

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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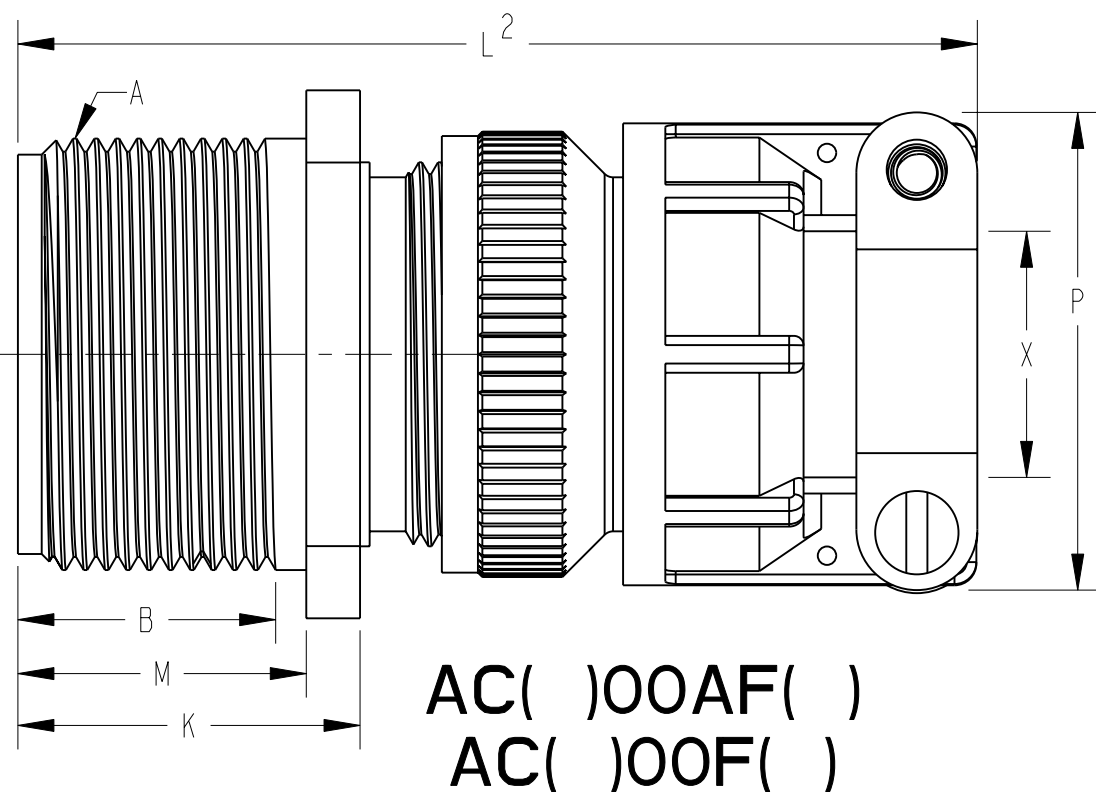
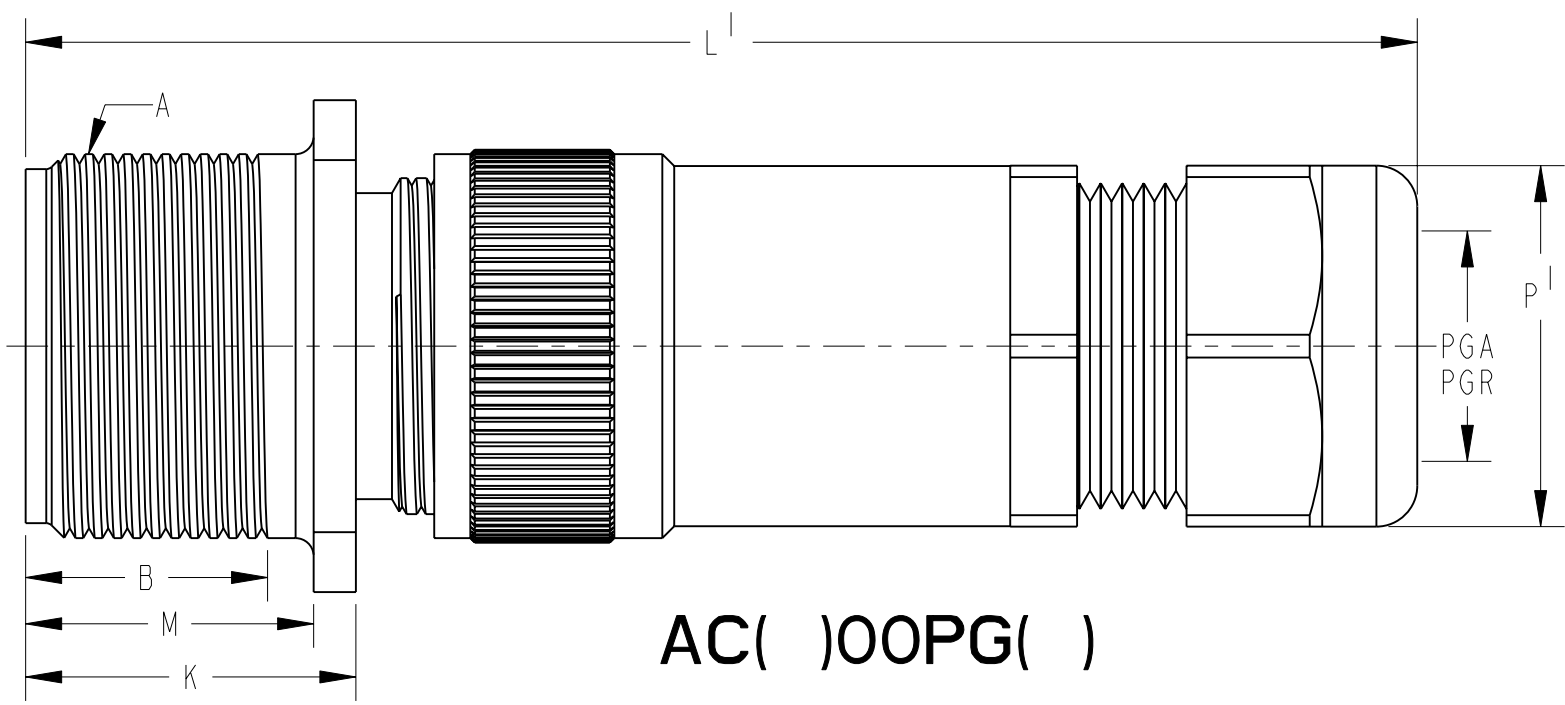
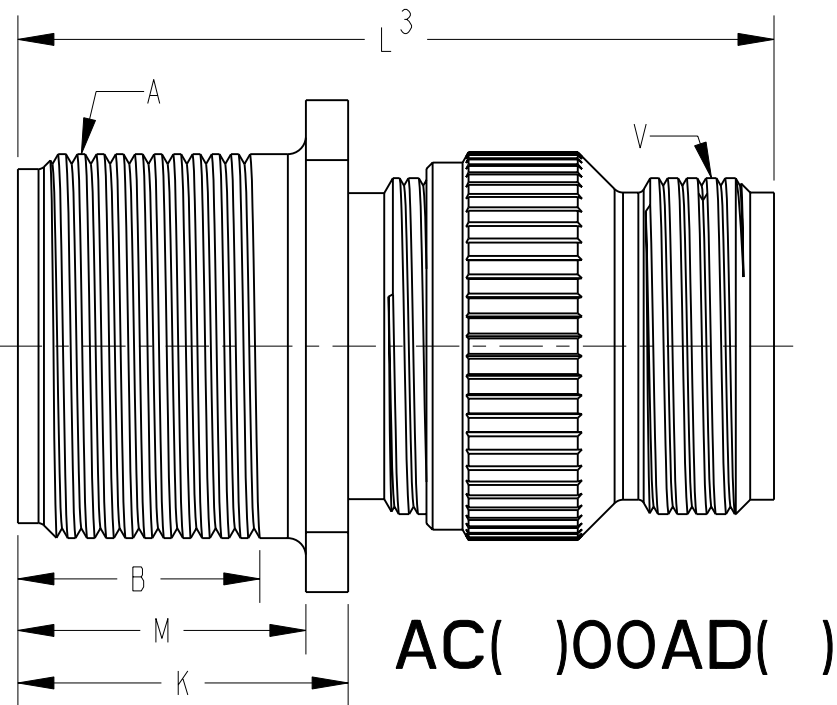
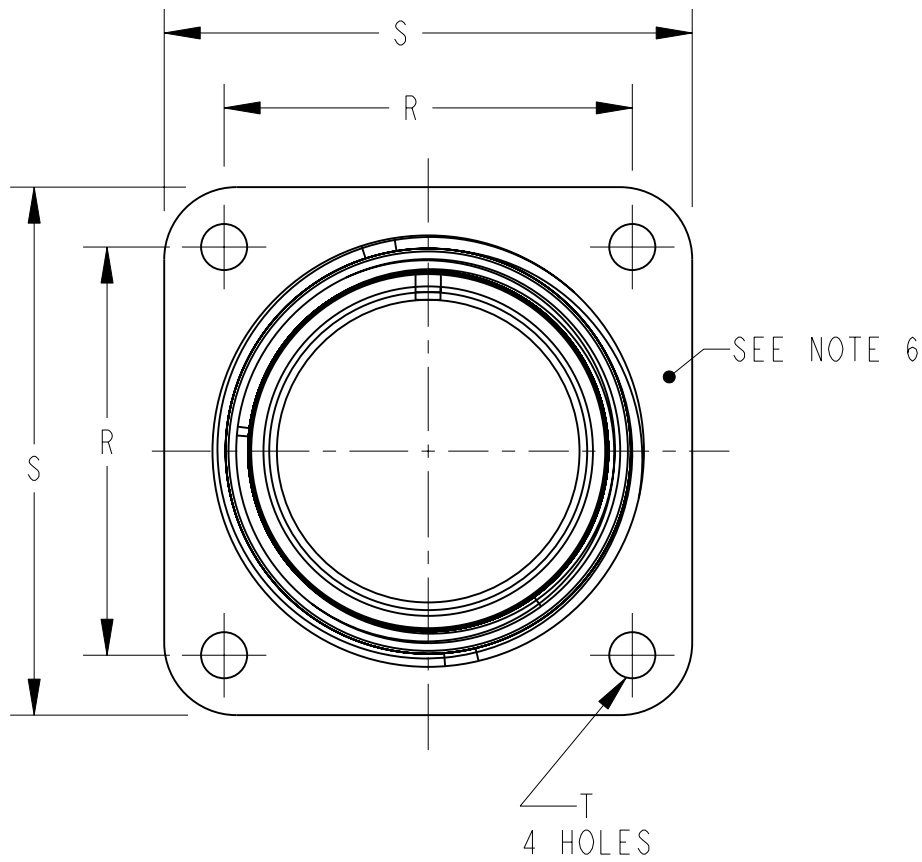
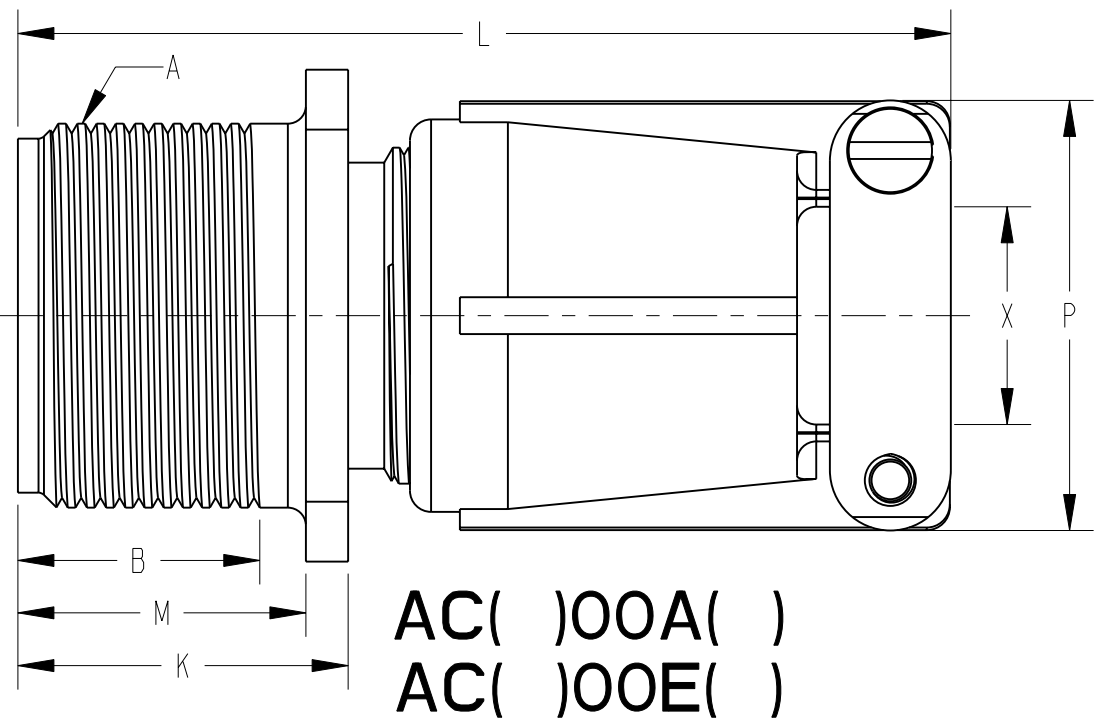
SEE SHEET 19

