	1.7500-18 UNS	.625	1.406	1.6250-18 UNEF
32	2.0000-18 UNS	.625	1.469	1.8750-16 UN
36	2.2500-16 UN	.625	1.469	2.0625-16 UN
40	2.5000-16 UN	.625	1.469	2.3125-16 UN

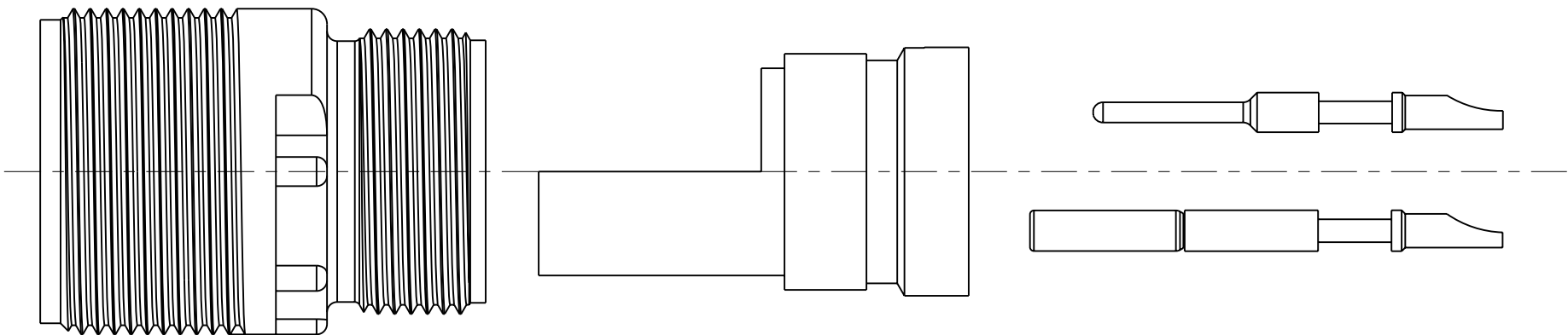
SEE SHEET 19.

NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED.
HOWEVER, DOCUMENTS REFERENCED HEREON
MAY CONTAIN LIMITED RIGHTS DATA.

SIZE C	FSCM NO. 77820	DOCUMENT NO. AC SERIES	REV. G
SCALE: NONE	REF: N / A	SHEET 10 OF 20	

AC()04()



SEE SHEET 19.

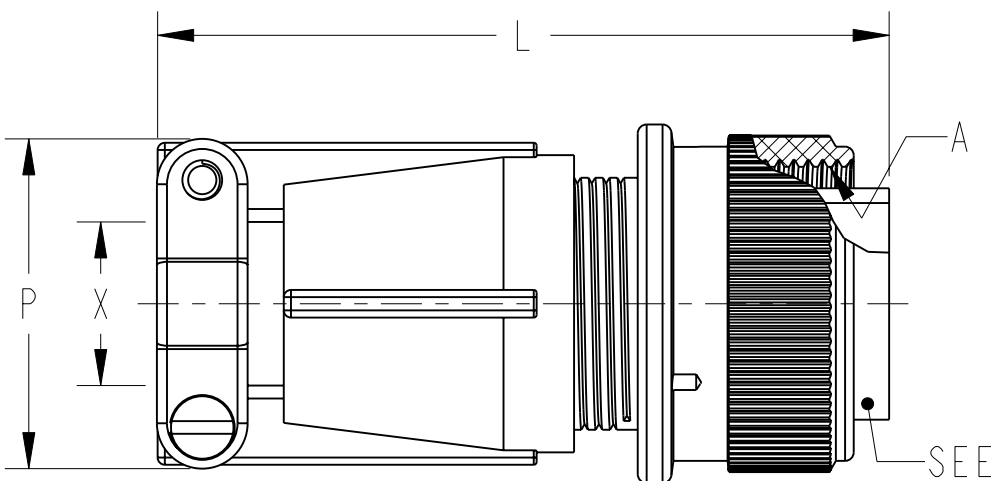
NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED.
HOWEVER, DOCUMENTS REFERENCED HEREON
MAY CONTAIN LIMITED RIGHTS DATA.

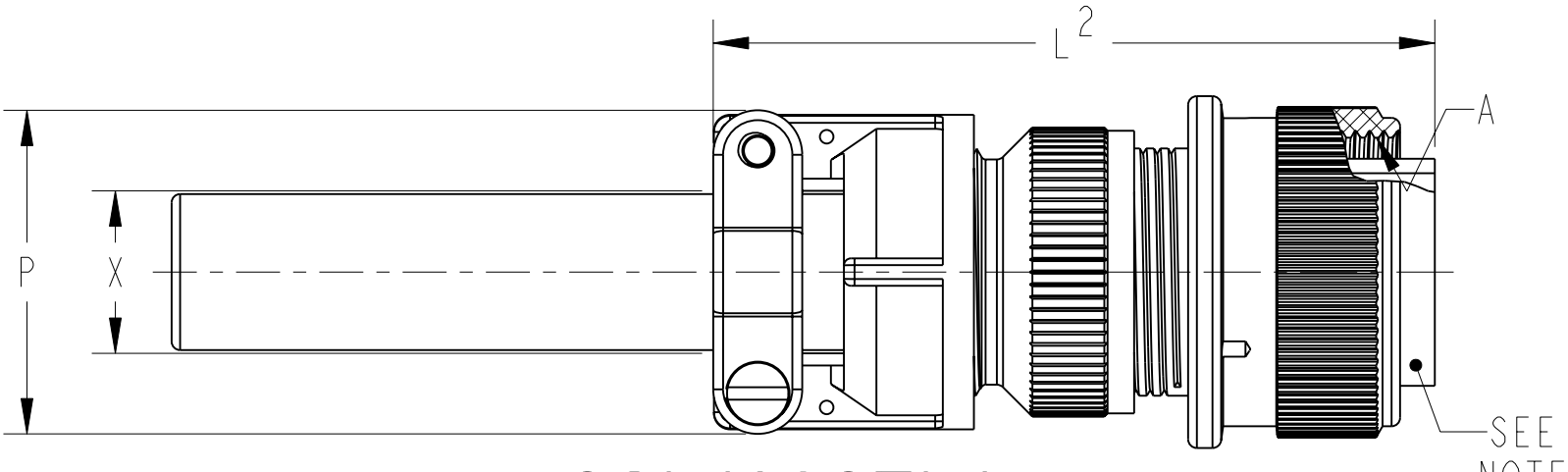
SIZE C	FSCM NO. 77820	DOCUMENT NO. AC SERIES	REV. G
SCALE: NONE	REF: N/A	SHEET 11 OF 20	

TAB

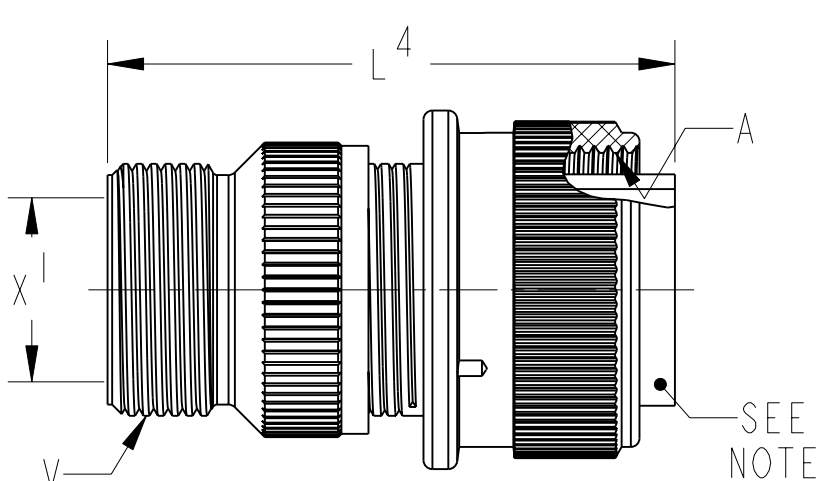
AC()06()



