

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

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SEE SHEET 19

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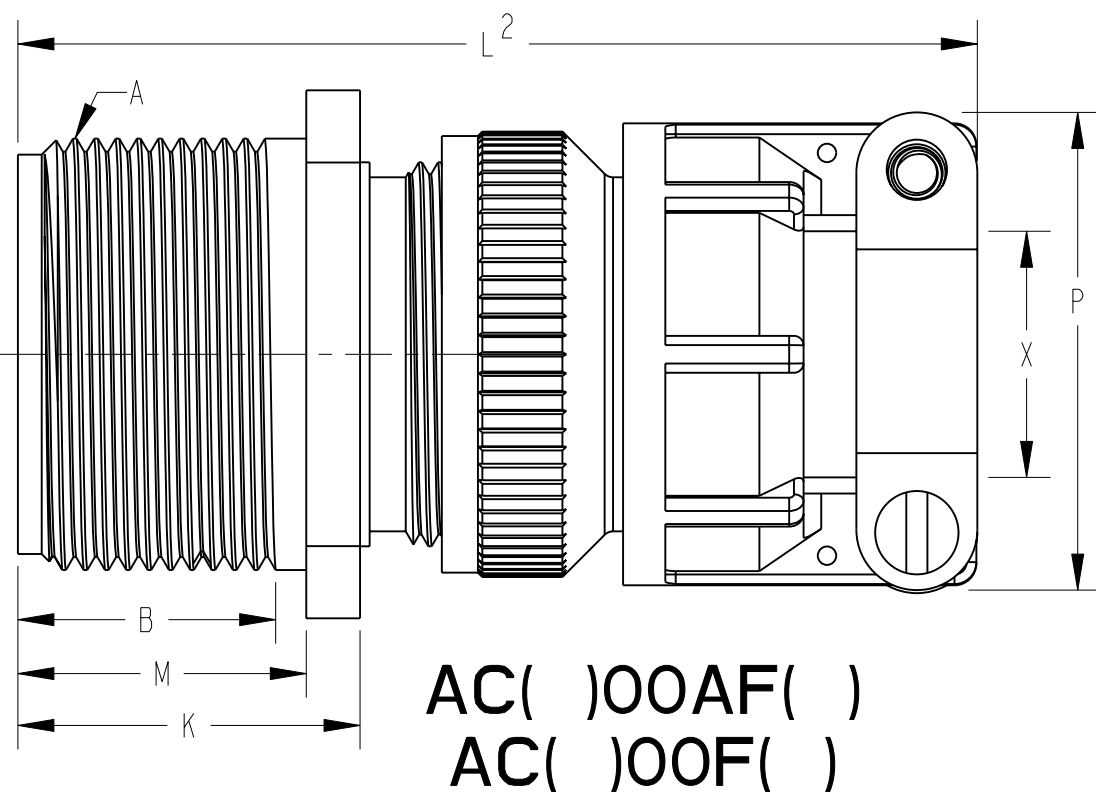
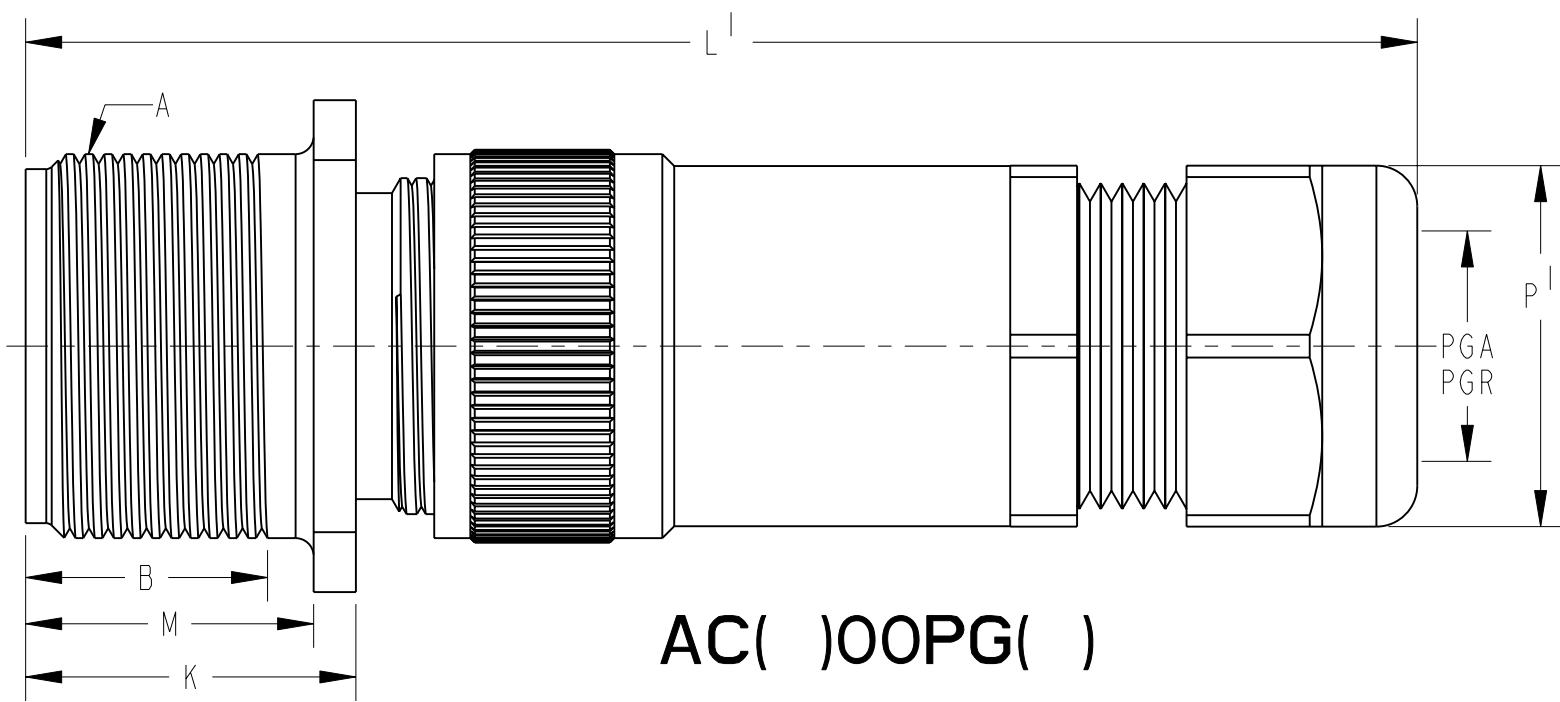
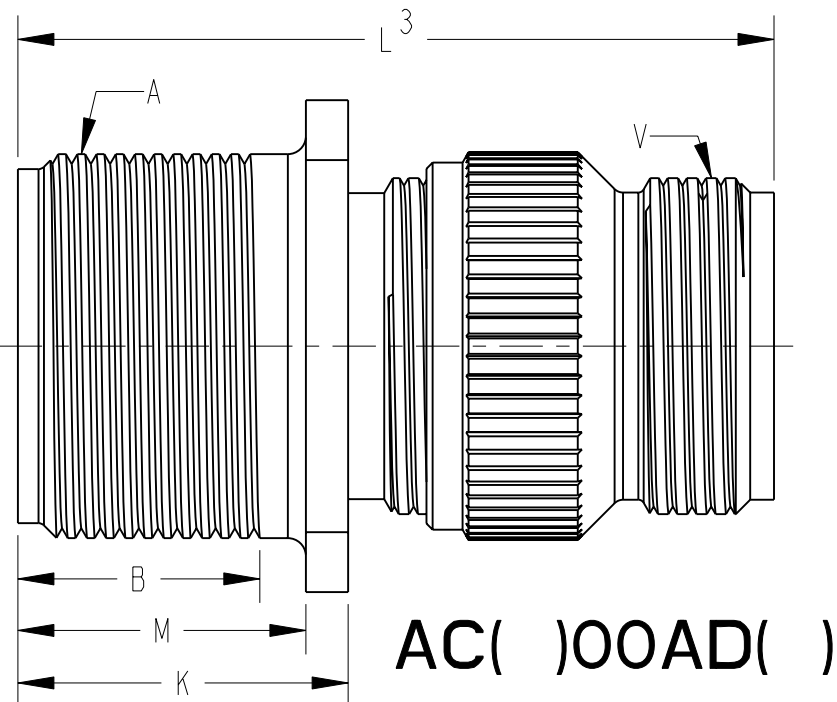
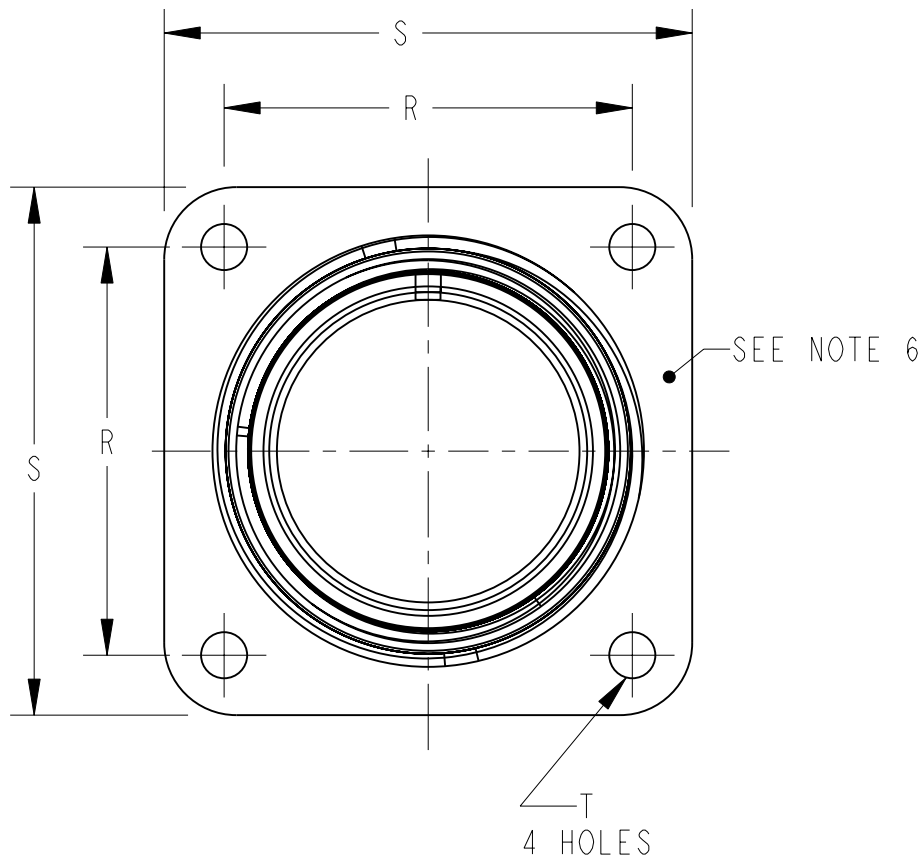
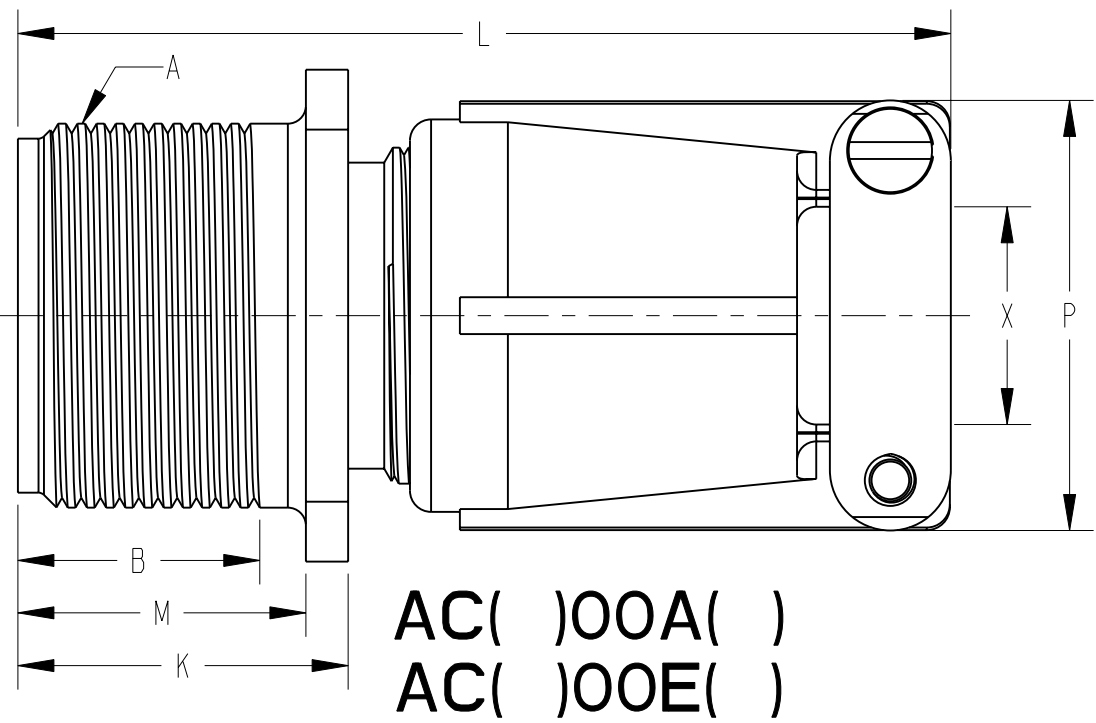
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NEXT ASSEMBLY