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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 C 77820 SCALE: NONE REF: N/A SHEET 1 OF 20	
	SEE NOTES 6 AND 7, 9-9306	APPROVED	GALLUSSER	12/23/97		
		PRO/ENG INFORMATION ACSERIESPG1				

AC()00()



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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.

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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.

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AC()00()

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

D

C

SH

OF

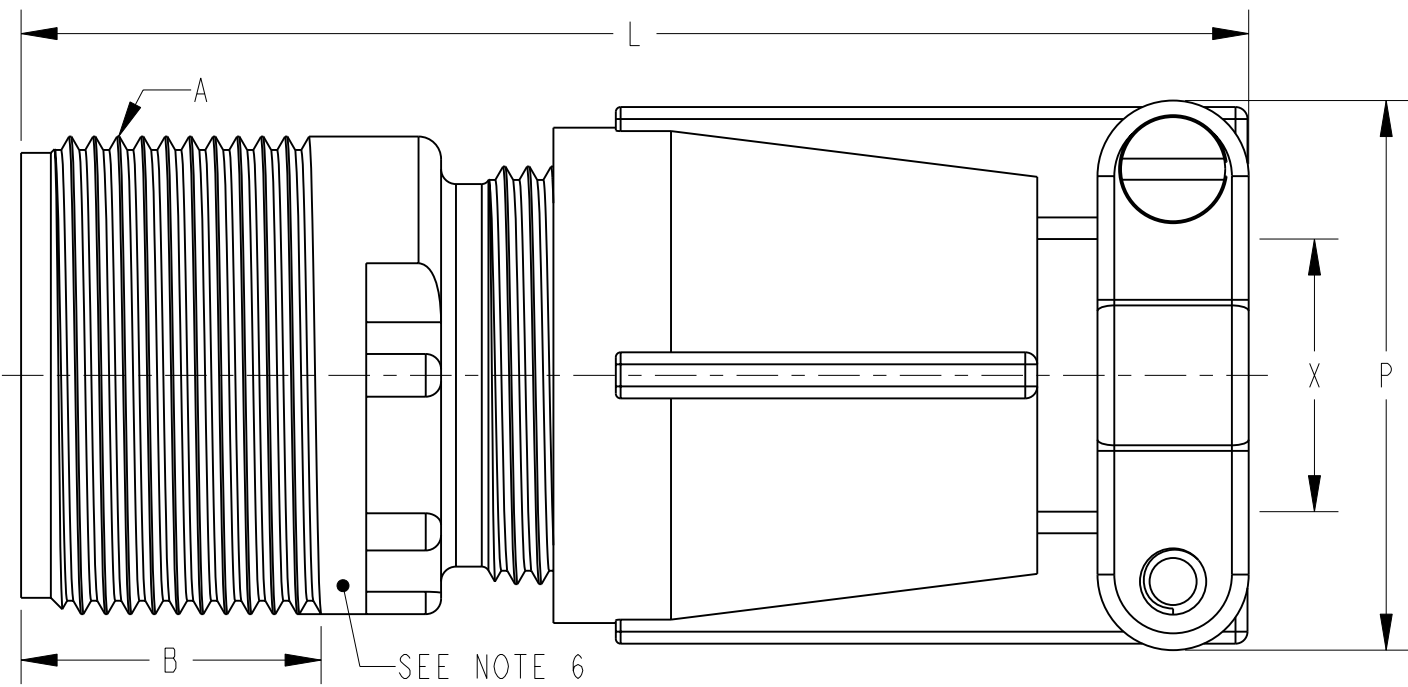
AC SERIES

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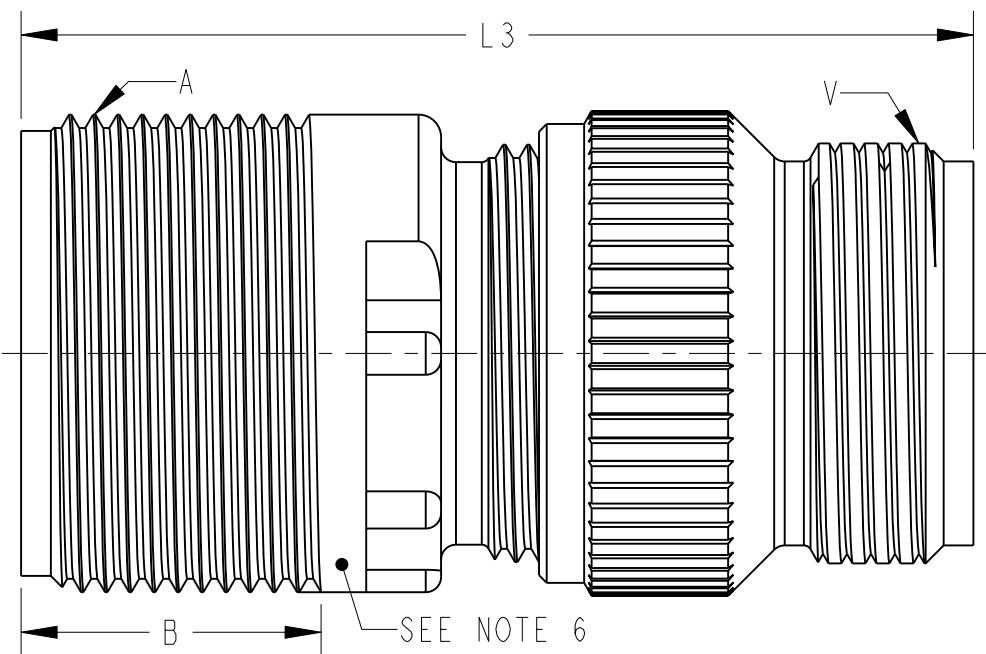
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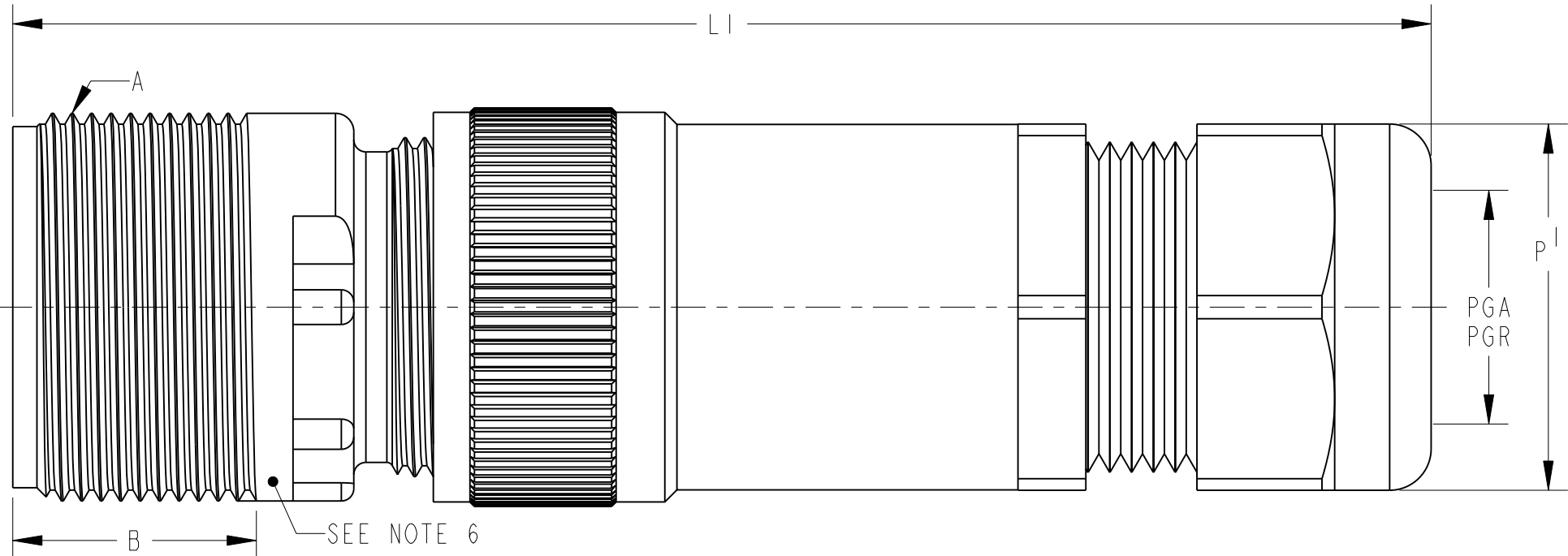
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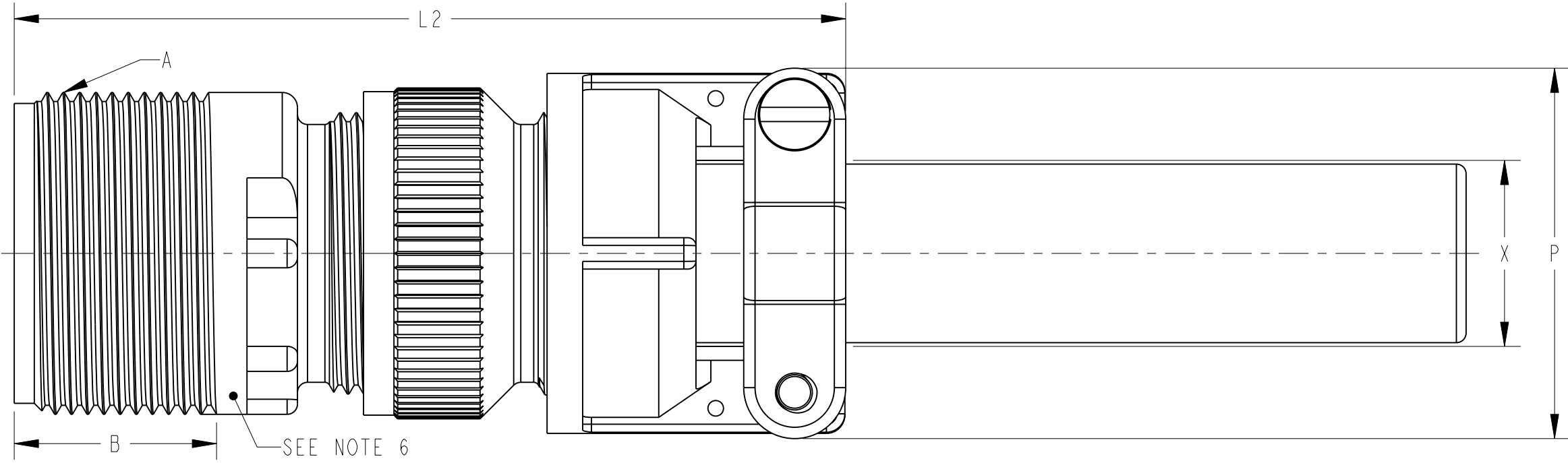
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AC()01E()