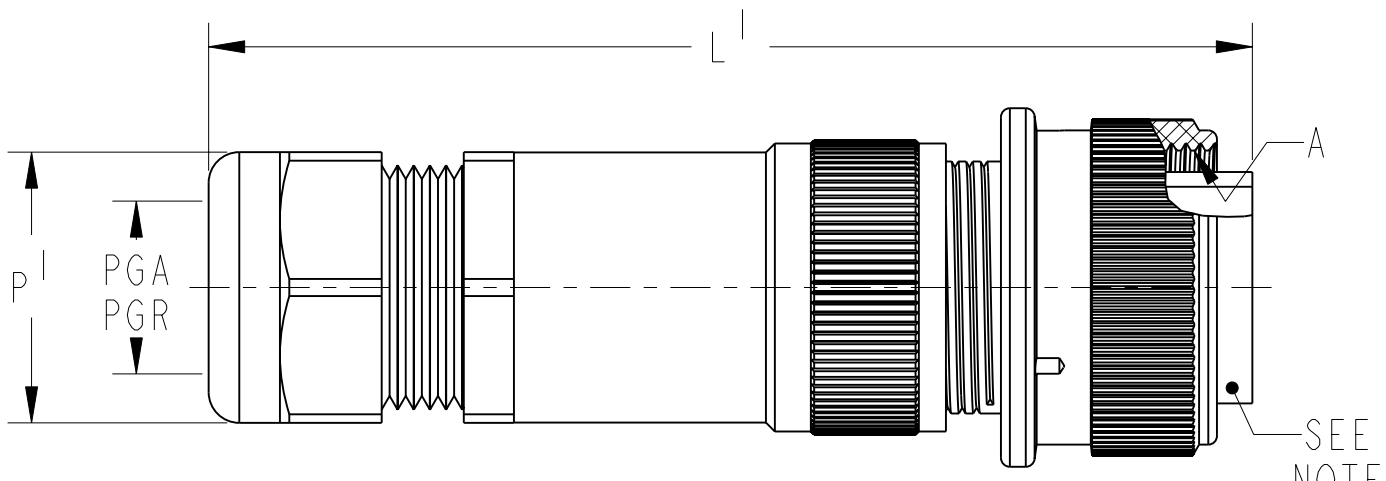
AC()06A()
AC()06E()



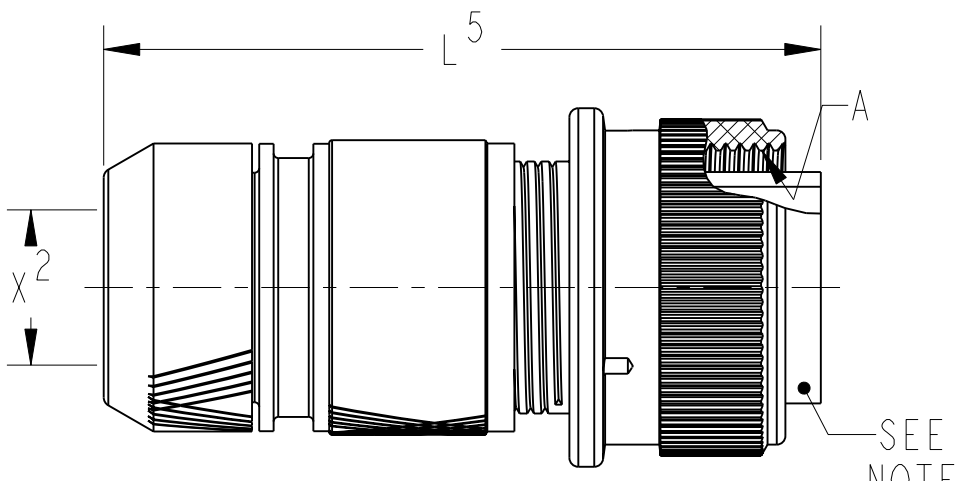
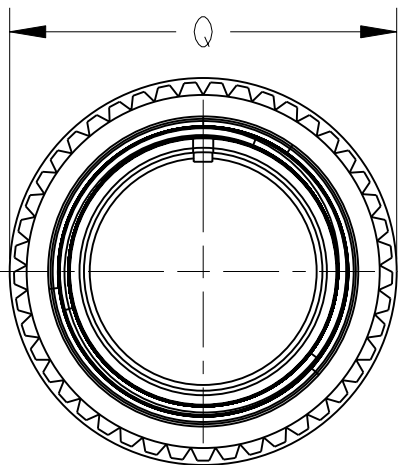
AC()06AF()
AC()06F()



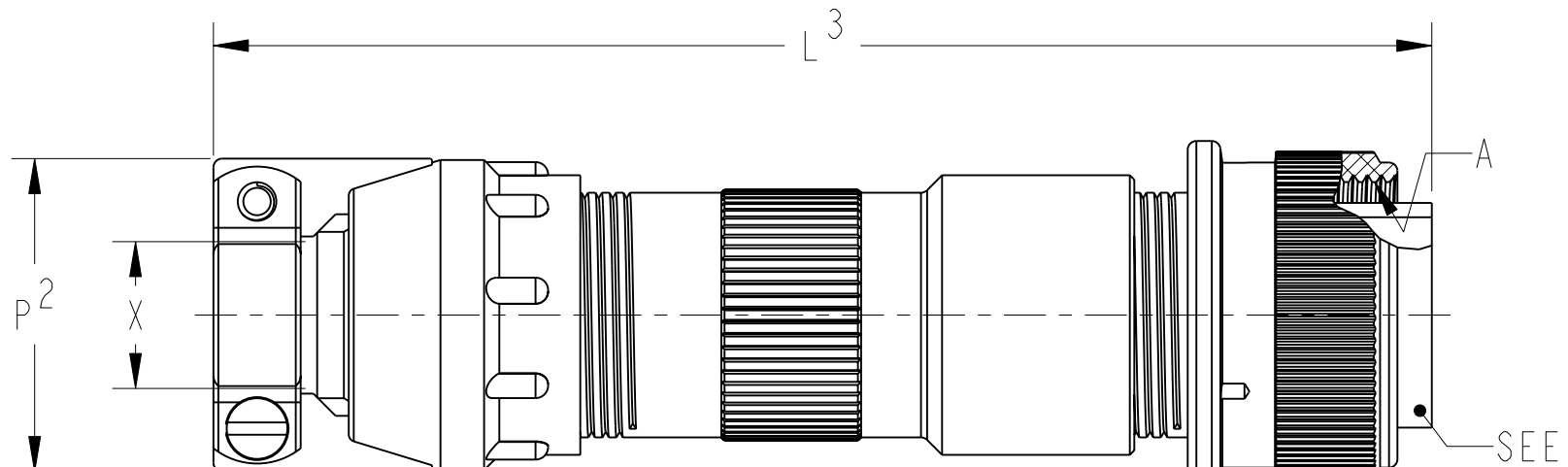
AC()06AD()
AC()06R()



AC()06PG()



AC()06SB()



AC()06LCFZ()