UNLESS OTHERWISE SPECIFIED	SPECIFICATIONS	POS	QTY	PART NUMBER	DESCRIPTION	NOTE
		PARTS LIST				
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	AMPHENOL CORPORATION SIDNEY, N.Y. 13838	
	N/A	PREPARED	OLESIK	24-Jun-97	AC THREADED SERIES U	
		CHECKED	DEMATTEO	12/22/97		
		MATERIAL				
	PROCESS SPEC.	APPROVED	OLESIK	12/23/97	AC SERIES G	
	SEE NOTES 6 AND 7, 9-9306	APPROVED	GALLUSSER	12/23/97		
		PRO/ENG INFORMATION ACSERIESPG1				
SIZE	FSCM NO.	DOCUMENT NO.		REV.		
C	77820	AC SERIES		G		
SCALE: NONE		REF: N/A		SHEET 1 OF 20		

FAMCODES|DATA3:ACX TNS|CICS: 1495|

AC()00()



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C	77820	AC SERIES	G
SCALE:NONE	REF:	N/A	SHEET 2 OF 20

4				3				2				1			
AC()00()															

A

E

AD

AF

F

PG

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AC()00()

SIZE	FSCM NO.	DOCUMENT NO.	REV.
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SCALE: 1:3	REF:	N/A	SHEET 4 of 20

D

C

SH

OF

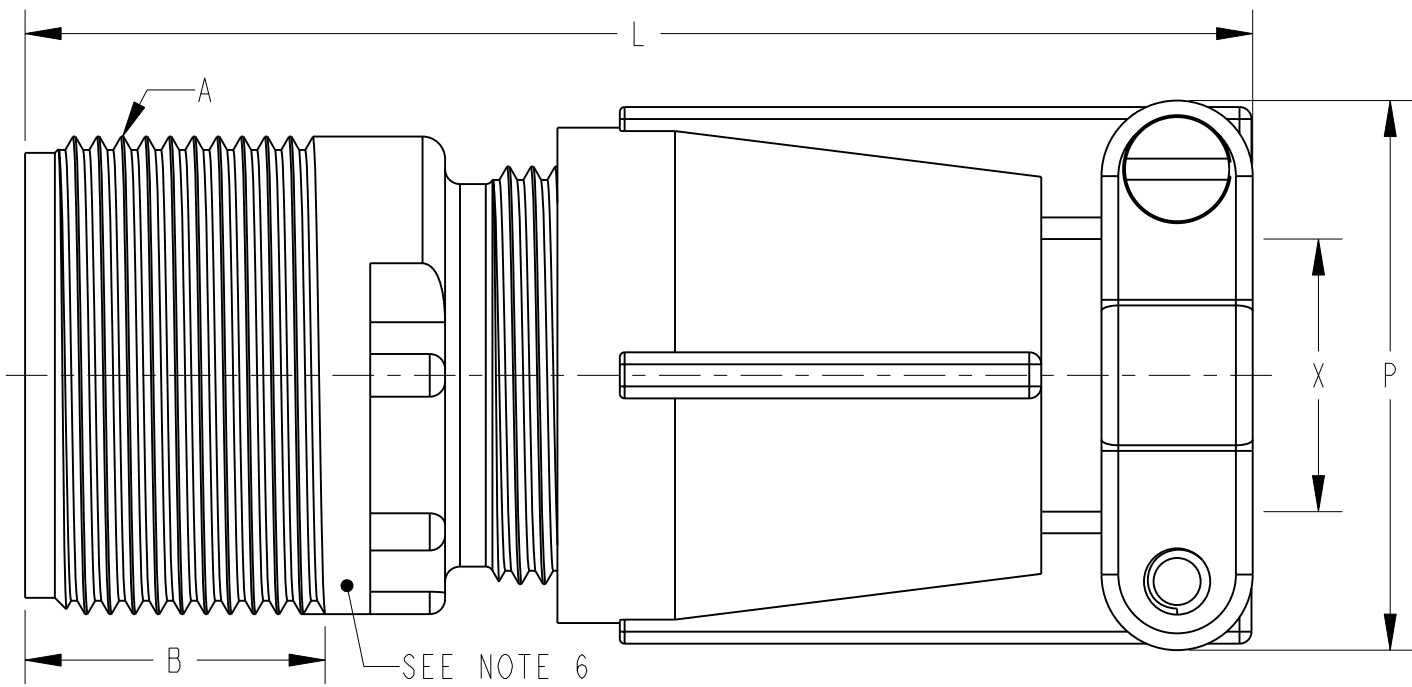
AC SERIES

DOC

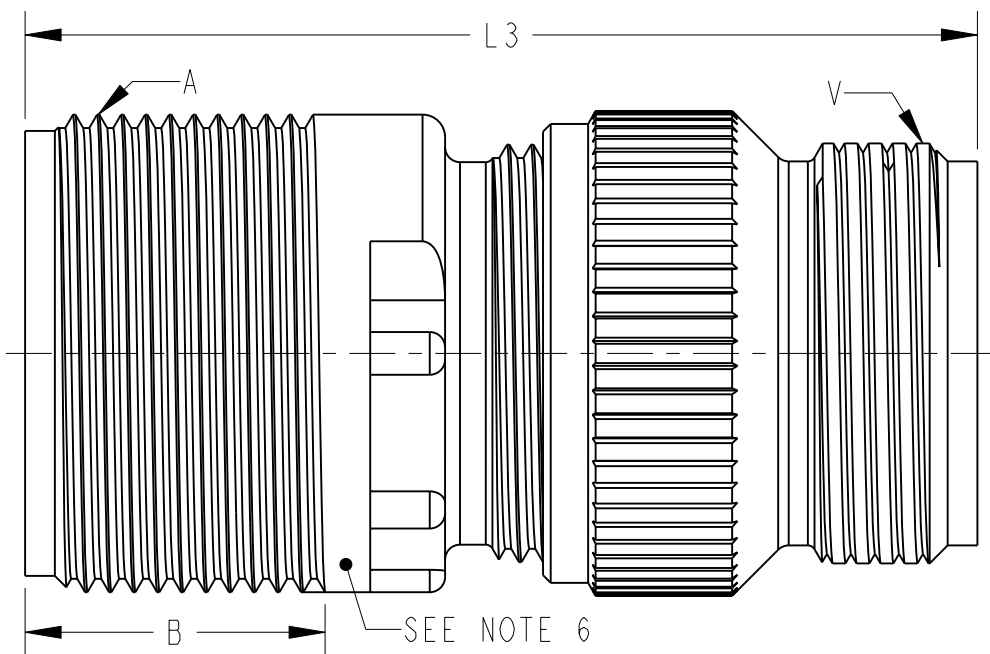
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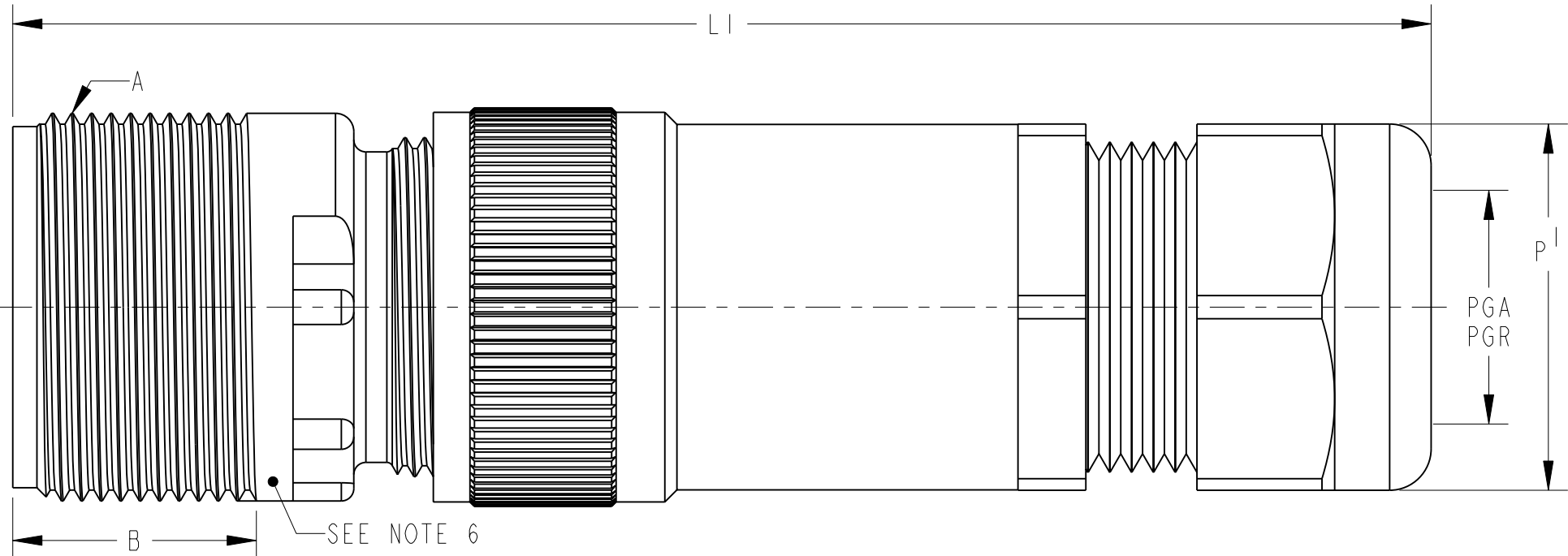
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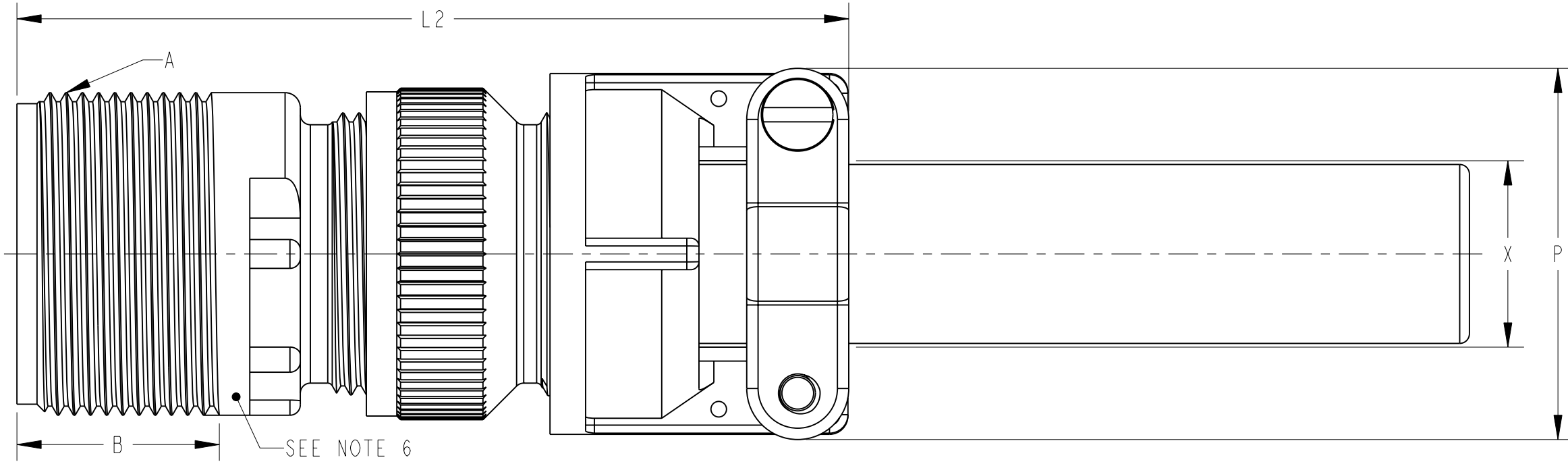
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AC()01E()