AC()01AD()



AC()01PG()



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

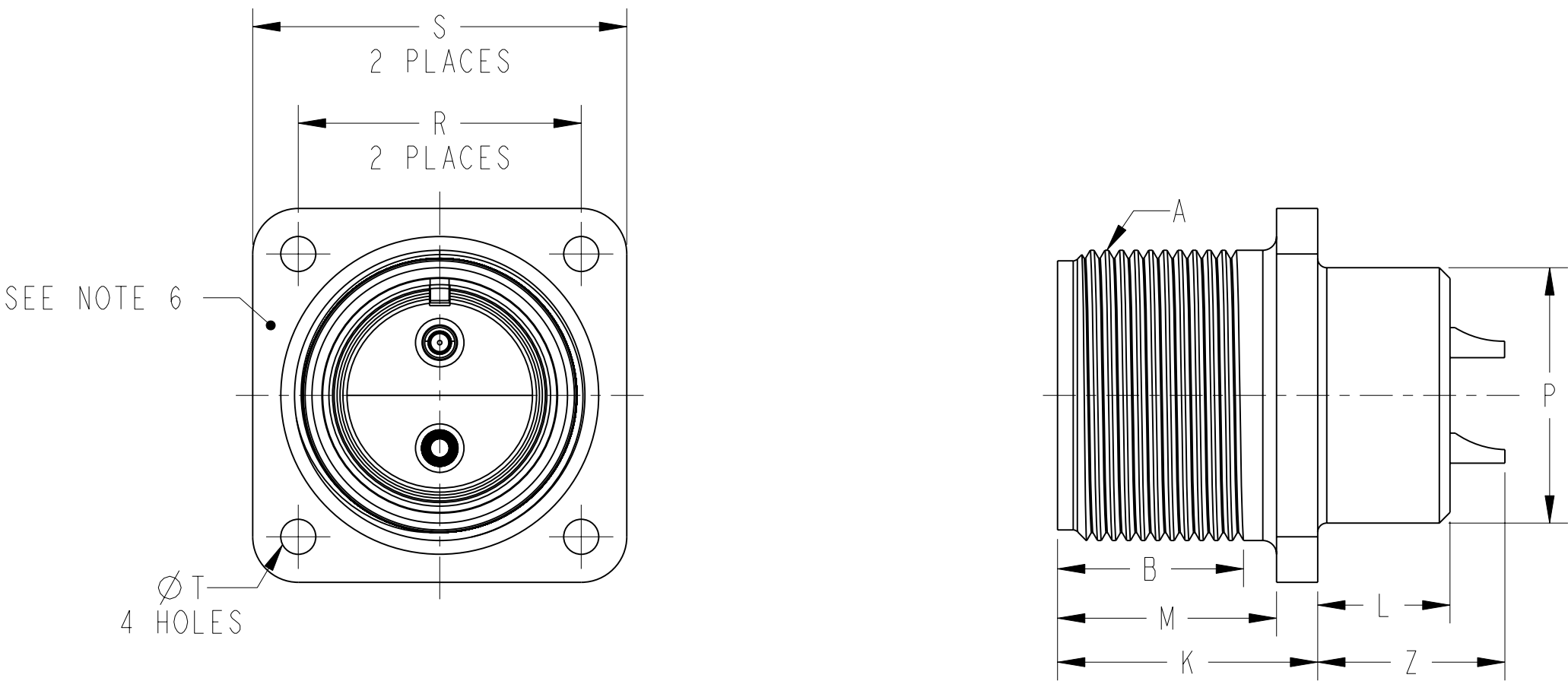
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SIZE	FSCM NO.	DOCUMENT NO.	REV.
C	77820	AC SERIES	G
SCALE:NONE	REF:	N/A	SHEET 5 OF 20

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.

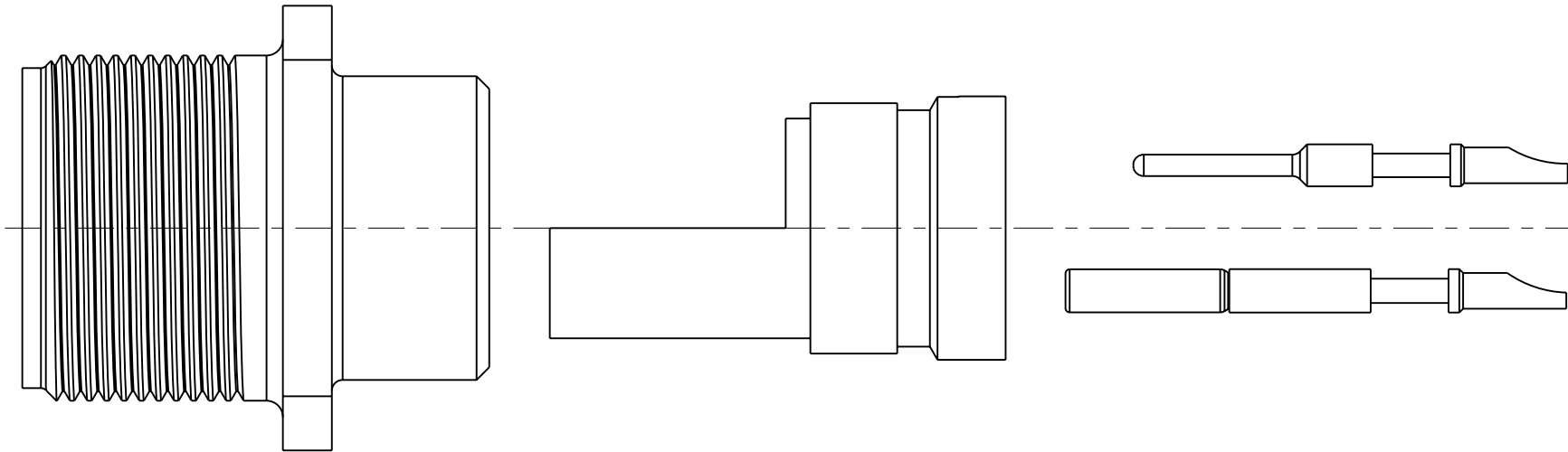
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** INCREASE Z DIMENSION BY .312 FOR SIZE "0" CONTACT ONLY.

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

AC()02()



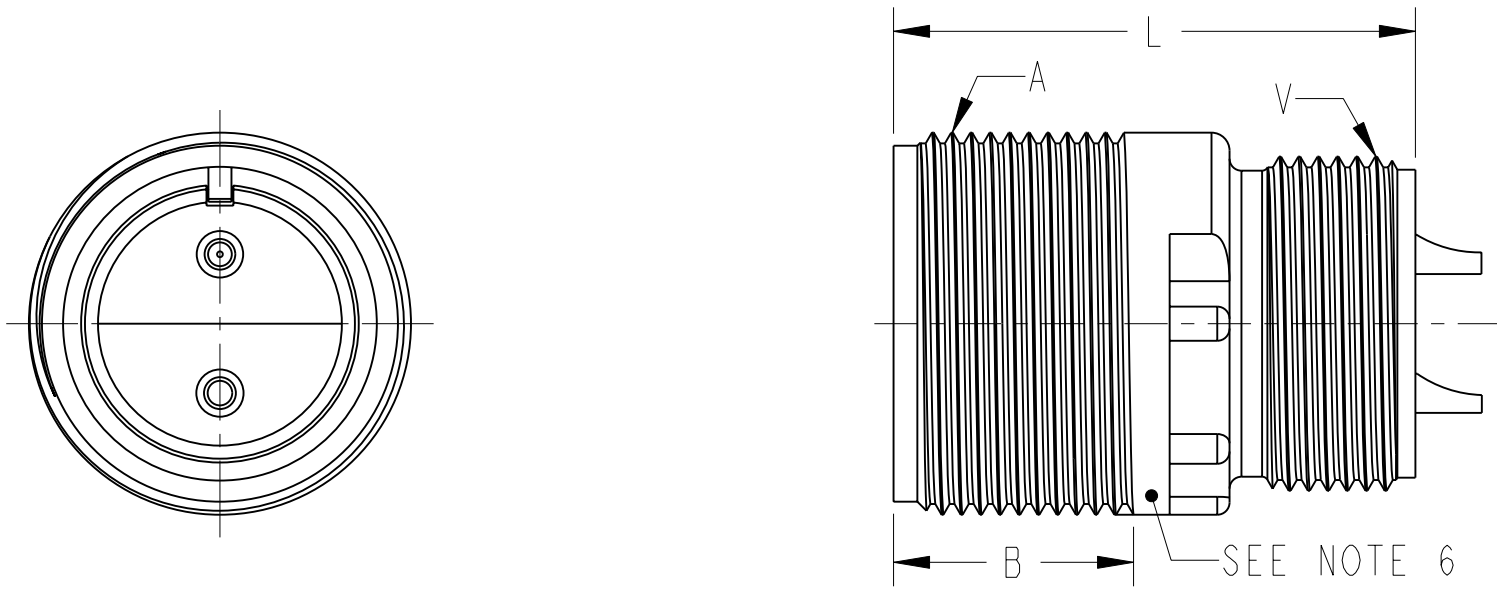
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SIZE C	FSCM NO. 77820	DOCUMENT NO. AC SERIES	REV. G
SCALE:NONE	REF: N/A	SHEET 9 OF 20	