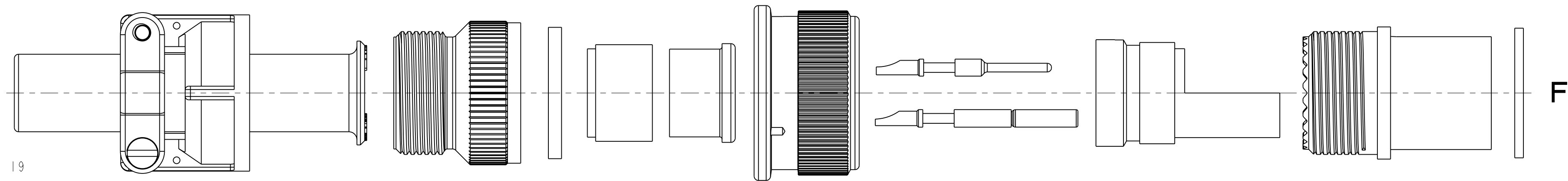
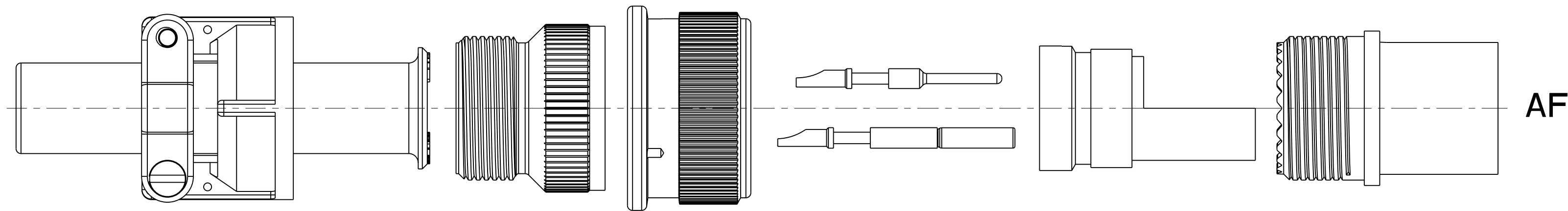
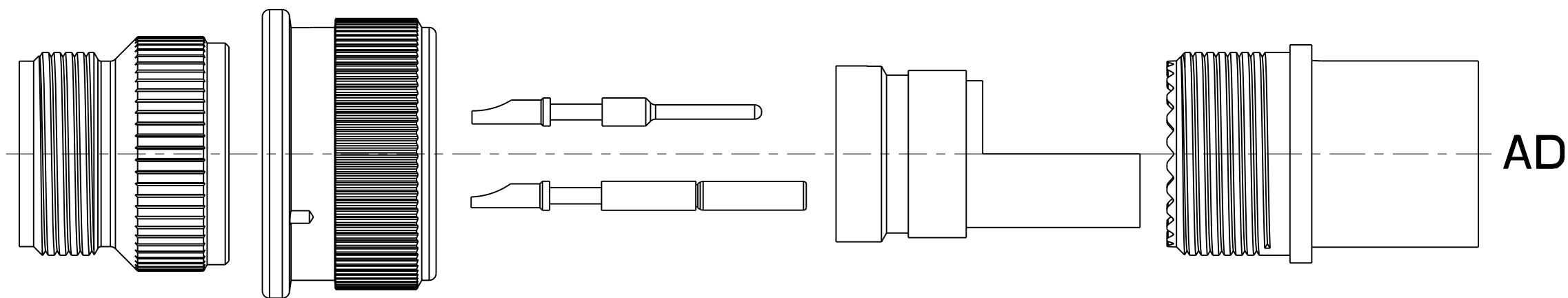
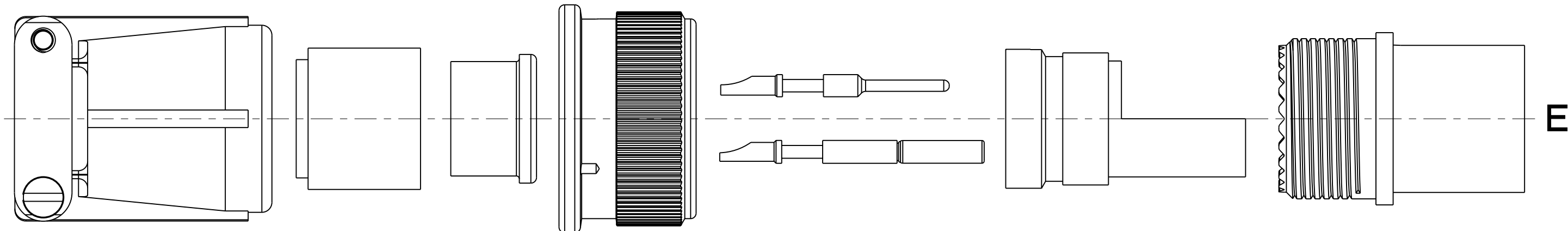
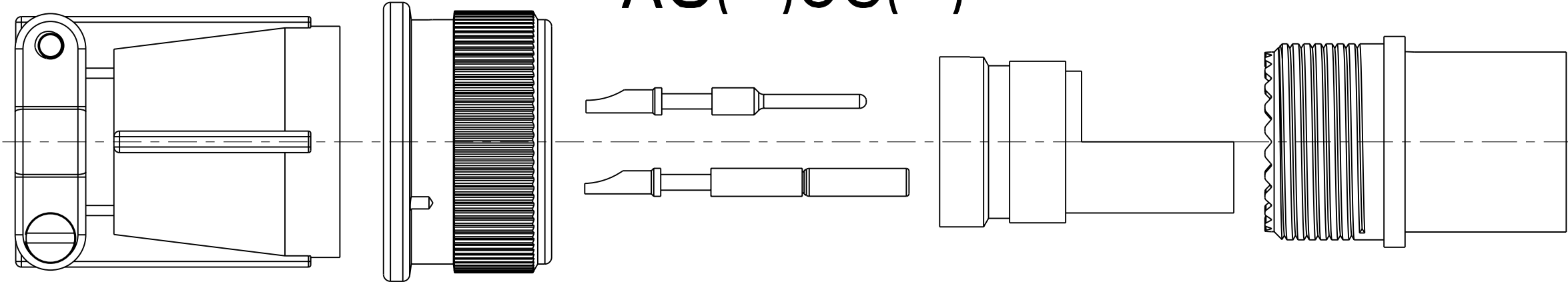
SEE SHEET 19.

NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED.
HOWEVER, DOCUMENTS REFERENCED HEREON
MAY CONTAIN LIMITED RIGHTS DATA.