AC()01AD()



AC()01PG()



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

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

4

3

2

1

AC()01()

10SL

.6250-24 UNEF

.406

2.129

3.010

2.189

1.468

.894

.750

.150/.320

.070/.240

.6250-24 UNEF

.312

12S

.7500-20 UNEF

.422

2.129

3.010

2.261

1.468

.894

.750

.150/.320

.070/.240

.6250-24 UNEF

.312

12

.7500-20 UNEF

.656

2.524

3.500

2.644

1.468

.894

.750

.150/.320

.070/.240

.6250-24 UNEF

.312

14S

.8750-20 UNEF

.391

2.201

3.188

2.261

1.468

1.083

.880

.190/.390

.110/.280

.7500-20 UNEF

.438

14

.8750-20 UNEF

.625

2.524

3.641

2.644

1.468

1.083

.880

.190/.390

.110/.280

.7500-20 UNEF

.438

16S

1.0000-20 UNEF

.391

2.201

3.265

2.266

1.468

1.181

.940

.230/.470

.190/.350

.8750-20 UNEF

.531

16

1.0000-20 UNEF

.625

2.524

3.718

2.644

1.468

1.181

.940

.230/.470

.190/.350

.8750-20 UNEF

.531

18

1.1250-18 UNEF

.625

2.596

3.718

2.716

1.938

1.300

.940

.230/.470

.190/.350

1.0000-20 UNEF

.625

20

1.2500-18 UNEF

.625

2.654

3.798

2.774

1.844

1.487

1.060

.390/.560

.270/.470

1.1875-18 UNEF

.750

22

1.3750-18 UNEF

.625

2.654

4.080

2.916

1.938

1.487

1.060

.390/.560

.270/.470

1.1875-18 UNEF

.750

24

1.5000-18 UNEF

.625

2.885

4.142

3.051

1.970

1.712

1.060

.390/.560

.270/.470

1.4375-18 UNEF

.938

28

1.7500-18 UNS

.625

2.885

4.291

3.140

2.189

1.712

1.300

.510/.710

.350/.630

1.4375-18 UNEF

.938

32

2.0000-18 UNS

.625

2.943

4.643

3.184

2.261

2.063

1.650

.700/.980

.510/.790

1.7500-18 UNS

1.250

36

2.2500-16 UN

.625

2.943

4.643

3.245

2.219

2.283

1.650

.700/.980

.510/.790

2.0000-18 UNS

1.375

40

2.5000-16 UN

.625

3.068

5.635

3.670

2.188

2.688

1.650

.700/.980

.510/.790

2.2500-16 UN

1.625

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SIZE

C

FSCM NO.

77820

DOCUMENT NO.

AC SERIES

REV.

G

SCALE:NONE

REF:

N/A

SHEET 6 OF 20

4

3

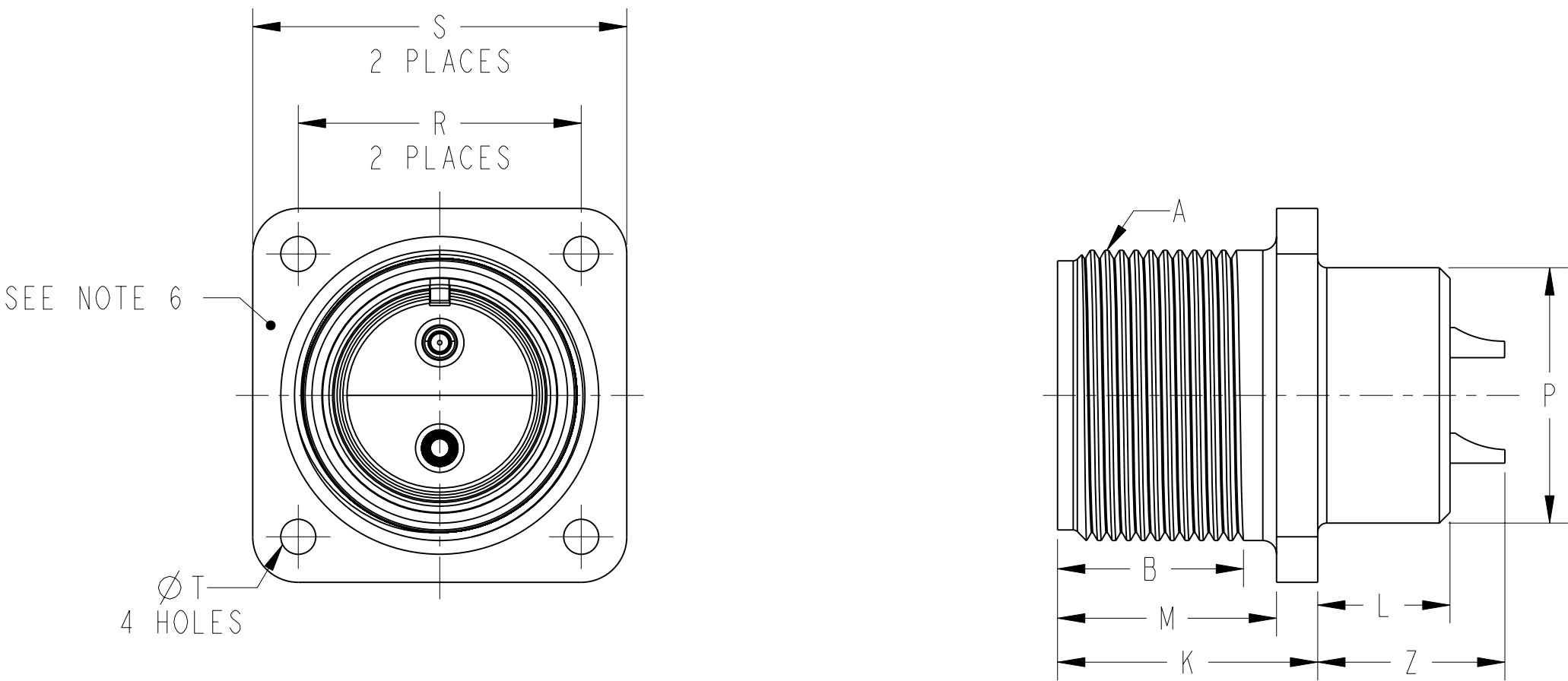
2

1

FORMAT: CUP REV:22-JULY-92

TAB.

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.

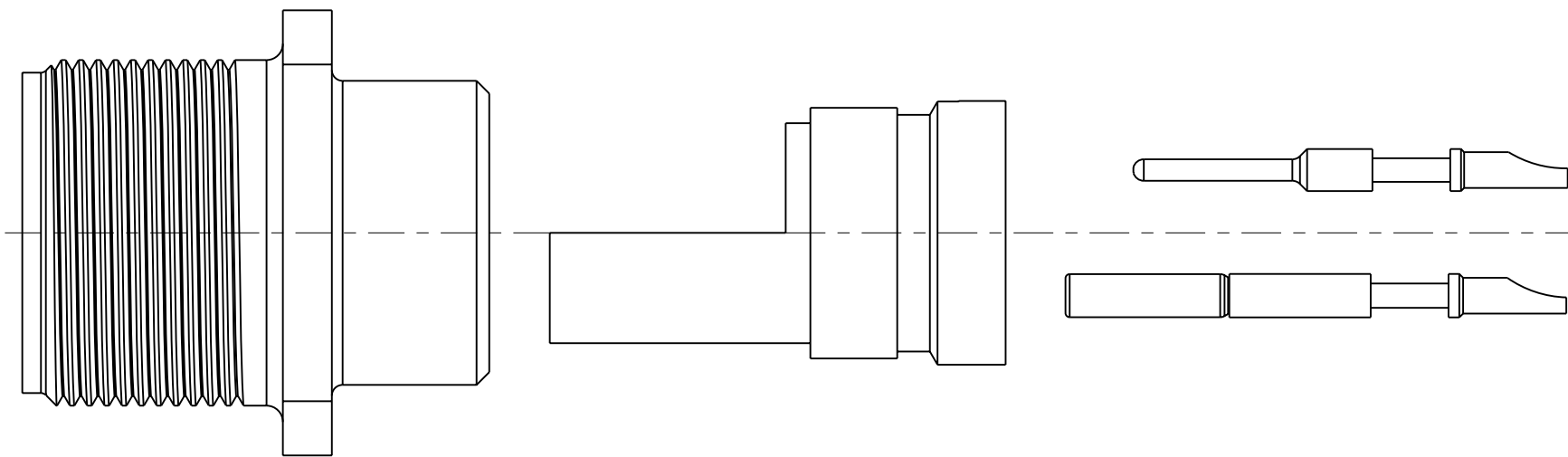
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** INCREASE Z DIMENSION BY .312 FOR SIZE "0" CONTACT ONLY.