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

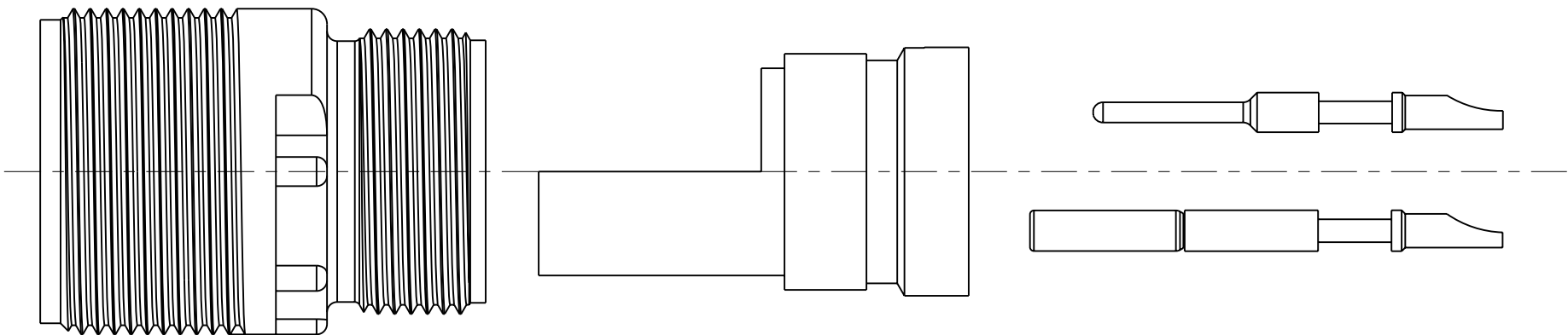
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SIZE C	FSCM NO. 77820	DOCUMENT NO. AC SERIES	REV. G
SCALE: NONE	REF: N / A	SHEET 10 OF 20	

AC()04()



SEE SHEET 19.

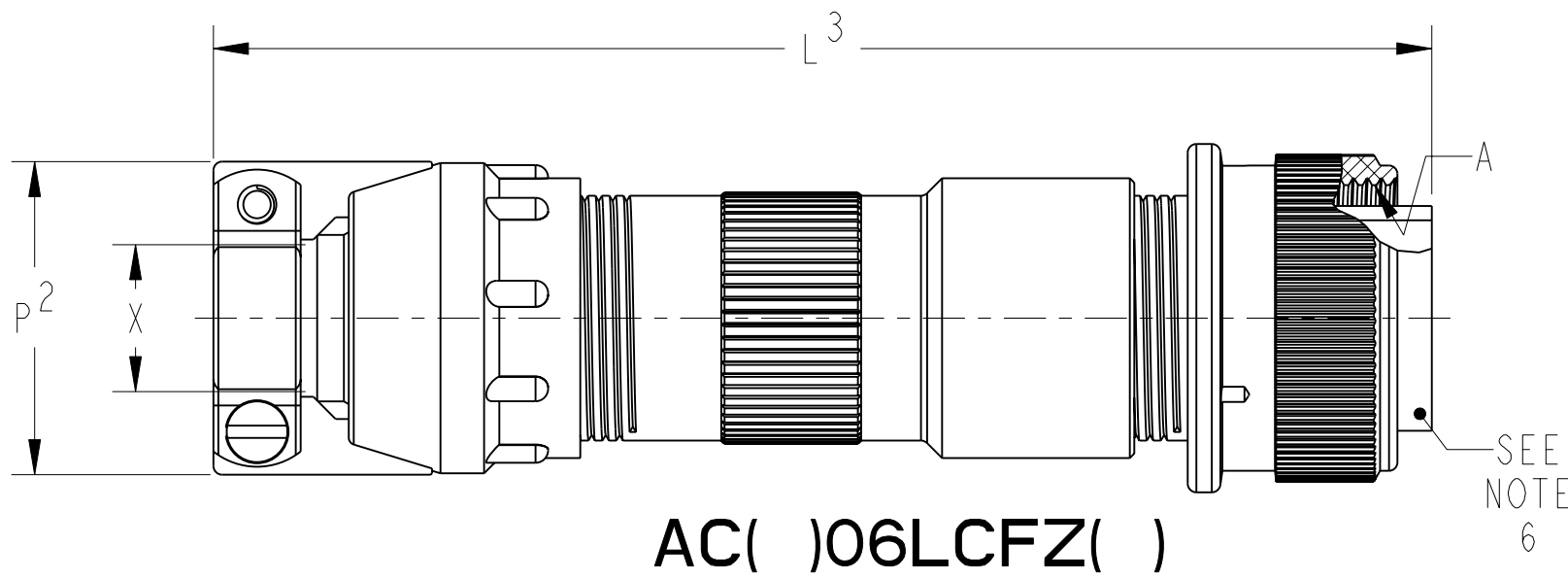
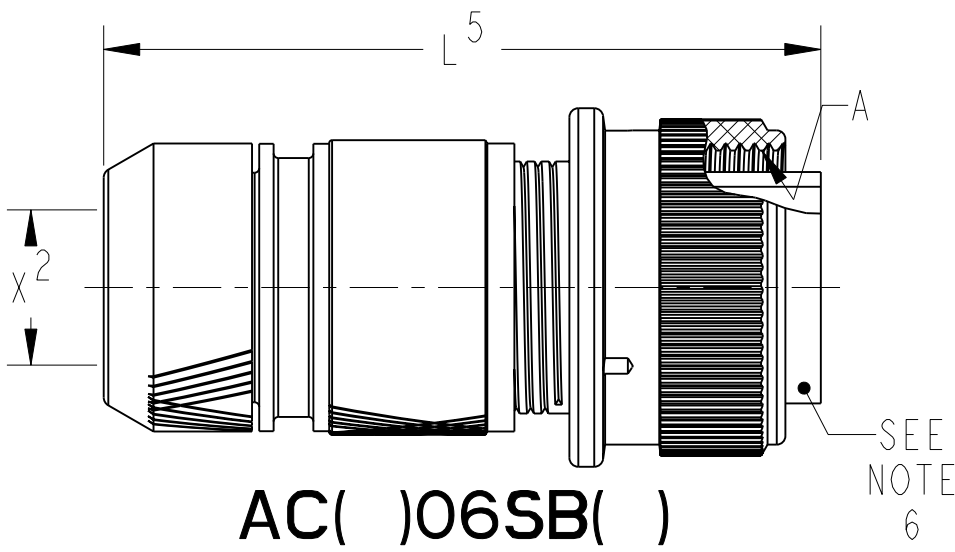
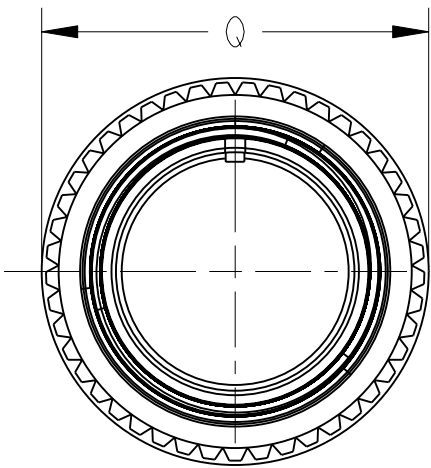
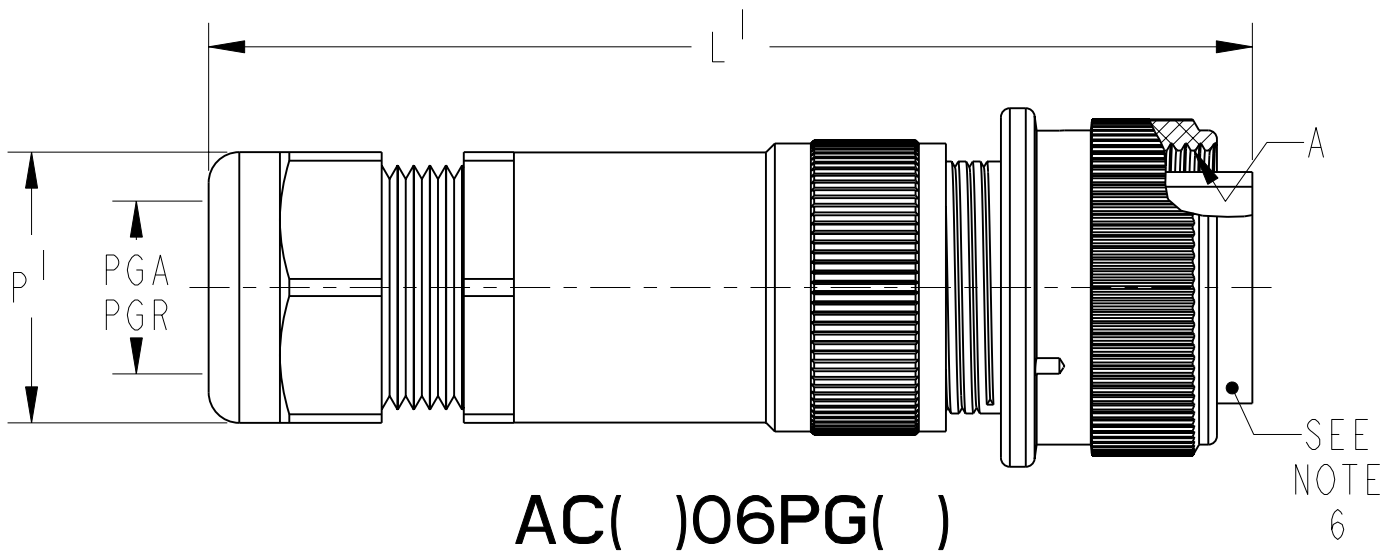
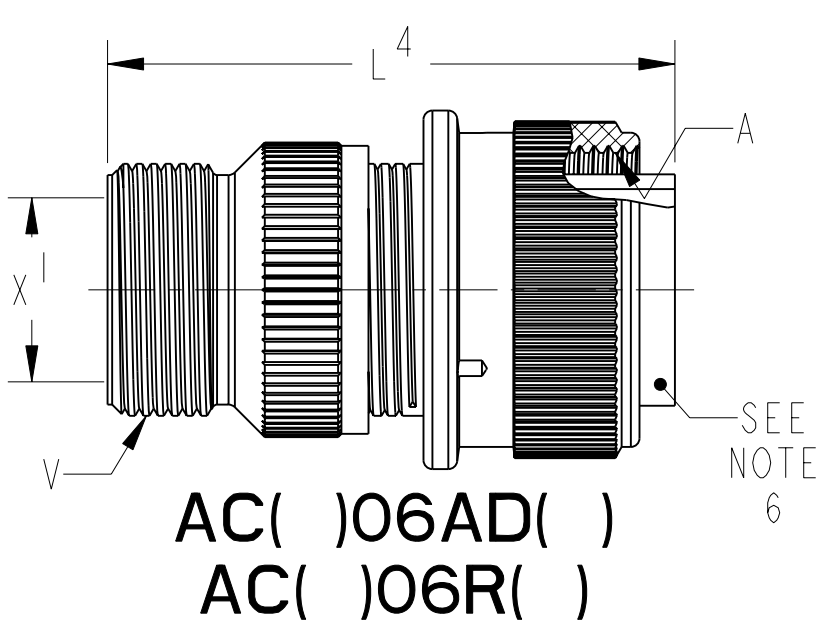
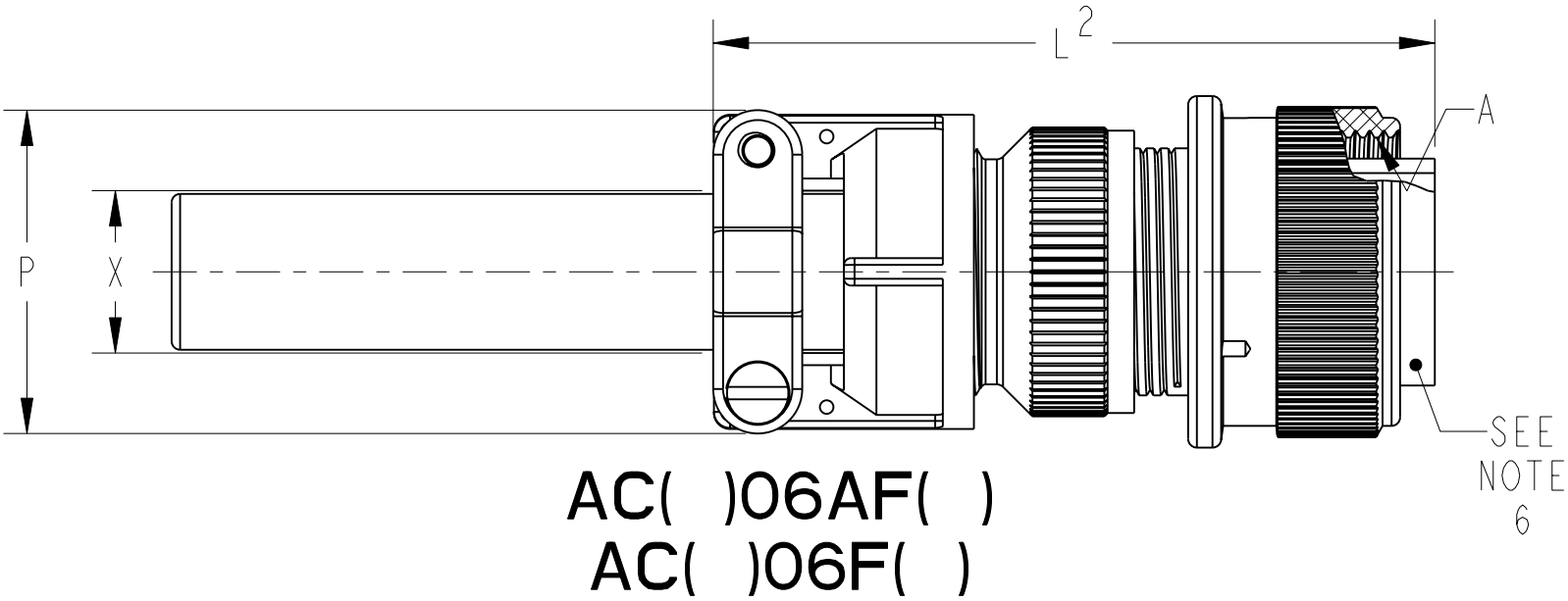
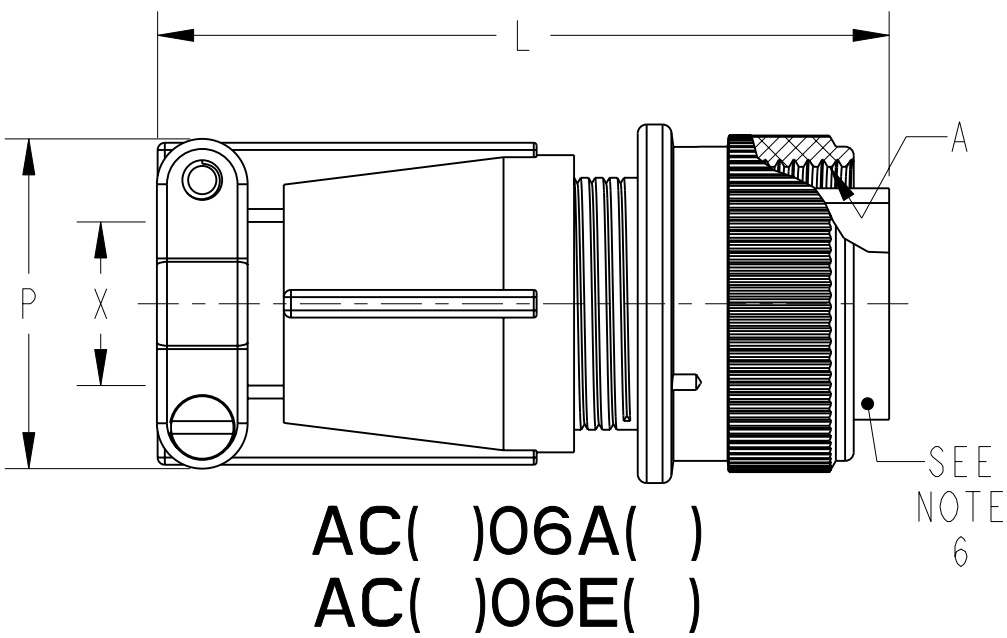
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SIZE	FSCM NO.	DOCUMENT NO.	REV.
C	77820	AC SERIES	G
SCALE: NONE	REF: N/A	SHEET 11 OF 20	