SIZE	FSCM NO.	DOCUMENT NO.	REV.
C	77820	AC SERIES	G
SCALE:NONE	REF:	N/A	SHEET 12 OF 20

AC()06()



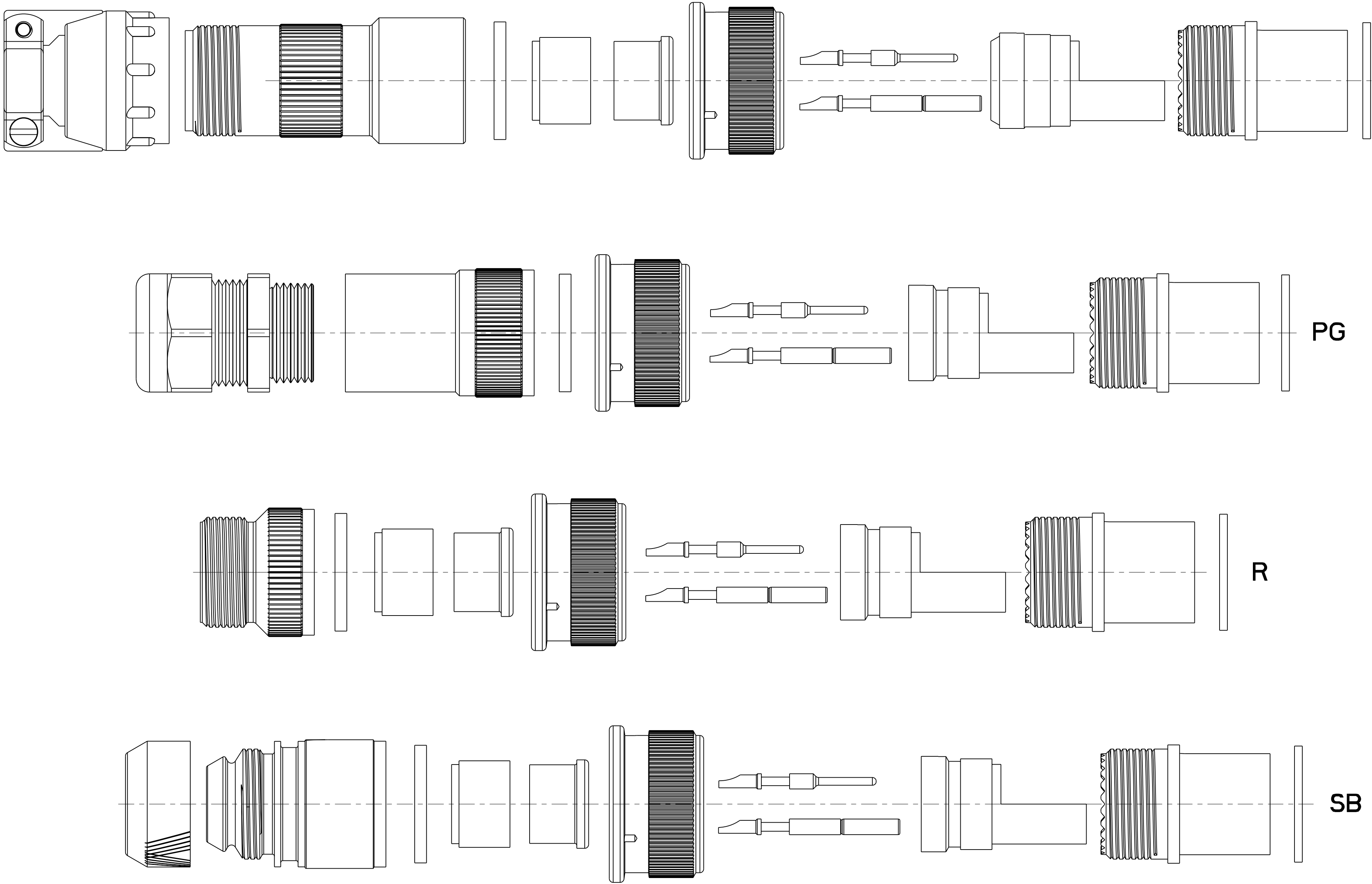
SEE SHEET 19

NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED.
HOWEVER, DOCUMENTS REFERENCED HEREON
MAY CONTAIN LIMITED RIGHTS DATA.

SIZE	FSCM NO.	DOCUMENT NO.	REV.
C	77820	AC SERIES	G
SCALE: 1.0	REF:	N/A	SHEET 14 OF 20

AC()06()



LCFZ

PG

R

SB

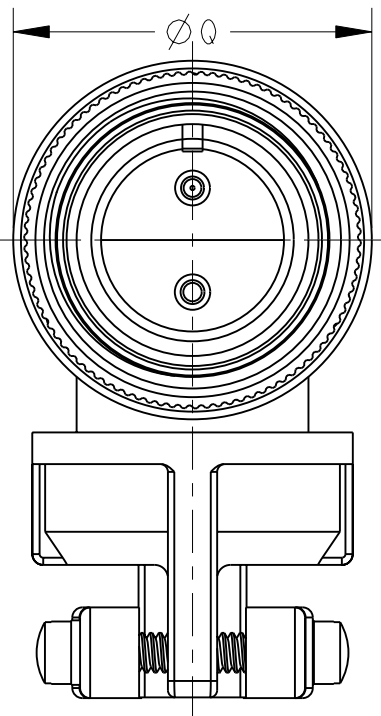
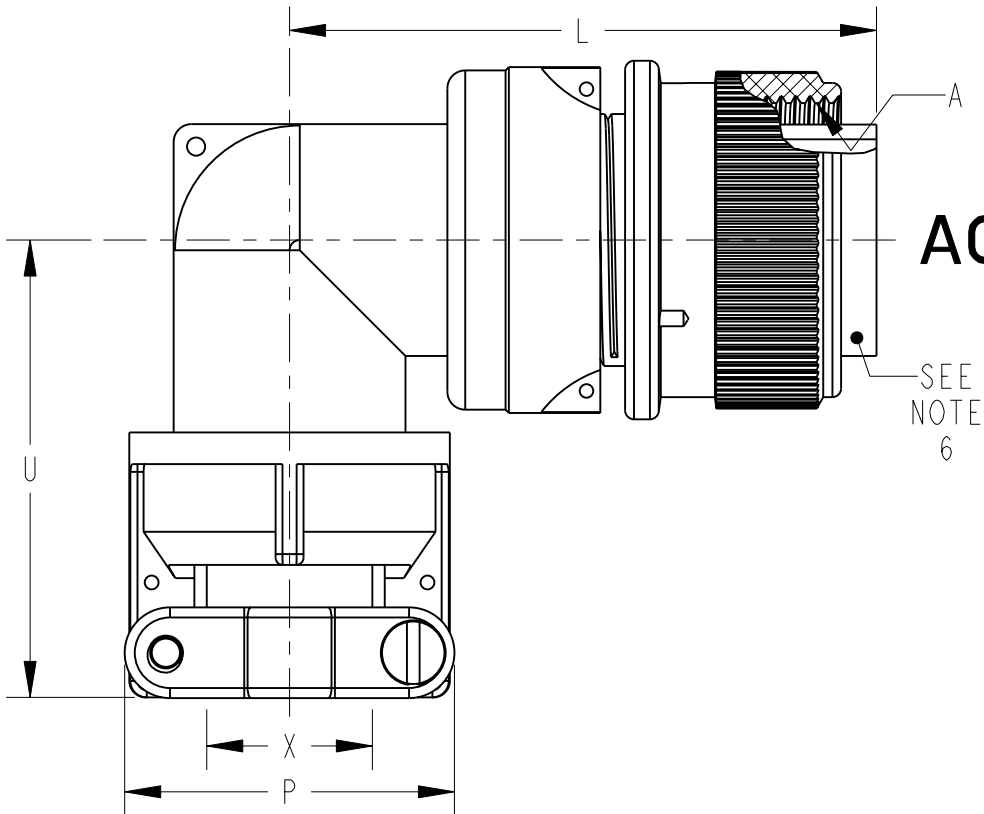
SEE SHEET 19.