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SCALE:NONE	REF: N / A	SHEET 8 OF 20	

AC()02()



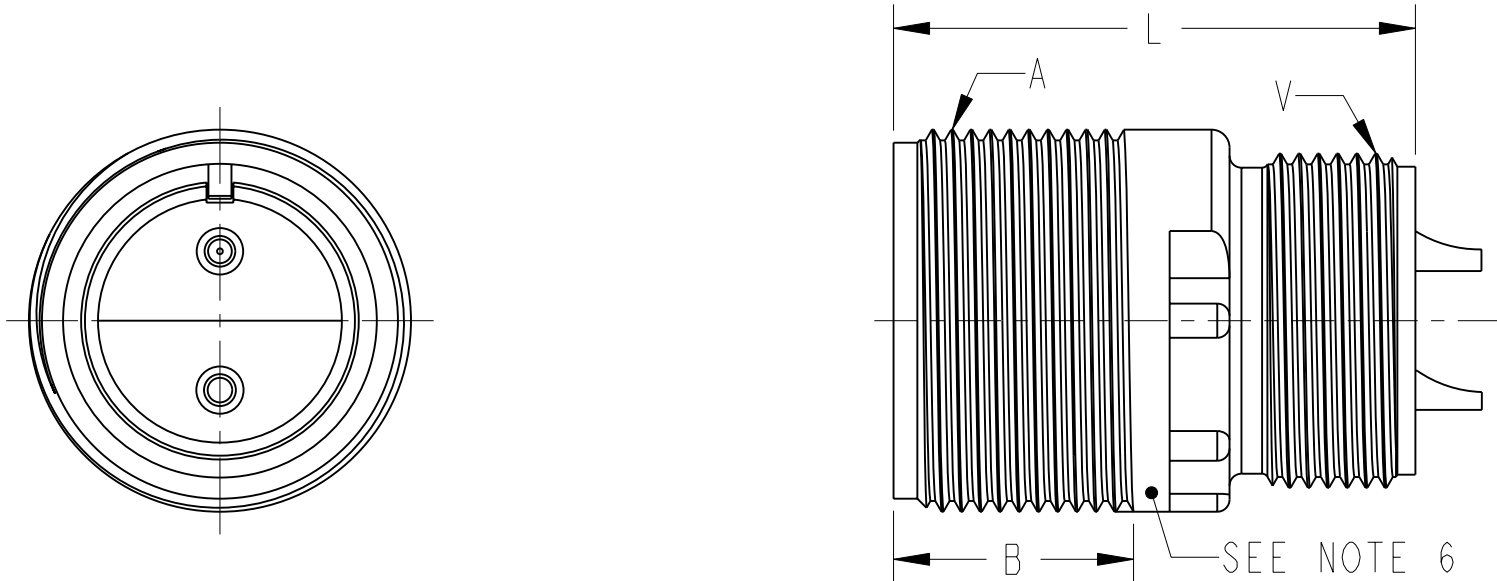
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SIZE	FSCM NO.	DOCUMENT NO.	REV.
C	77820	AC SERIES	G
SCALE:NONE	REF:	N / A	SHEET 9 OF 20

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

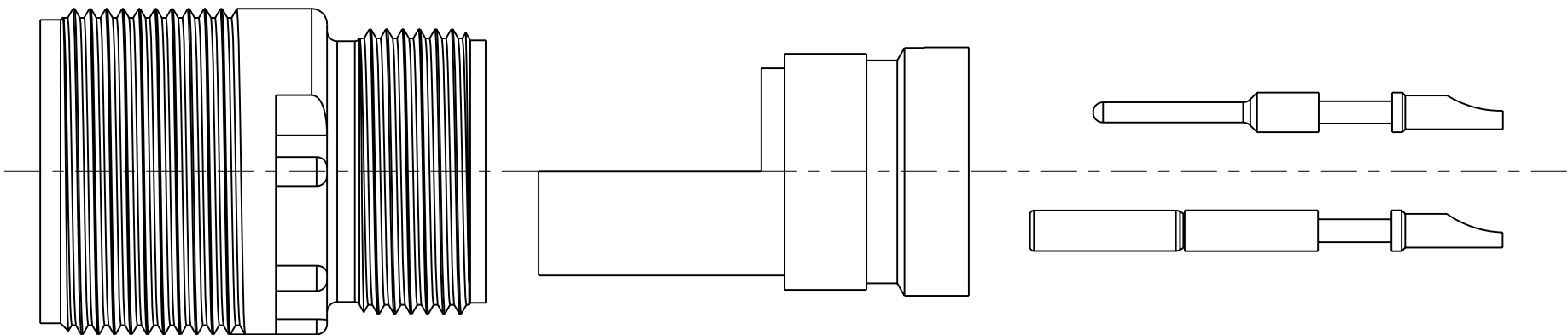
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SCALE: NONE	REF: N / A	SHEET 10 OF 20	

AC()04()



SEE SHEET 19.

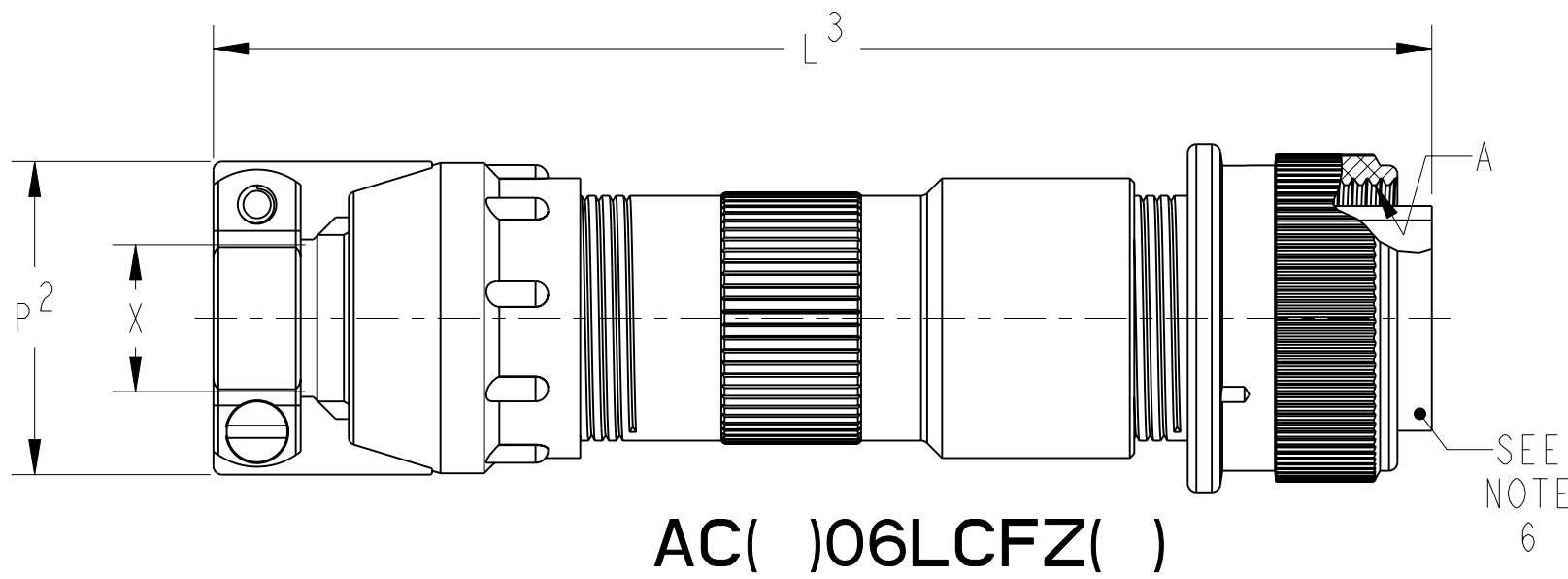
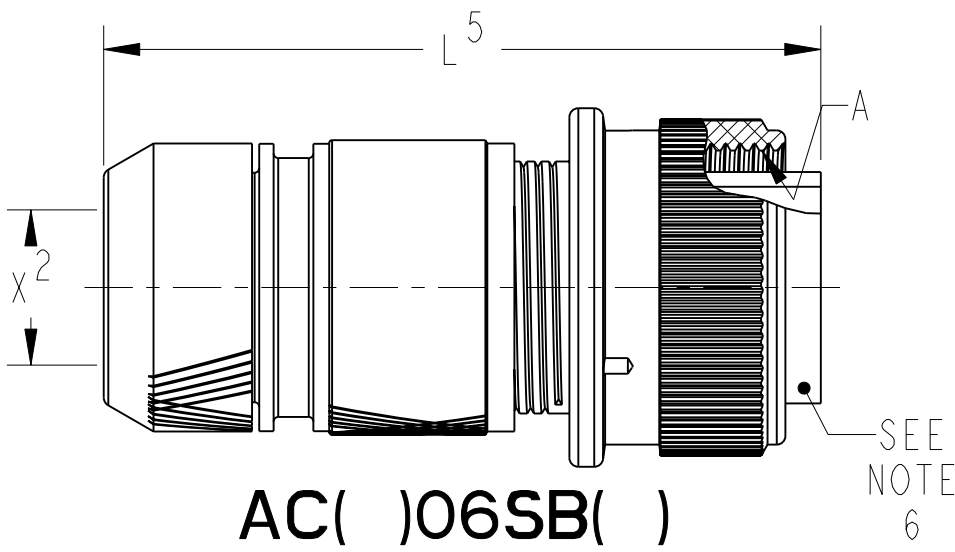
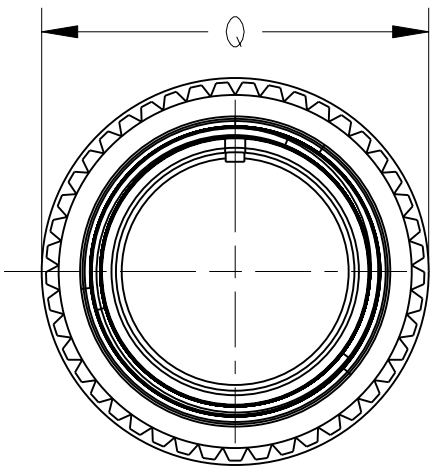
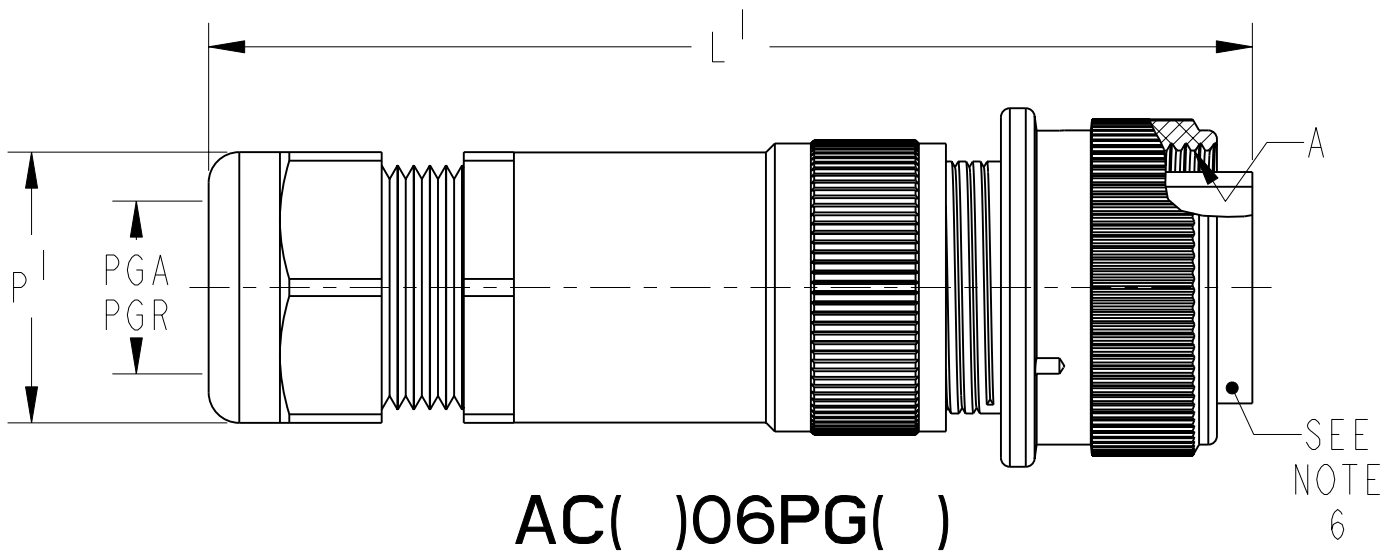
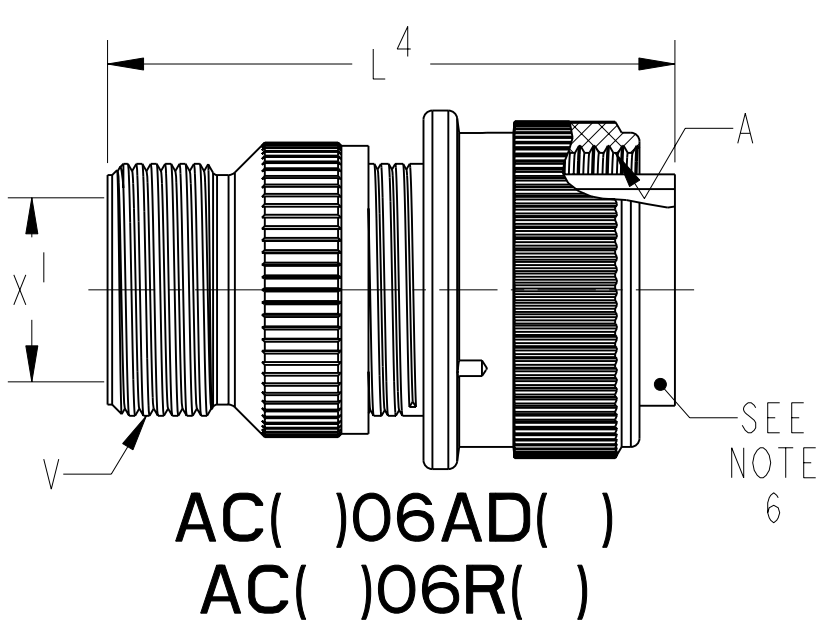
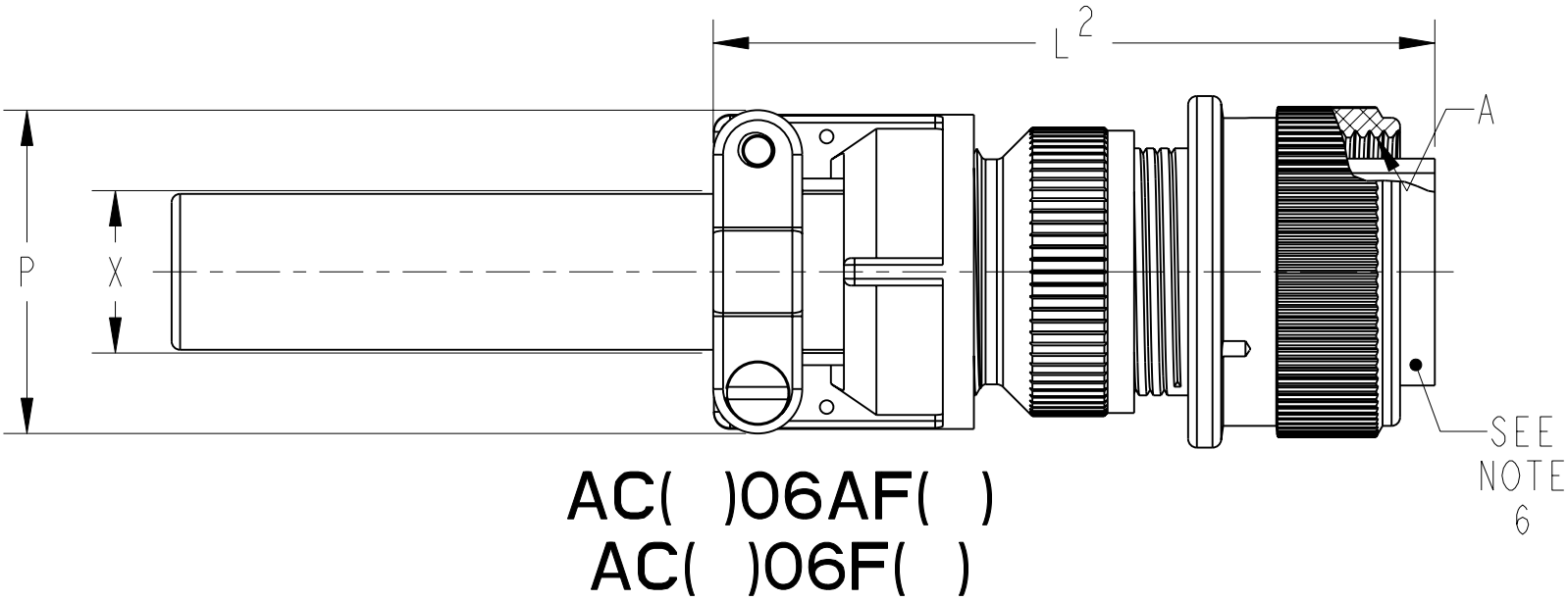
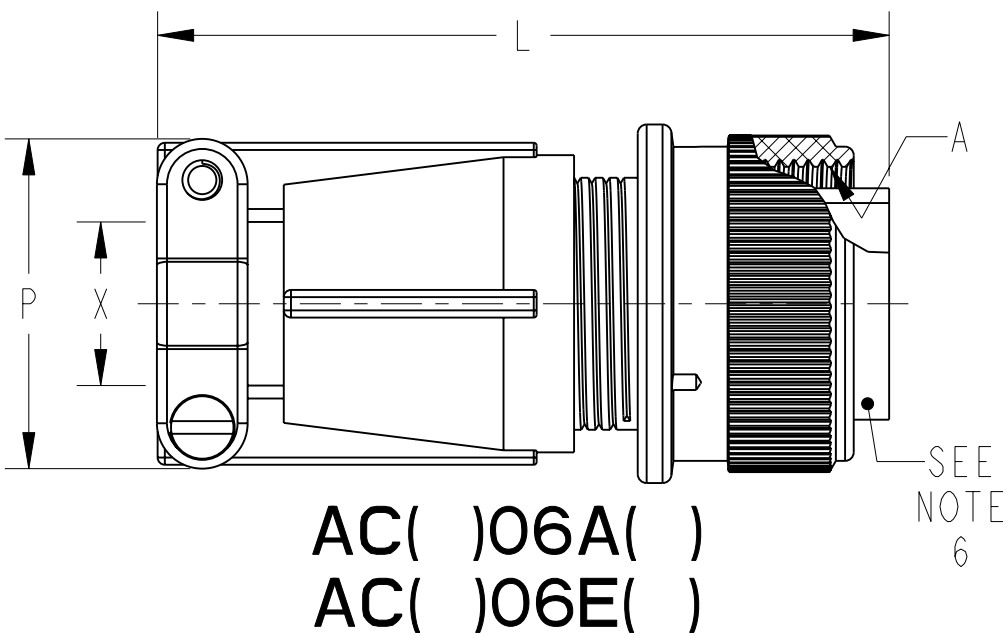
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SIZE C	FSCM NO. 77820	DOCUMENT NO. AC SERIES	REV. G
SCALE: NONE	REF: N / A	SHEET 11 OF 20	