TAB

AC()06()



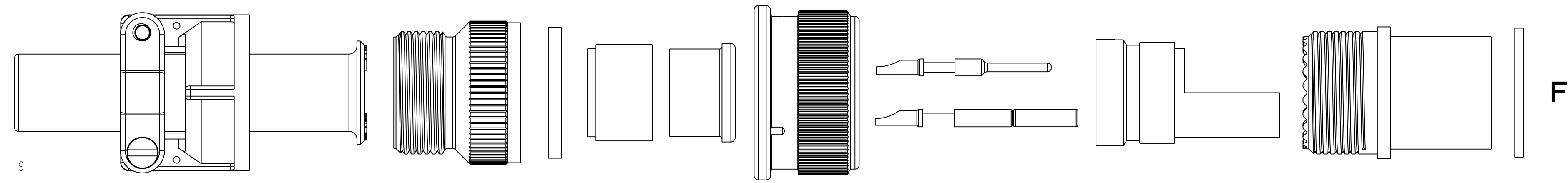
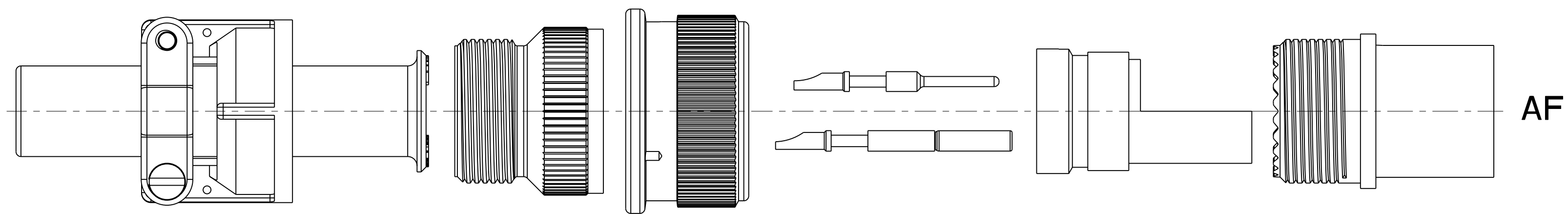
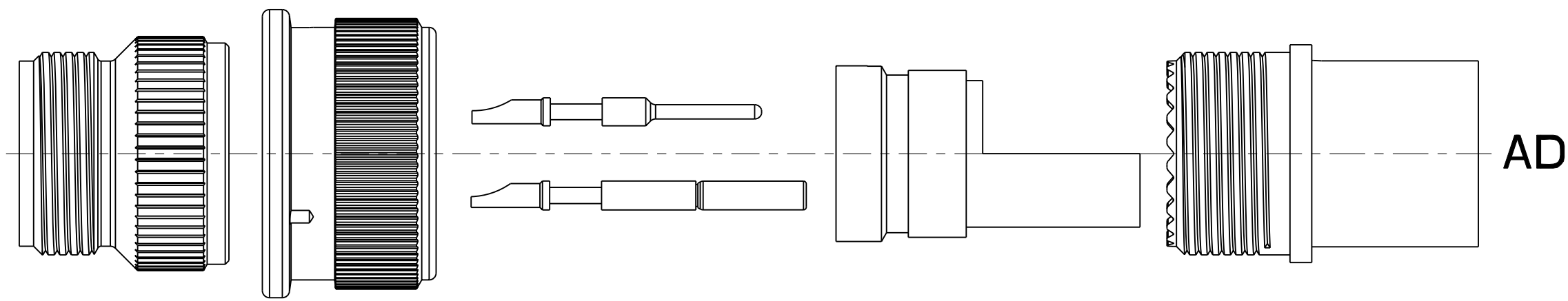
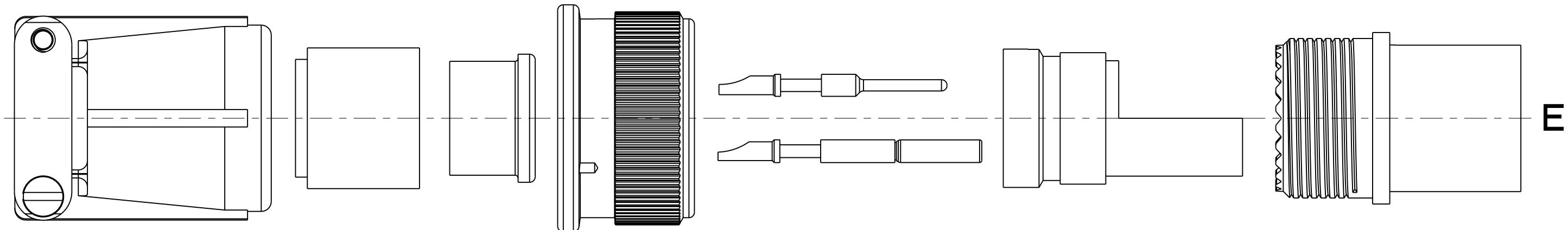
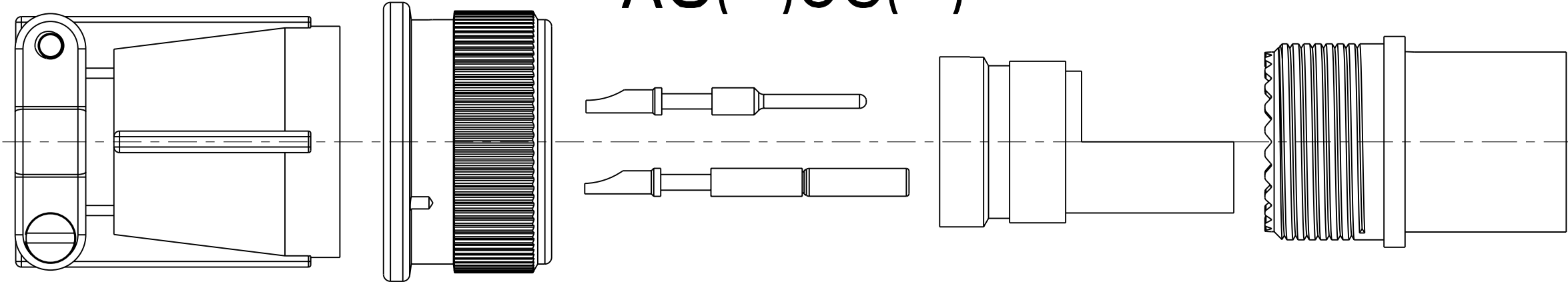
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C	77820	AC SERIES	G
SCALE:NONE	REF:	N/A	SHEET 12 OF 20