NOTES:

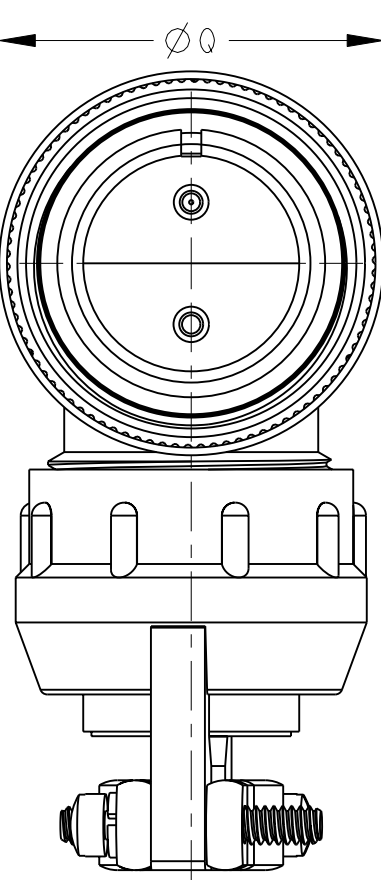
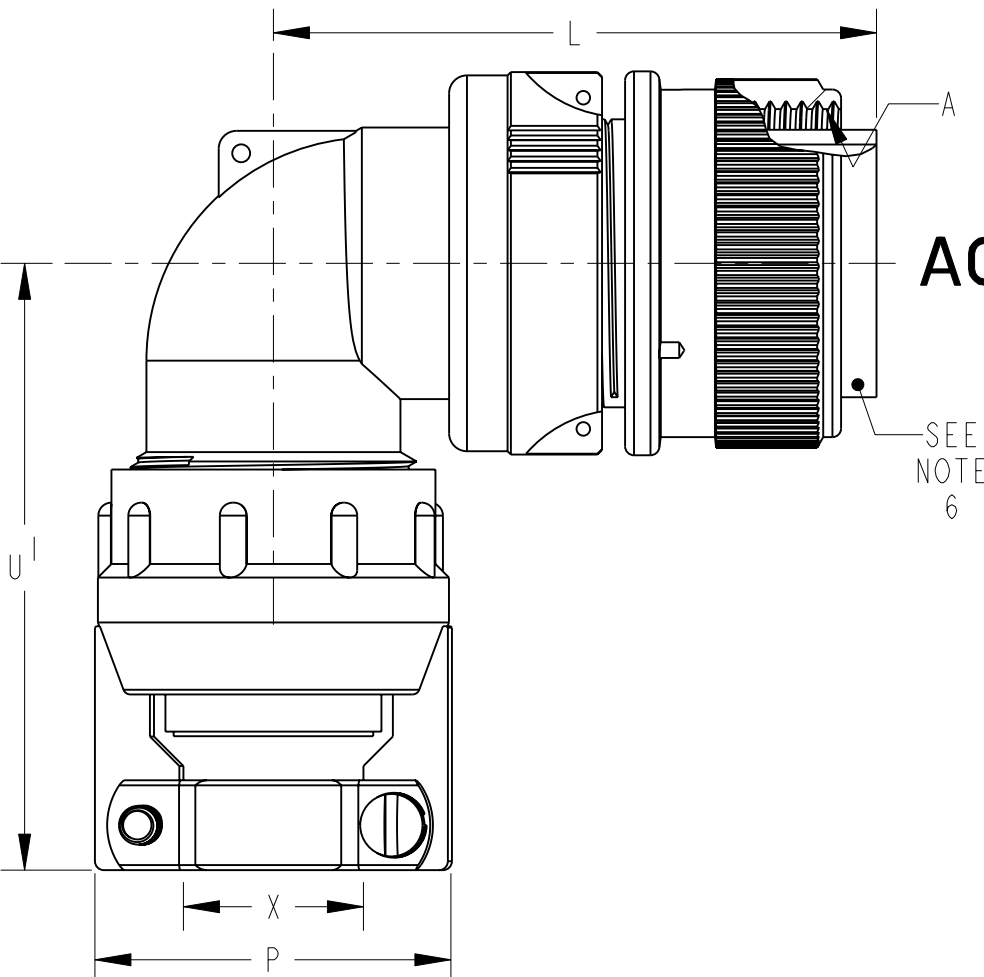
THE USE OF THIS DOCUMENT IS UNLIMITED.
HOWEVER, DOCUMENTS REFERENCED HEREON
MAY CONTAIN LIMITED RIGHTS DATA.

SIZE C	FSCM NO. 77820	DOCUMENT NO. AC SERIES	REV. G
SCALE: 1.0	REF: N/A	SHEET 15 OF 20	

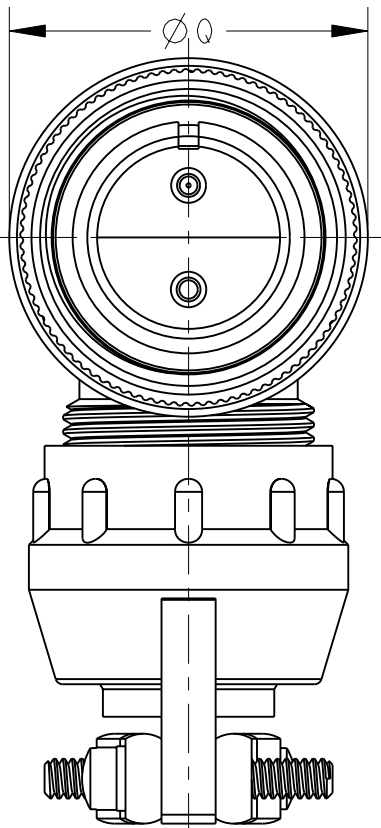
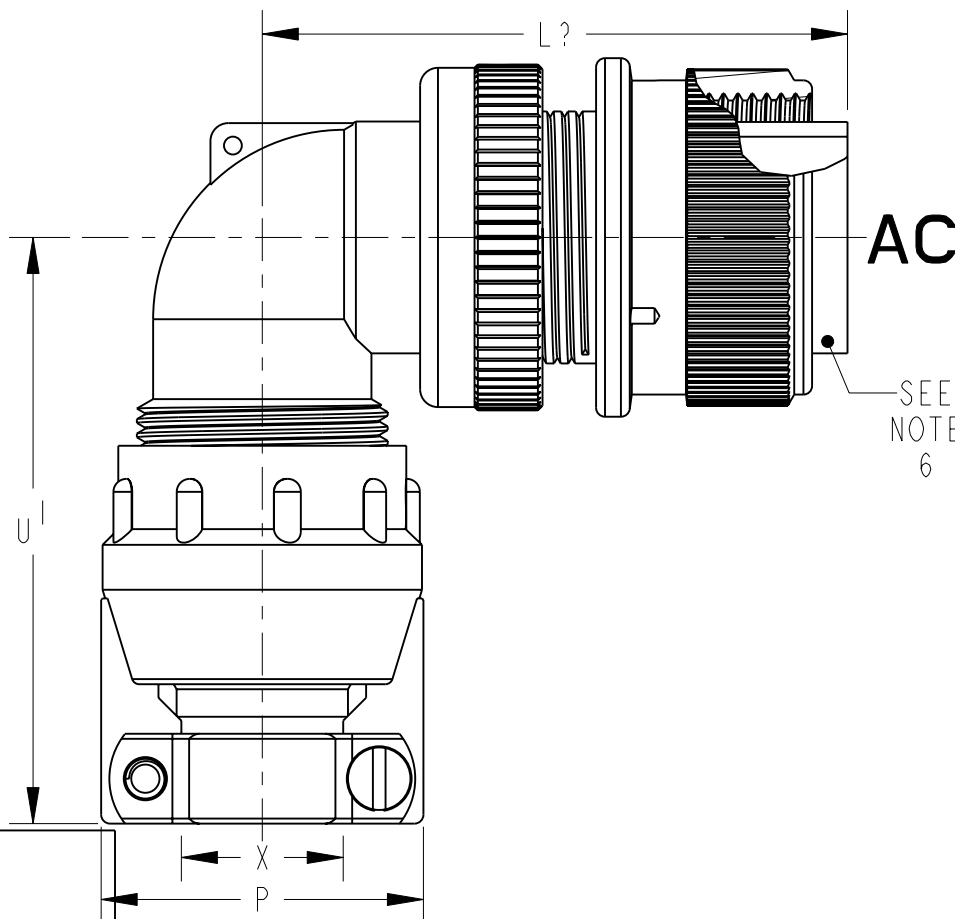
AC()08()