TAB

AC()06()



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C	77820	AC SERIES	G
SCALE:NONE	REF:	N/A	SHEET 12 OF 20

D

C

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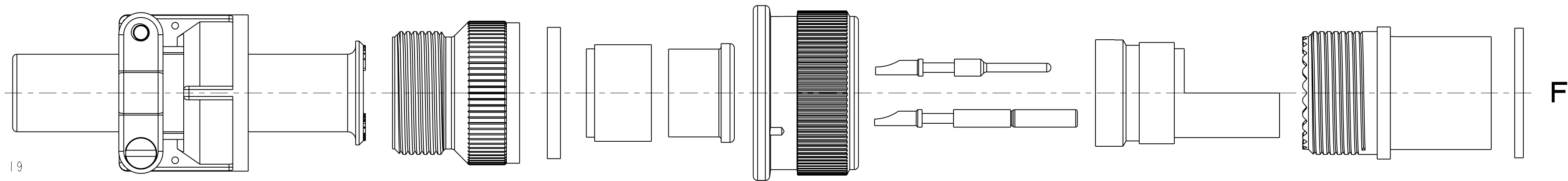
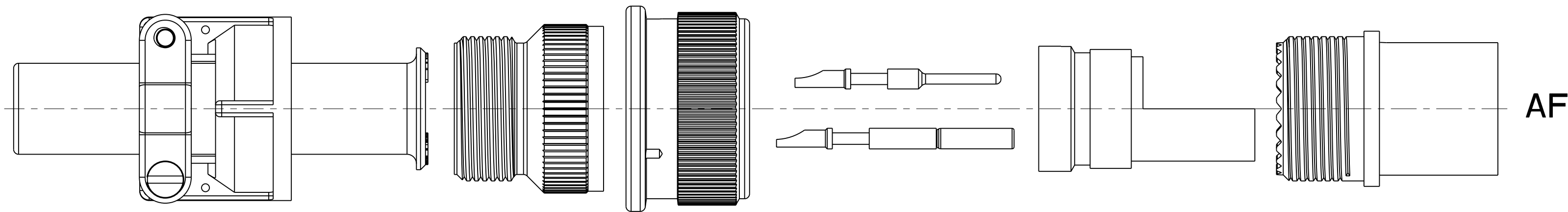
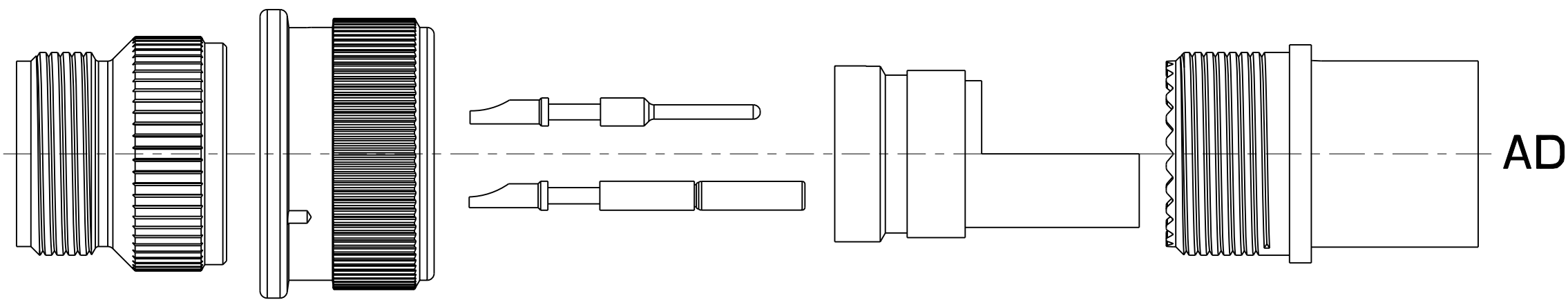
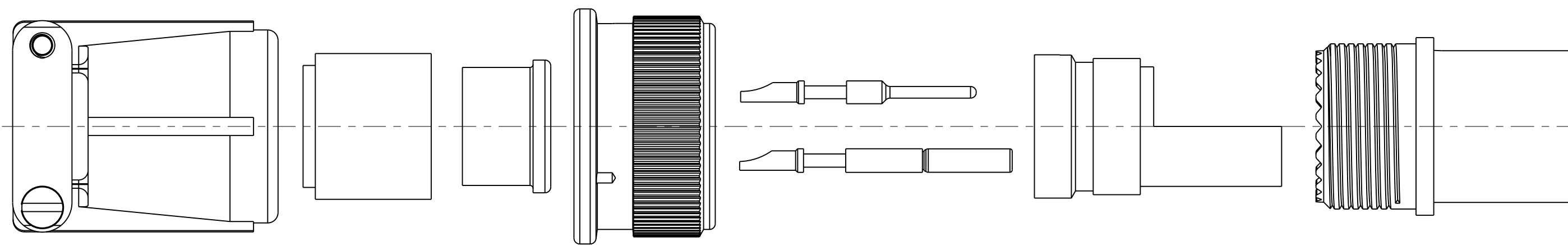
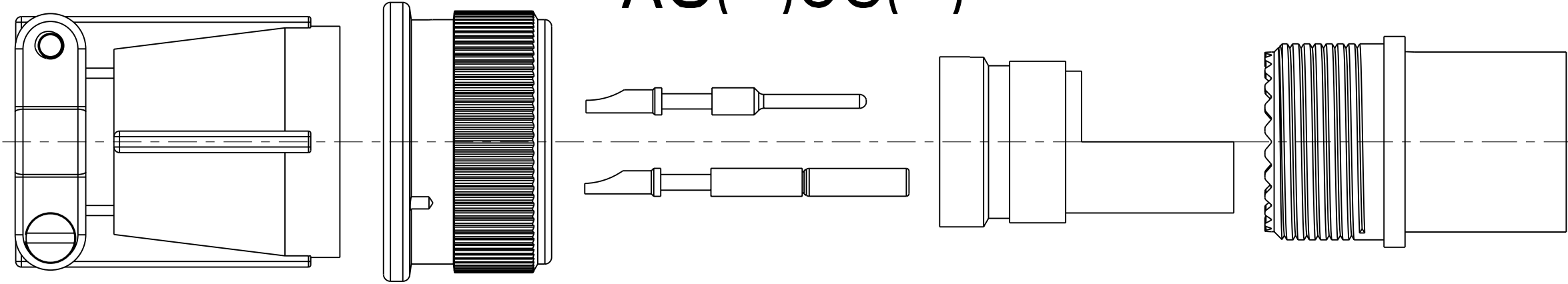
54