AC()06()



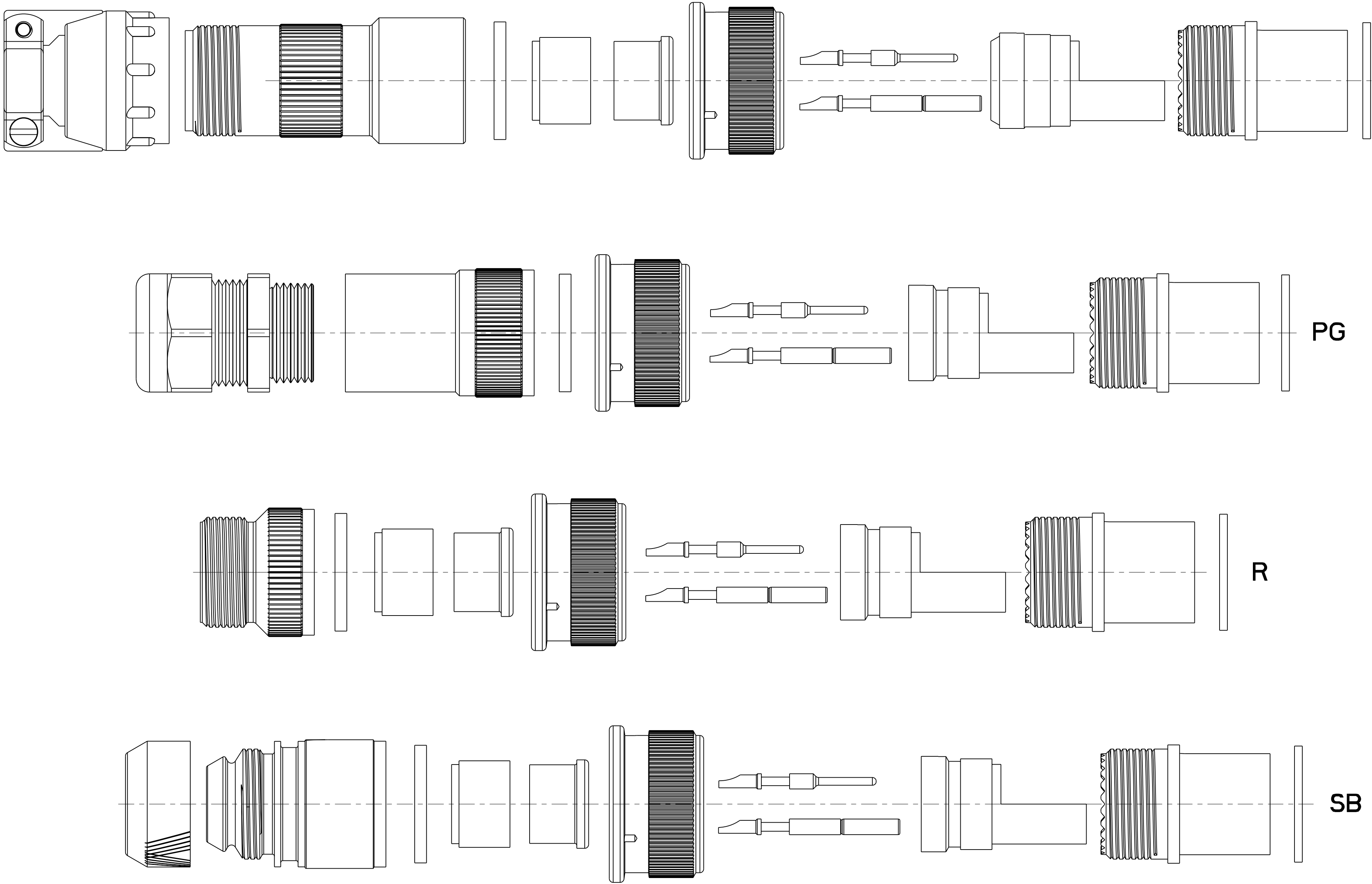
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SIZE	FSCM NO.	DOCUMENT NO.	REV.
C	77820	AC SERIES	G
SCALE: 1:0	REF:	N/A	SHEET 14 OF 20

AC()06()



LCFZ

PG

R

SB

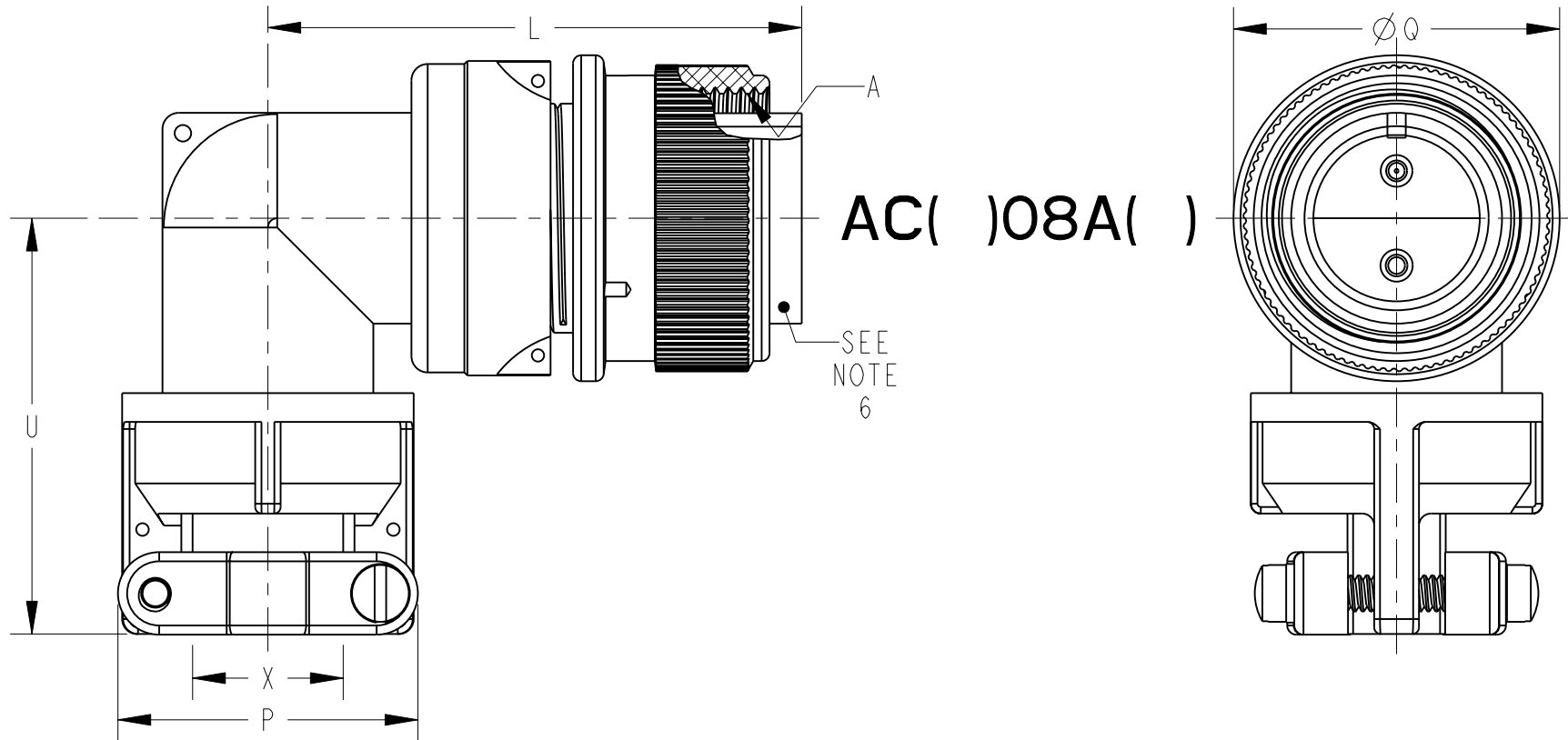
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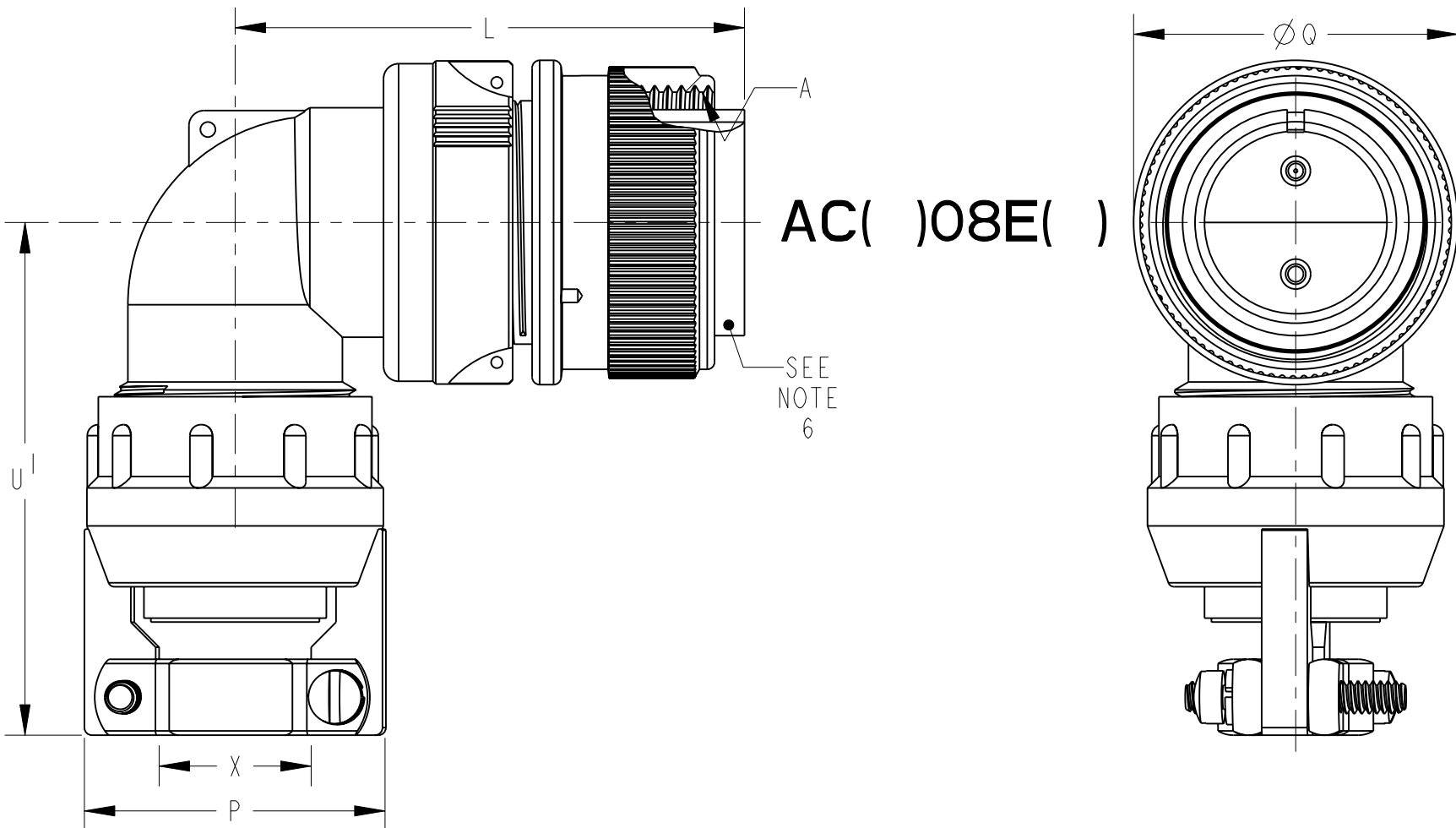
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SCALE: 1.0	REF: N/A	SHEET 15 OF 20	