AC()08E()



AC()08CF()



SEE SHEET 19

NOTES:

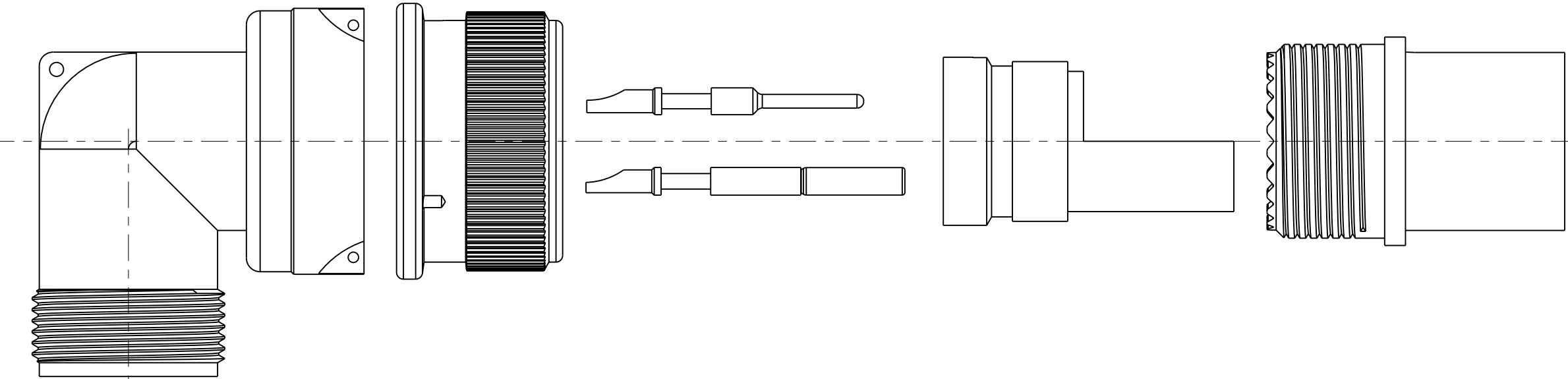
THE USE OF THIS DOCUMENT IS UNLIMITED.
HOWEVER, DOCUMENTS REFERENCED HEREON
MAY CONTAIN LIMITED RIGHTS DATA.

SIZE	FSCM NO.	DOCUMENT NO.	REV.
C	77820	AC SERIES	G
SCALE:NONE	REF:	N/A	SHEET 16 OF 20

SHELL SIZE	A THREAD CLASS 2B	L MAX	L ^I MAX	P MAX	Q DIA MAX	U MAX	U ^I MAX	X MAX O.D. CABLE
10SL	.6250-24 UNEF	1.492	1.492	.906	.946	1.305	1.812	.312
12S	.7500-20 UNEF	1.492	1.492	.906	.995	1.305	1.812	.312
12	.7500-20 UNEF	1.867	1.867	.906	.995	1.305	1.812	.312
14S	.8750-20 UNEF	1.556	1.556	1.031	1.123	1.485	1.875	.438
14	.8750-20 UNEF	1.931	1.931	1.031	1.123	1.485	1.875	.438
16S	1.0000-20 UNEF	1.682	1.682	1.125	1.250	1.612	1.937	.531
16	1.0000-20 UNEF	2.057	2.057	1.125	1.250	1.612	1.937	.531
18	1.1250-18 UNEF	2.119	2.119	1.234	1.333	1.738	2.109	.625
20	1.2500-18 UNEF	2.369	2.322	1.484	1.461	1.800	2.187	.750
22	1.3750-18 UNEF	2.369	2.322	1.484	1.588	1.862	2.250	.750
24	1.5000-18 UNEF	2.620	2.510	1.683	1.715	2.100	2.484	.938
28	1.7500-18 UNS	2.620	2.510	1.683	1.968	2.162	2.546	.938
32	2.0000-18 UNS	2.842	2.744	2.188	2.209	2.405	3.045	1.250
36	2.2500-16 UN	2.900	2.869	2.344	2.463	2.536	3.218	1.375
40	2.5000-16 UN	3.025	2.994	2.688	2.719	3.206	3.375	1.625

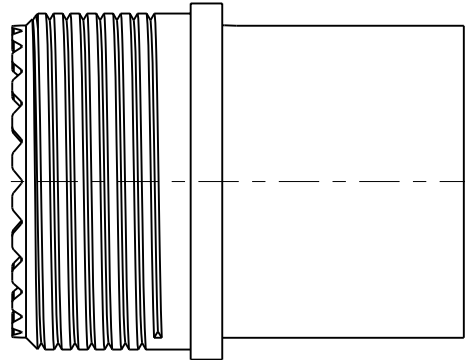
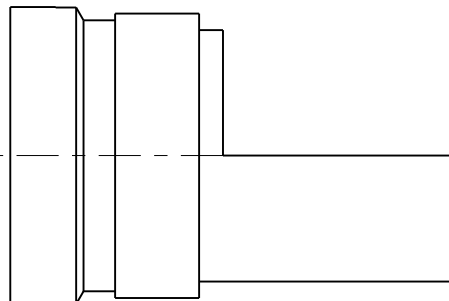
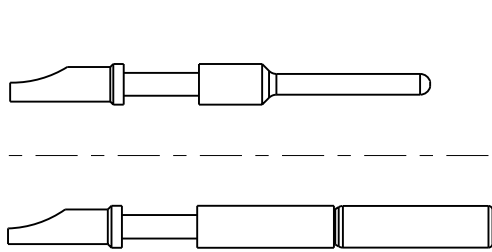
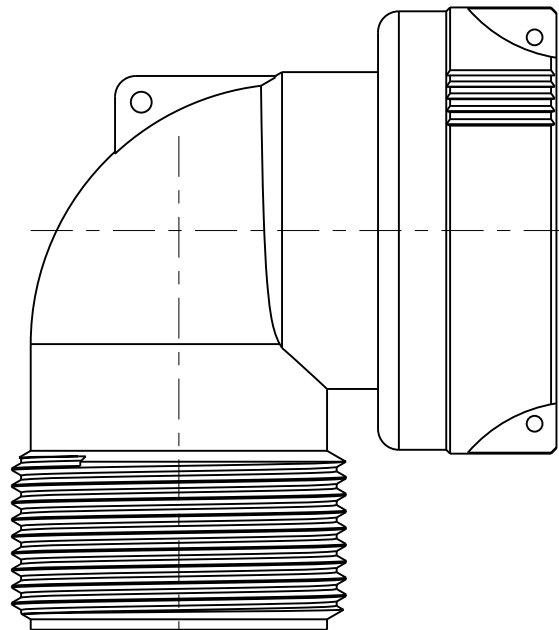
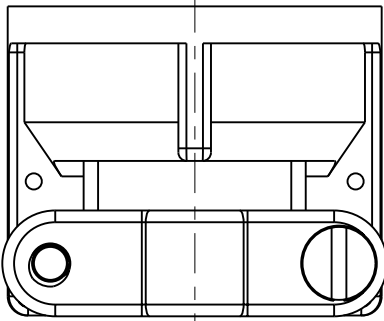
AC()08()