AC SERIES

DOC NO

A

AC()06()



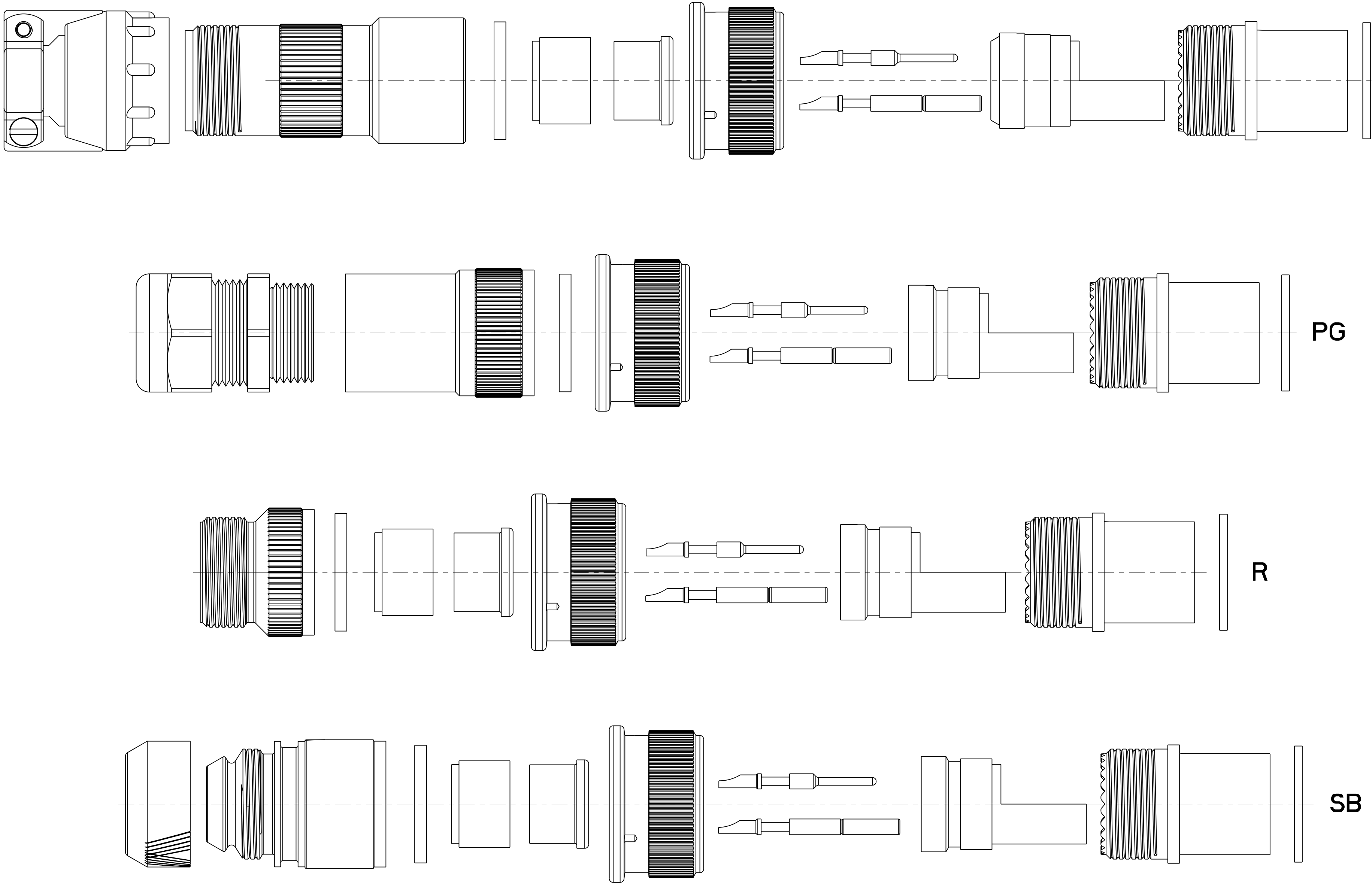
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SIZE	FSCM NO.	DOCUMENT NO.	REV.
C	77820	AC SERIES	G
SCALE: 1:0	REF:	N/A	SHEET 14 OF 20

AC()06()



LCFZ

PG

R

SB

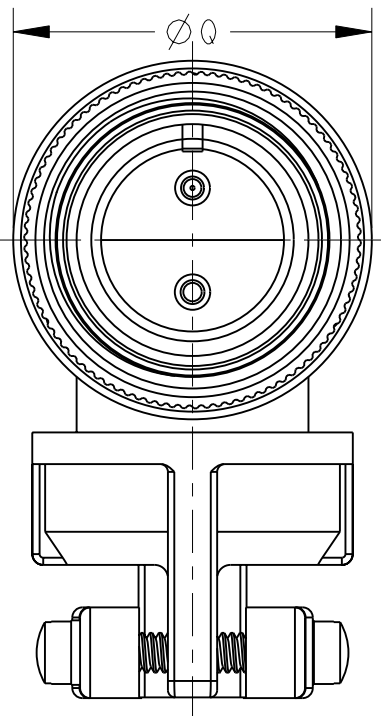
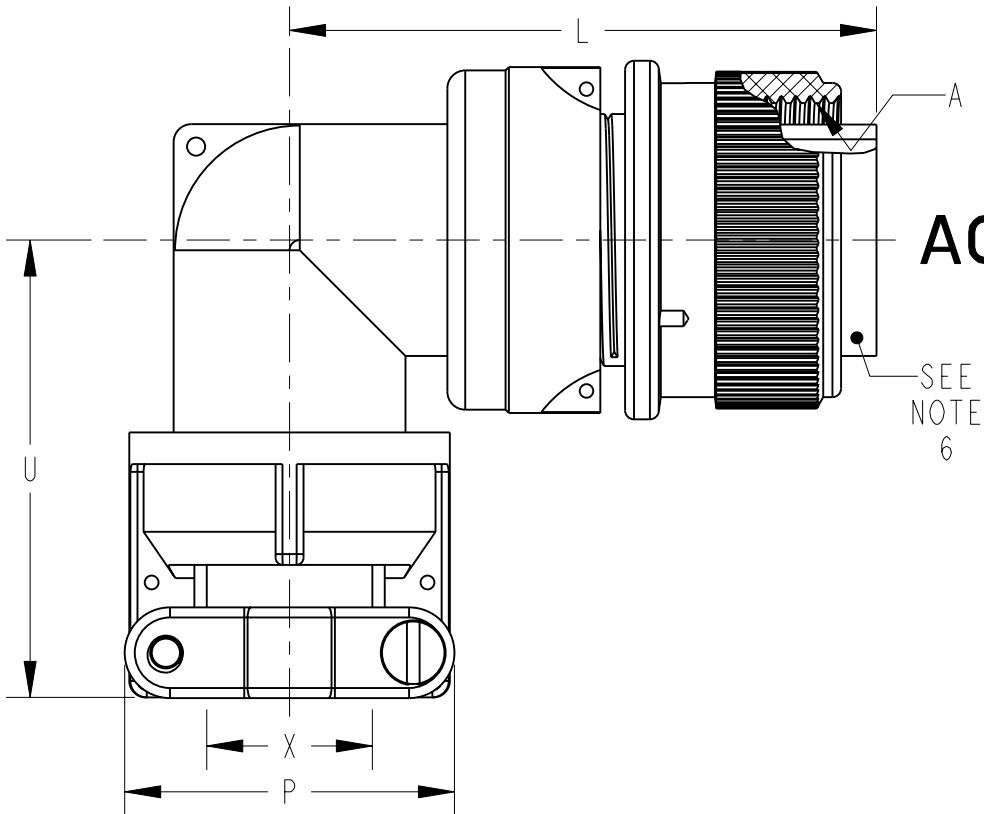
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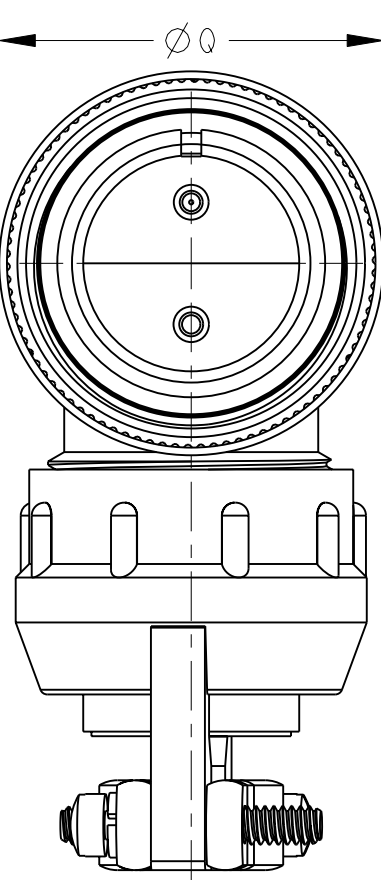
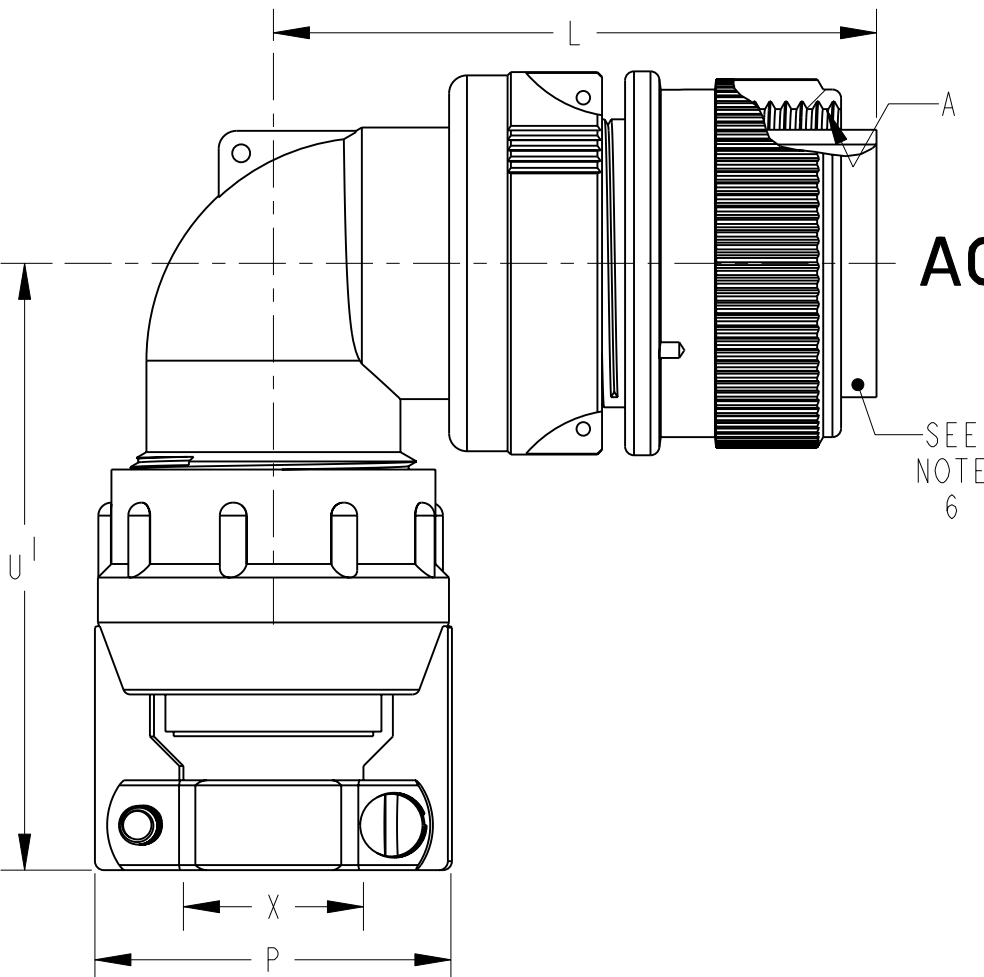
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SCALE: 1.0	REF: N/A	SHEET 15 OF 20	