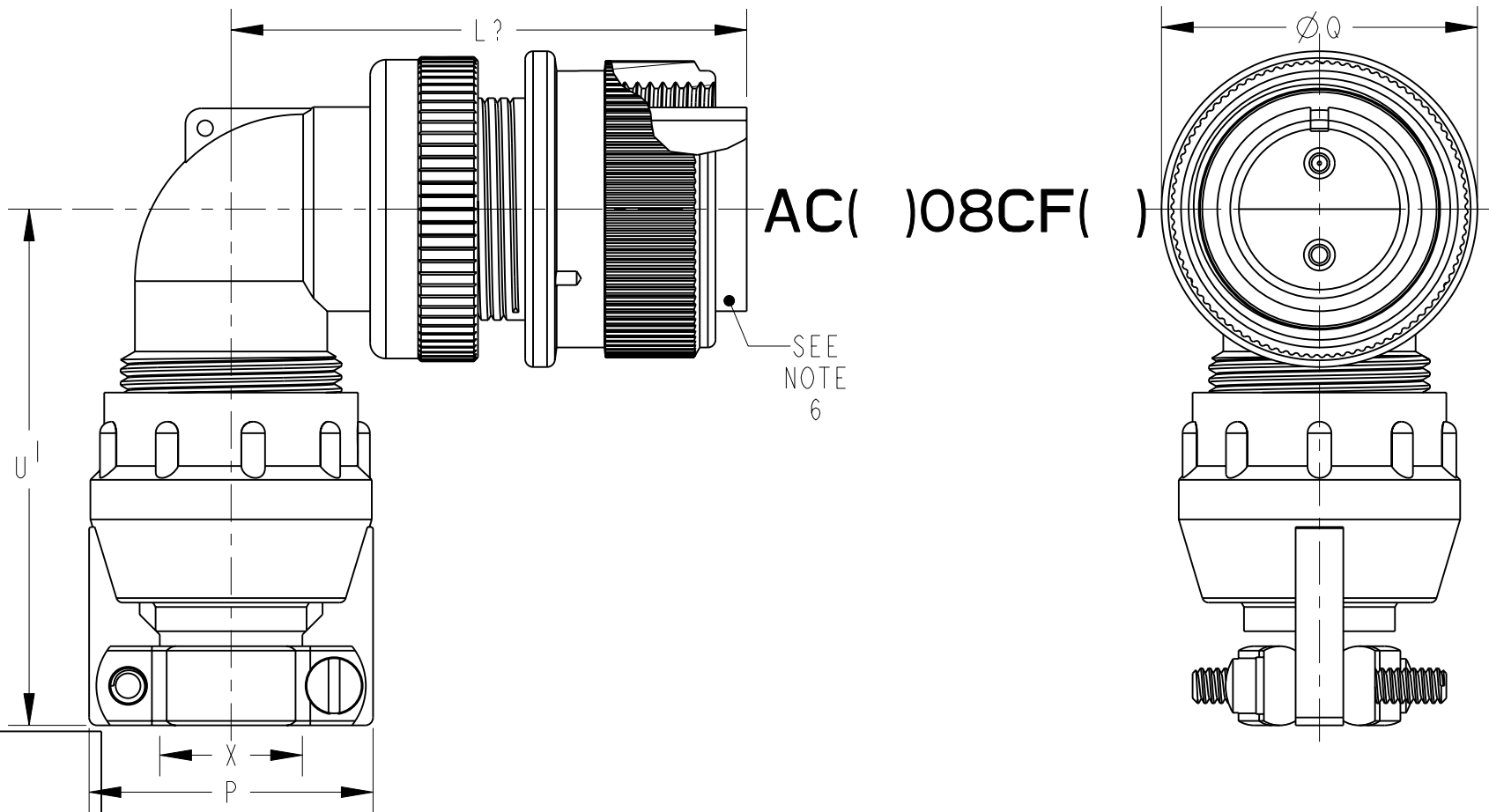
AC()08()



AC()08E()



AC()08CF()



SEE SHEET 19

NOTES:

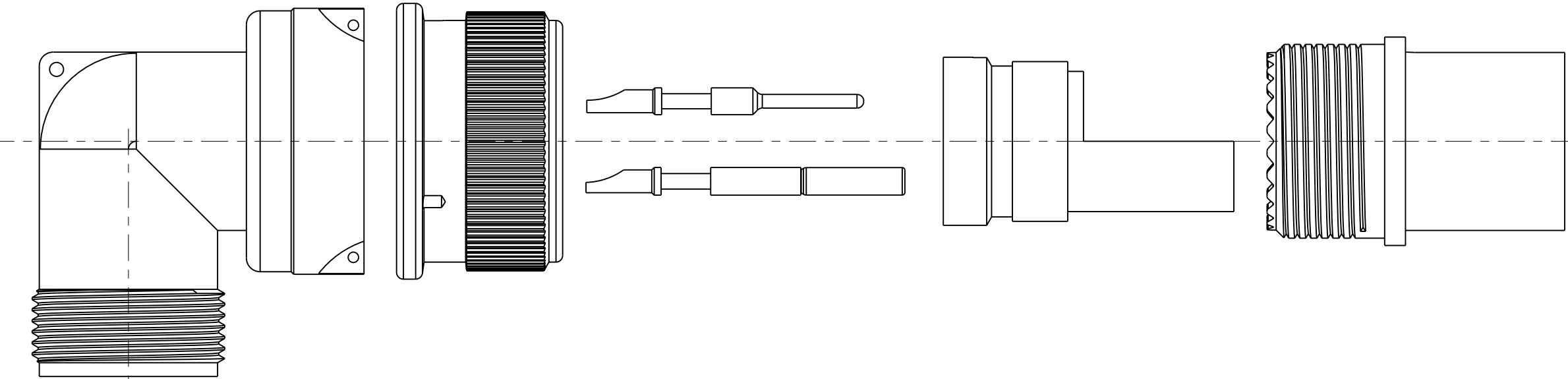
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SIZE	FSCM NO.	DOCUMENT NO.	REV.
C	77820	AC SERIES	G
SCALE:NONE	REF:	N/A	SHEET 16 OF 20

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

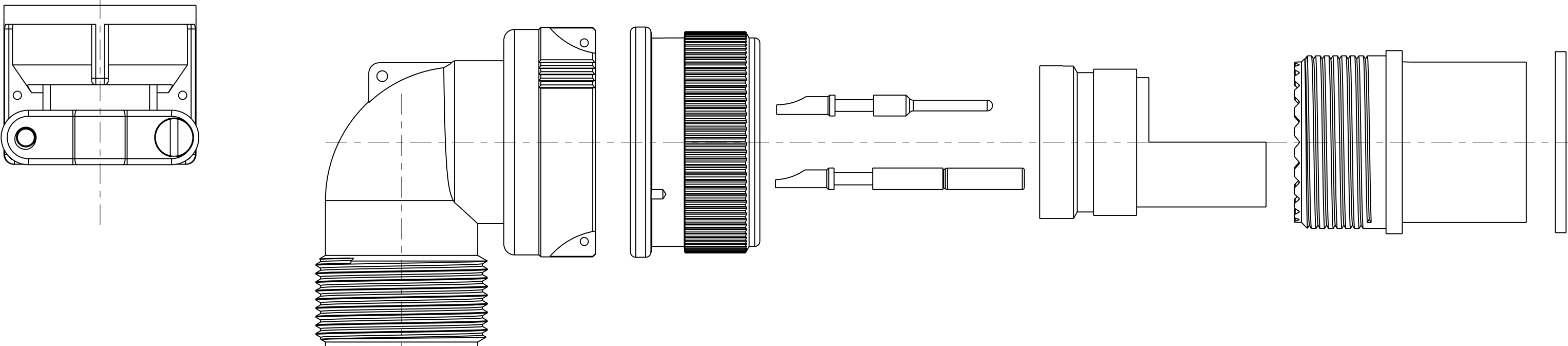
AC()08()