D



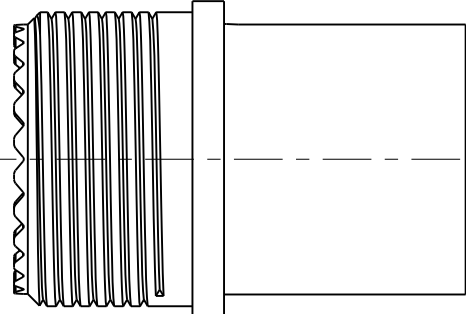
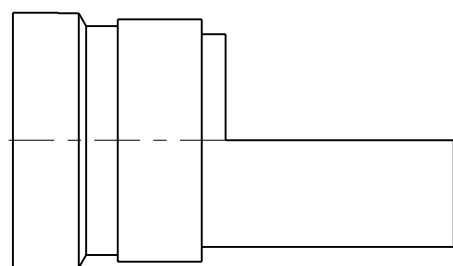
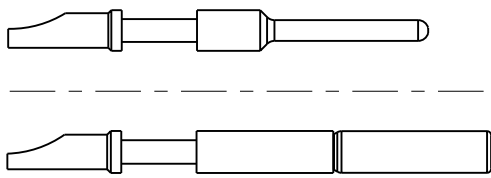
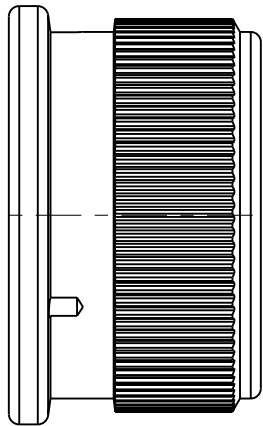
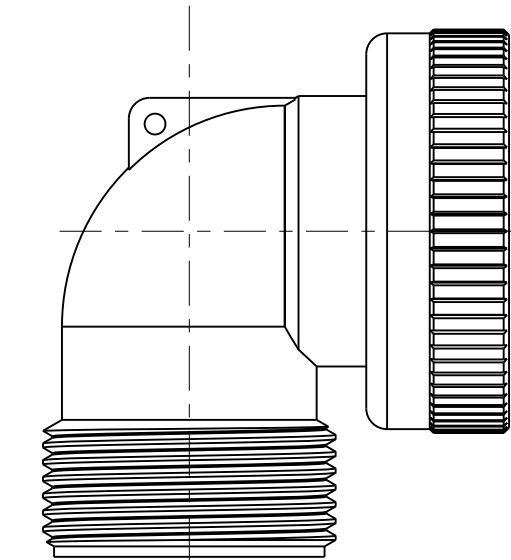
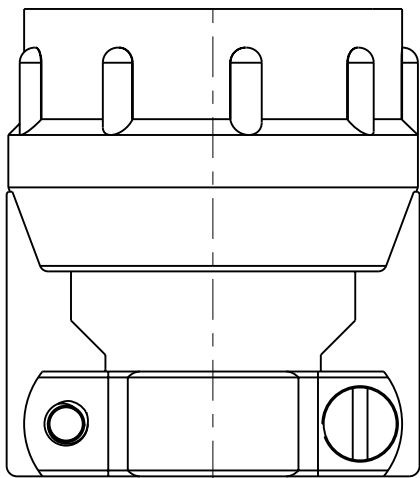
A

C



E

B



CF

A

SEE SHEET 19.

NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED.
HOWEVER, DOCUMENTS REFERENCED HEREON
MAY CONTAIN LIMITED RIGHTS DATA.

SIZE	FSCM NO.	DOCUMENT NO.	REV.
C	77820	AC SERIES	G
SCALE:NONE	REF:	N/A	SHEET 18 OF 20

D

C

B

A

CRIMP WELL DATA					
CONTACT SIZE	0	4	8	12	16
WELL DIA	.453±.005	.281 ^{+.005} _{-.004}	.179 ^{+.004} _{-.002}	.098 ^{+.004} _{-.001}	.063 ^{+.004} _{-.001}
WELL DEPTH ^{+.031} _{-.000}	.592	.500	.500	.250	.250
SOLDER WELL DATA					
CONTACT SIZE	0	4	8	12	16
WELL DIA	.469 ^{+.005} _{-.003}	.332 ^{+.005} _{-.003}	.209 ^{+.004} _{-.002}	.116 ^{+.004} _{-.002}	.078 ^{+.004} _{-.002}
WELL DEPTH ^{+.031} _{-.000}	.625	.625	.500	.375	.250

7. PROCESS SPECIFICATIONS: (SEE NOTES 8 AND 9)

[illegible]

6. STAMP INDICATED SURFACE IN A CONTRASTING COLOR PER WORK ORDER. IF NOTHING SPECIFIED ON WORK ORDER, STAMP CODED AC NUMBER, "AMPHENOL" AND DATE CODE (PER 9-3895). CHARACTER HEIGHT TO BE .062 MINIMUM.

5. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

4. SEE SPEARATE PART LIST FOR COMPONENT PART NUMBERS AND QUANTITIES.

3. CRIMP CONTACTS ARE SHIPPED UNASSEMBLED.
SOLDER CONTACTS AND ALL INSERTS ARE NOT REMOVABLE.

2. FOR CONTACT SIZE, SPACING AND SERVICE RATING, SEE MIL-STD-1651 OR L-11908/48-().

I. UNIT MEETS ALL APPLICABLE REQUIREMENTS OF MIL-C-5015.

9. IF PART NUMBER CONTAINS MODIFIER "L", SUBSTITUTE ASSEMBLY SPECIFICATIONS 9-5336-5 FOR ACSL() AND 9-5336-1 FOR ACCL().

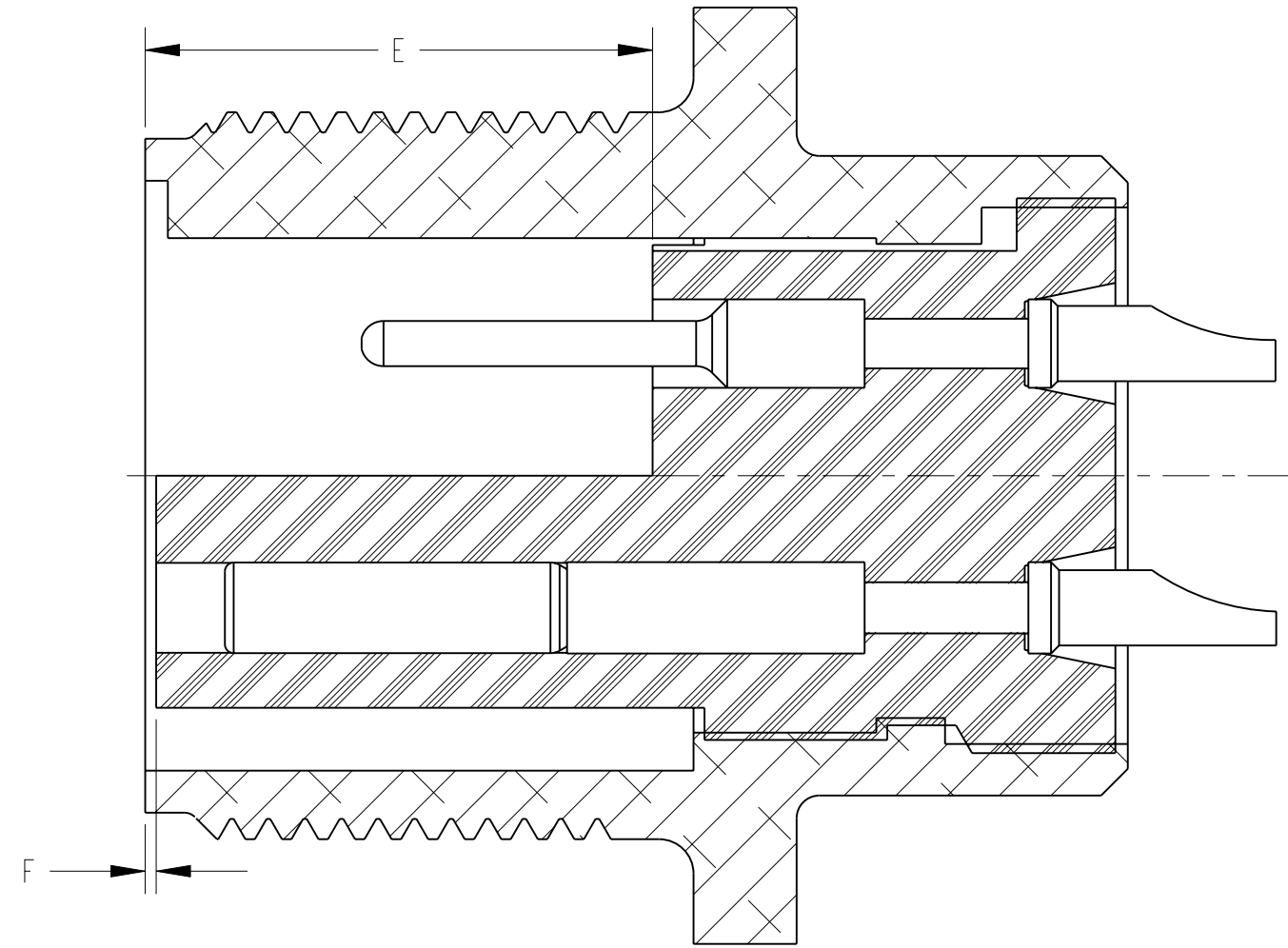
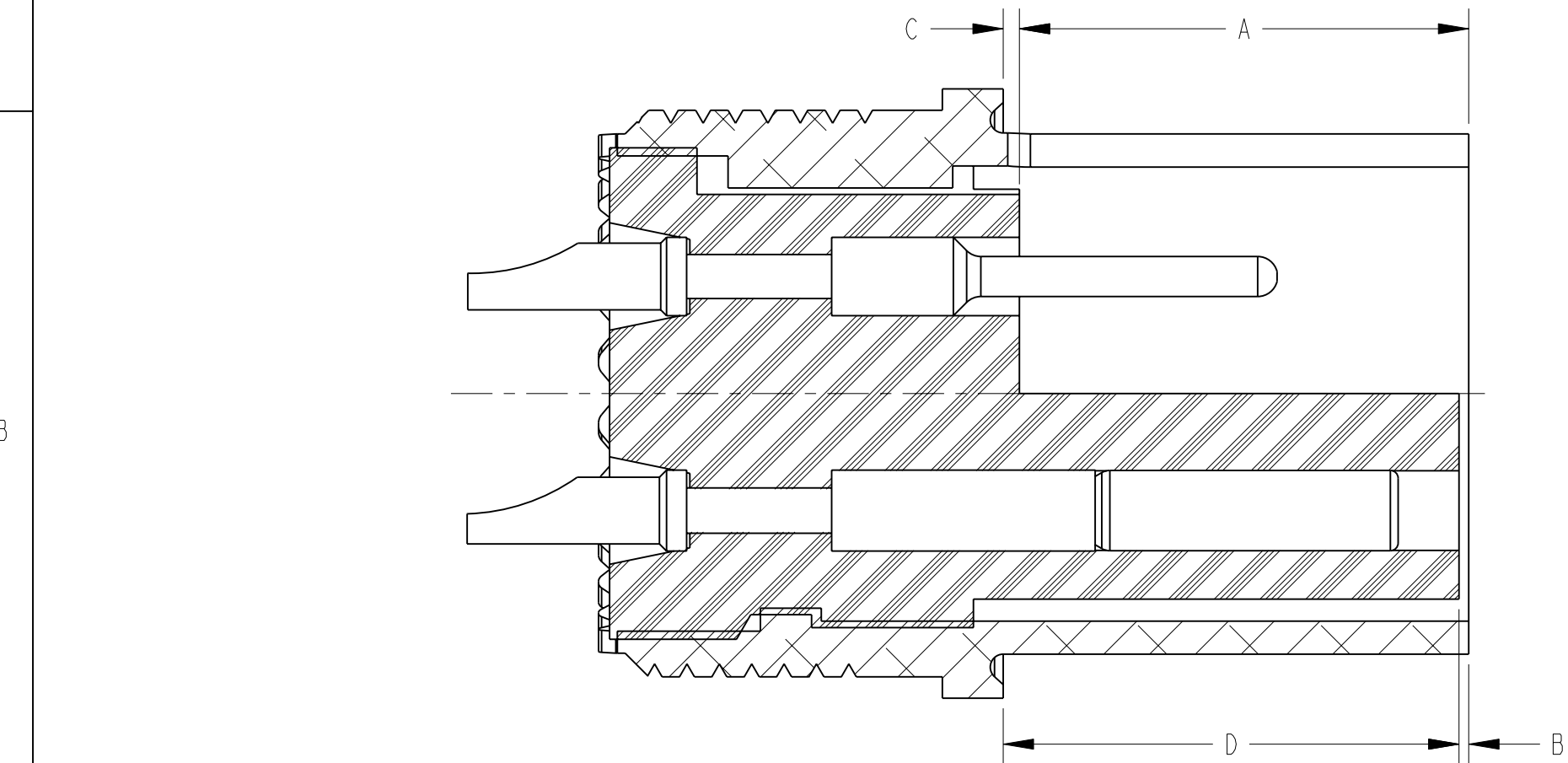
8. FOR ACC()E, ACC()F, ACC()PG, ACC()R, AND ACC()LCFZ, CONTACTS MUST BE BONDED IN BY CUSTOMER WITH A SUITABLE EPOXY.

NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED.
HOWEVER, DOCUMENTS REFERENCED HEREON
MAY CONTAIN LIMITED RIGHTS DATA.

SIZE C	FSCM NO. 77820	DOCUMENT NO. AC SERIES	REV. G
SCALE: NONE	REF: N/A	SHEET 19 OF 20	

AN MS SIZE	AMPHENOL EQUIVALENT	RB CONNL, & CONN. STAMPED "AN"				AN REF, MS, MS REF & QWL					
		A +.016 -.047	B +.016 -.047	E +.016 -.047	F +.016 -.047	C ±.031	D +.047 -.000	E ±.031	F +.000 -.047		
8S	8	.492	.000	.492	.000	.047	.531	.484	.000		
10S	10	.492			.000	.047			.000		
10SL	11	--			--	--			--		
12S	12	.492		.679	.000	.047	.719	.672	.000		
12	13	.679								.531	.484
14S	14	.492								.719	.672
14	15	.679								.531	.484
16S	16	.492									
16	17	.679		.679			.000	.047		.719	.672
18	18										
20	20										
22	22										
24	24										
28	28										
32	32										
36	36										
40	40										
44	44										
48	48										



SEE SHEET 19.

NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED.
HOWEVER, DOCUMENTS REFERENCED HEREON
MAY CONTAIN LIMITED RIGHTS DATA.

D

C

B

A