AC()08()

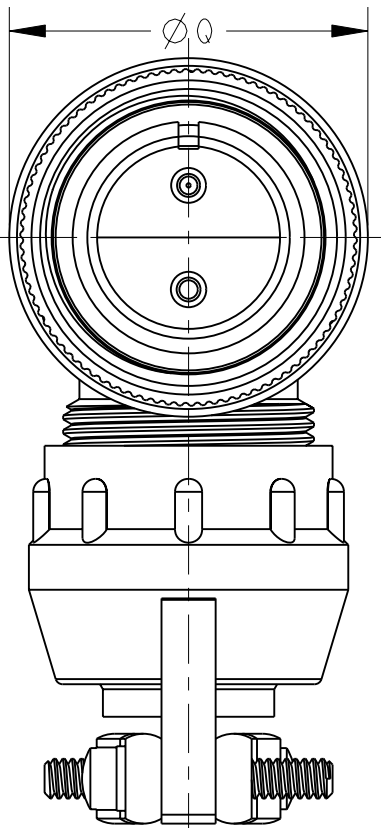
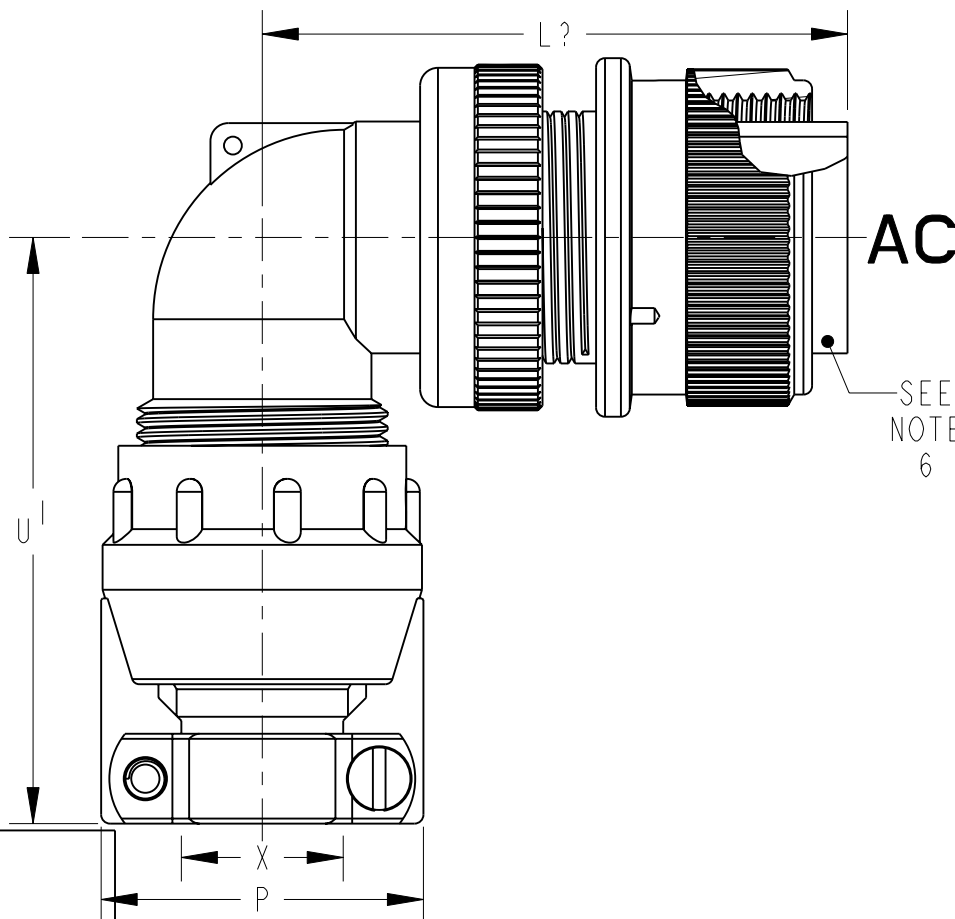


AC()08A()

AC()08E()



AC()08CF()



SEE SHEET 19

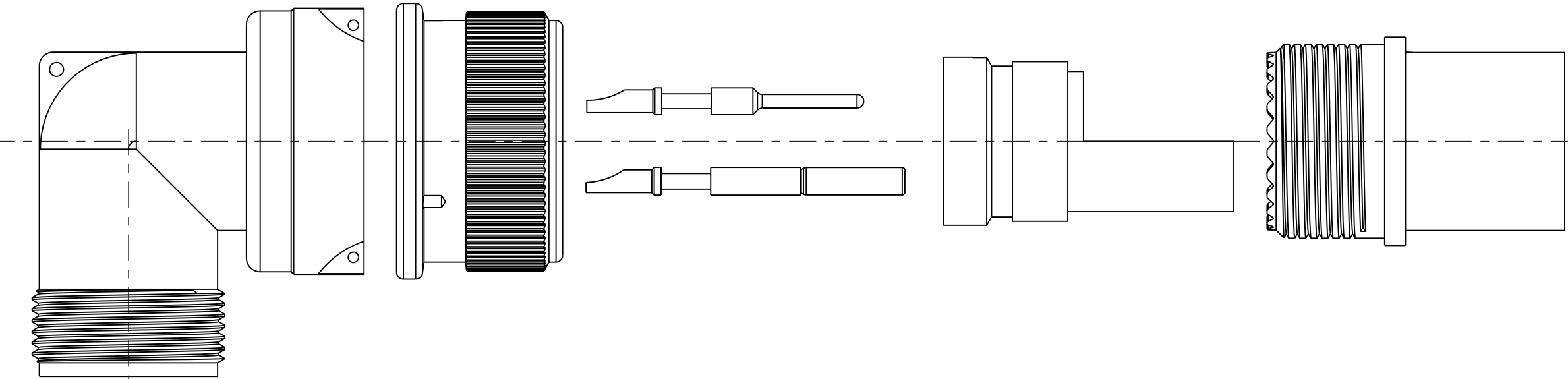
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C	77820	AC SERIES	G
SCALE:NONE	REF:	N/A	SHEET 16 OF 20

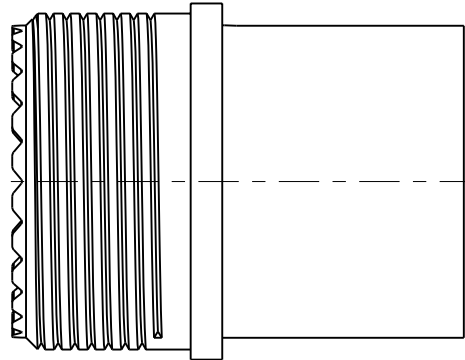
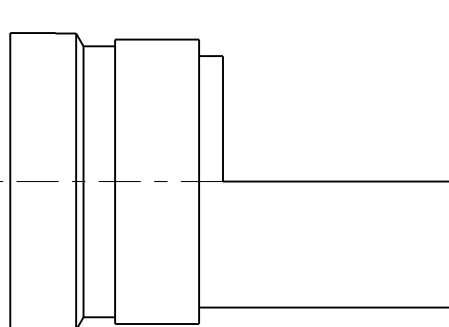
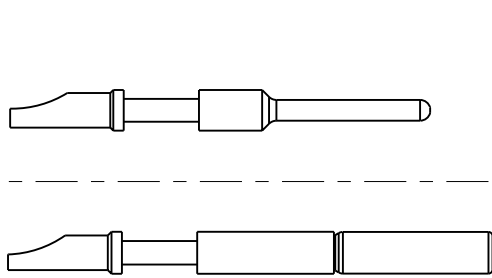
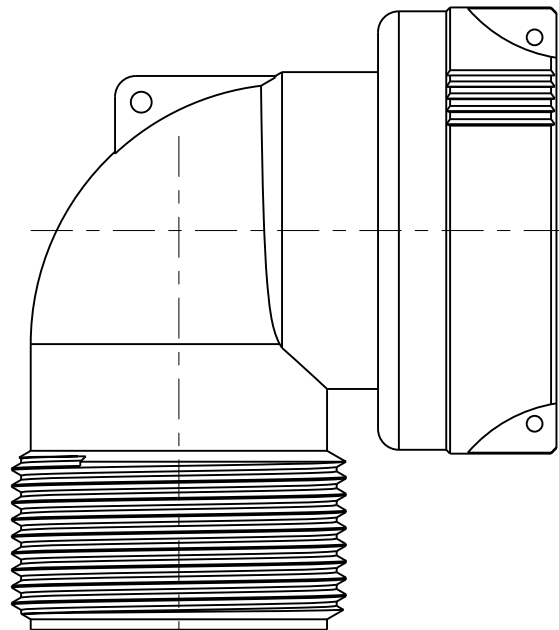
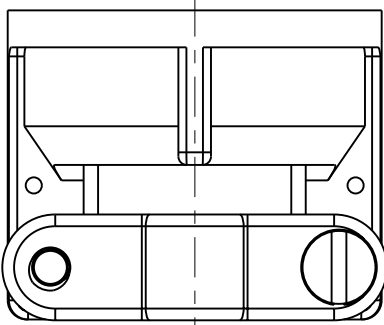
AC()08()