D



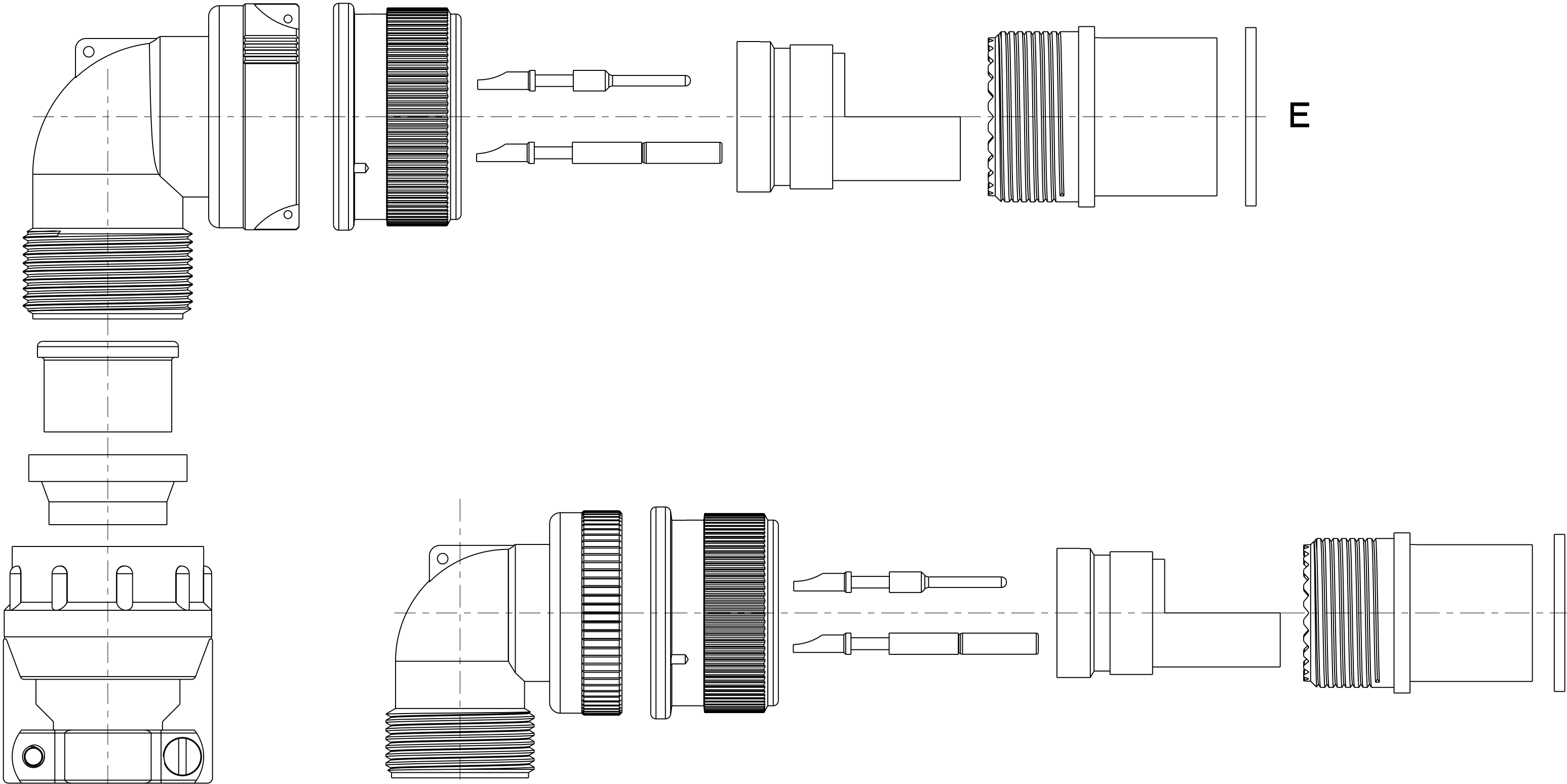
A

C



E

B



CF

A

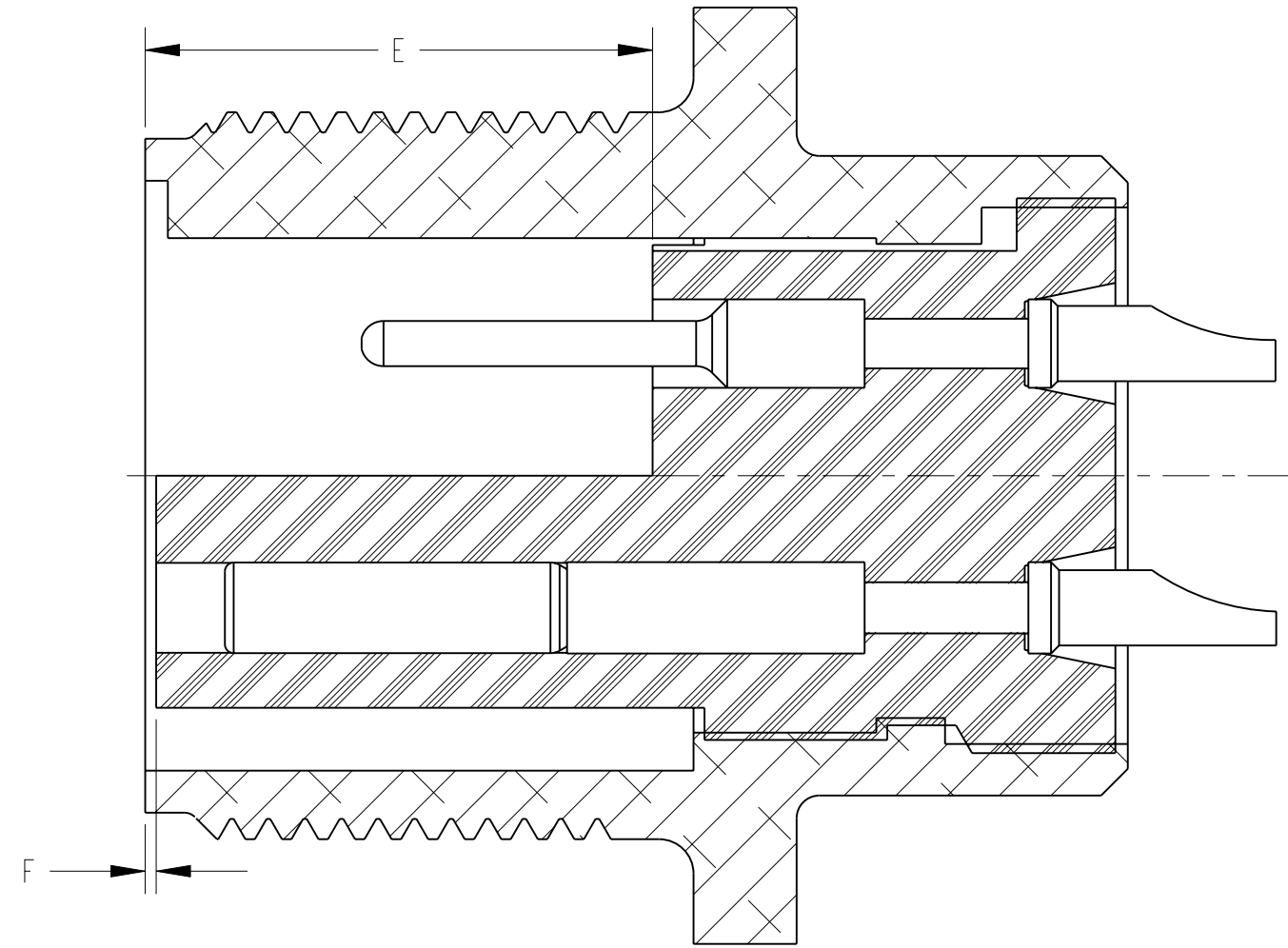
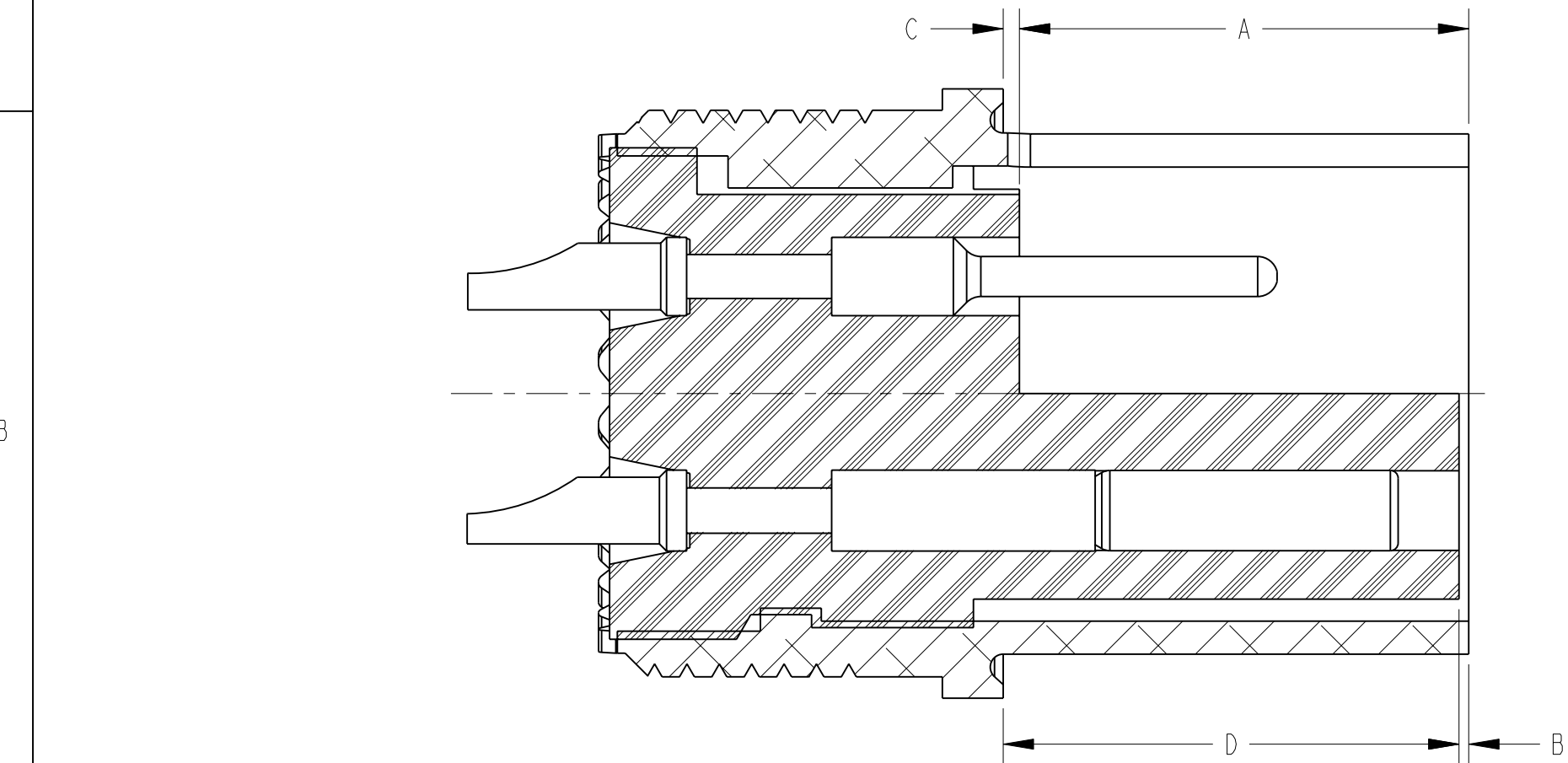
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SIZE	FSCM NO.	DOCUMENT NO.	REV.
C	77820	AC SERIES	G
SCALE:NONE	REF:	N/A	SHEET 18 OF 20

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					
22	22									
24	24									
28	28									
32	32									
36	36									
40	40									
44	44									
48	48									



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D

C

B

A

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