D



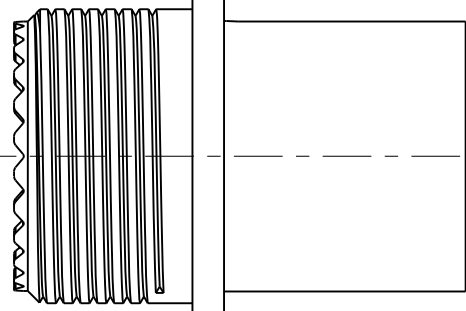
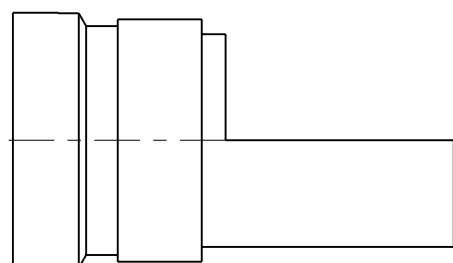
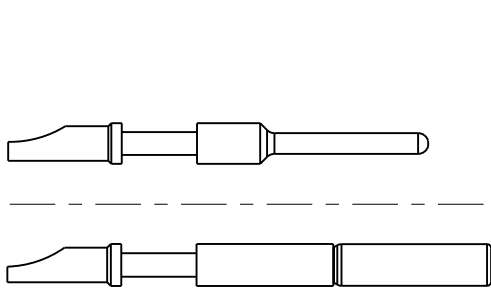
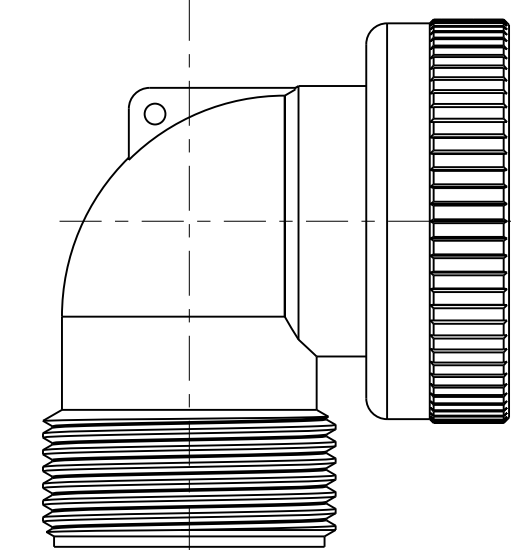
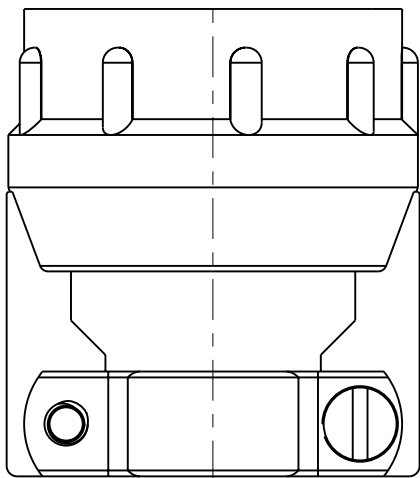
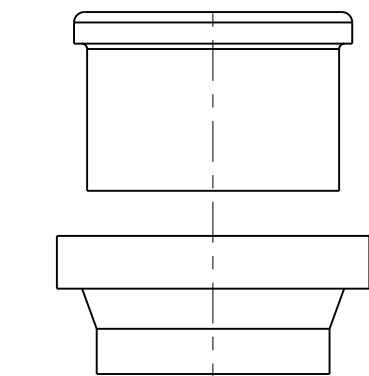
A

C



E

B



CF

A

SEE SHEET 19.

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

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().

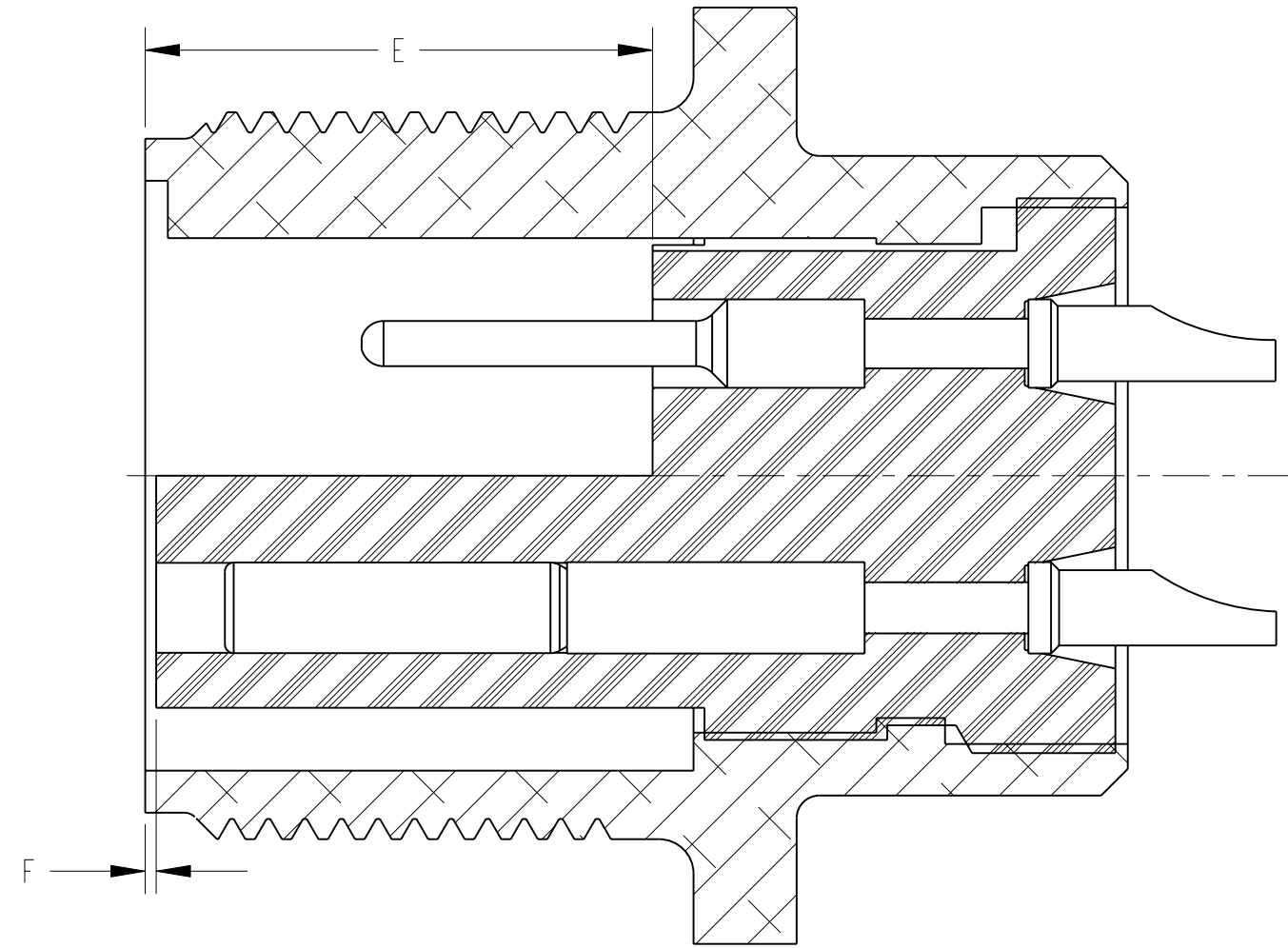
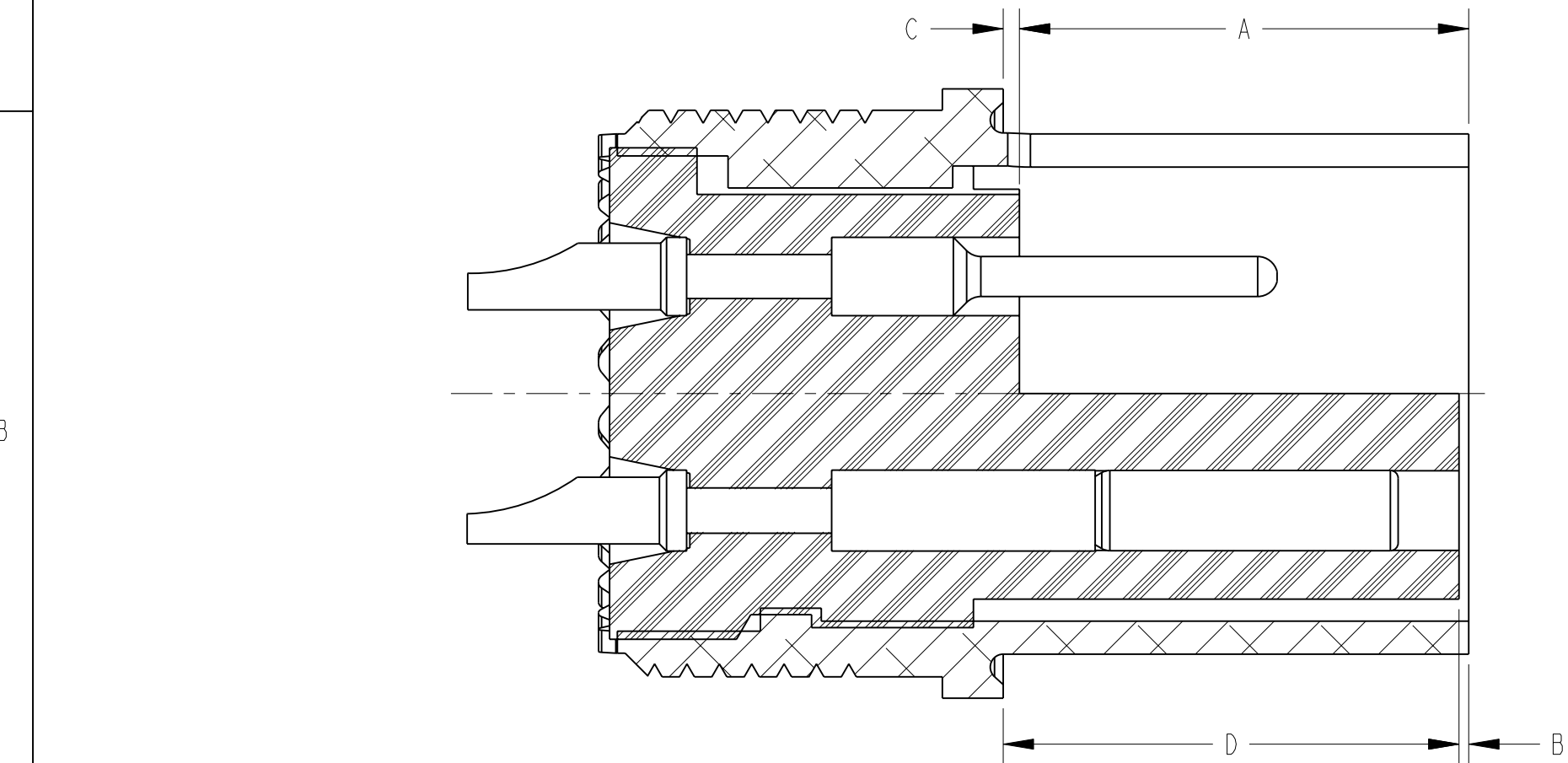
8. FOR ACC()E, ACC()F, ACC()PG, ACC()R, AND ACC()LCFZ, CONTACTS MUST BE BONDED IN BY CUSTOMER WITH A SUITABLE EPOXY.

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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										
12	13	.679		.679		.719	.672					
14S	14	.492		.492		.531	.484					
14	15	.679		.679		.719	.672					
16S	16	.492		.492		.531	.484					
16	17	.679										
18	18											
20	20			.000	.047	.000						
22	22											
24	24											
28	28			.719	.672							
32	32											
36	36											
40	40											
44	44											
48	48											



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D

C

B

A