

- NOTES UNLESS OTHERWISE SPECIFIED
1. TERMINI ARE ORDERED SEPARATELY, SEE PART NO. M29504/14 PIN AND M29504/15 SOCKET
 2. TERMINI INSTALLATION TOOL - FSTF0076
 3. TERMINI EXTRACTION TOOL - FSTF0070

REVISION HISTORY			
REV	DESCRIPTION	DATE	APP
	SUPERSEDES DWGS PER ECN 230301-1001		
A	ECN 230417-0806 DM	2023/04/18	BC
B	ECN 230515-1103 DM	2023/05/17	BC
C	ECN 230921-0811 DM	2023/09/21	BC

BACKSHELL DESIGNATOR
/2, /3, /4, /5, /7, /8, /9, /12, /13, /14

M28876/X X X X X X X

MIL-SPEC PART NUMBER
(SEE TABLE 1)

SHELL SIZE DESIGNATION
(SEE TABLE 2)

NO. OF TERMINUS CAVITIES
(SH3, SEE FIGURE 2, TABLE 6)

BACKSHELL DESIGNATOR
(SEE TABLE 7)

SHELL MATERIAL
BLANK = BLACK HARD ANODIZE WITH PTFE

KEYING POSITION DESIGNATION
(SH2, SEE FIGURE 1, TABLE 5)

INSERT DESIGNATOR
S = SOCKET
P = PIN

BACKSHELL DESIGNATOR
/27, /28, /29

M28876/X X X X

MIL-SPEC PART NUMBER
(SEE TABLE 1)

SHELL SIZE DESIGNATION
(SEE TABLE 2)

SHELL MATERIAL
BLANK = BLACK HARD ANODIZE WITH PTFE

BACKSHELL DESIGNATOR
(SEE TABLE 3)

CONNECTOR DESIGNATOR
/1, /6, /11

M28876/X X X X X X X

MIL-SPEC PART NUMBER
(SEE TABLE 1)

SHELL SIZE DESIGNATION
(SEE TABLE 2)

NO. OF TERMINUS CAVITIES
(SH3, SEE FIGURE 2, TABLE 6)

INSERT DESIGNATOR
S = SOCKET
P = PIN

SHELL MATERIAL
BLANK = BLACK HARD ANODIZE WITH PTFE

REAR HARDWARE
N = NO RETAINING HARDWARE
BLANK = WITH RETAINING HARDWARE

KEYING POSITION DESIGNATION
(SH2, SEE FIGURE 1, TABLE 5)

DUST CAP DESIGNATOR
/10, /15

M28876/X X X X

MIL-SPEC PART NUMBER
(SEE TABLE 1)

SHELL SIZE DESIGNATION
(SEE TABLE 2)

SHELL MATERIAL
BLANK = BLACK HARD ANODIZE WITH PTFE

LANYARD DESIGN
(SEE TABLE 4)

TABLE 1			
MIL-SPEC PART NUMBER	DESCRIPTION	BACKSHELL	SEE FIGURE
M28876/1	RECEPTACLE, WALL MOUNT	NONE	3
M28876/2		STRAIGHT	
M28876/3		45°	
M28876/4		90°	
M28876/5	RECEPTACLE, INLINE	STRAIGHT	8
M28876/6	PLUG	NONE	4
M28876/7		STRAIGHT	
M28876/8		45°	
M28876/9		90°	
M28876/10	PLUG DUST CAP	NONE	7
M28876/11	RECEPTACLE, JAM NUT	NONE	5
M28876/12		STRAIGHT	
M28876/13		45°	
M28876/14		90°	
M28876/15	RECEPTACLE DUST CAP	NONE	7
M28876/27	STRAIGHT BACKSHELL ONLY		6
M28876/28	45° BACKSHELL ONLY		
M28876/29	90° BACKSHELL ONLY		

TABLE 3			
BACKSHELL DESIGNATOR	CABLE RANGE DIAMETERS		
	SHELL SIZE 13	SHELL SIZE 15	SHELL SIZE 23
1	0.280-0.315	0.495-0.515	0.768-0.866
2	0.305-0.346	0.380-0.423	0.900-1.000
3	-	0.423-0.465	-
4	-	0.305-0.346	-

TABLE 7			
BACKSHELL DESIGNATOR	CABLE RANGE DIAMETERS		
	SHELL SIZE 13	SHELL SIZE 15	SHELL SIZE 23
1	0.280-0.315	0.495-0.515	0.768-0.866
2	0.305-0.346	0.250-0.304	0.900-1.000
3	0.412-0.455	0.347-0.379	0.550-0.660
4	-	-	-

TABLE 2	
SHELL SIZE	SHELL SIZE DESIGNATOR
13	B
15	C
23	F

TABLE 4	
LANYARD STYLE	
A	CHAIN W/FASTENER
B	CHAIN W/RING
C	ROPE W/FASTENER
D	ROPE W/RING
E	DUST CAP ONLY

DFT	DM	2023/02/16	AmphenolFSI	
ENG	DM	2023/02/16		
CHK	BC	2023/02/16		
APP	JC	2023/02/16		
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLES ±3 1 PL ±.1 2 PL ±.02 3 PL ±.010 INTERPRET DIM AND TOL PER ASME Y14.5-2009			TITLE	
			M28876 COMPONENTS	
SIZE	CAGE CODE	DWG NO	REV	
C	ØYPM2	M28876	C	
SCALE	3:1	SHEET		1 OF 9

PRODUCT DRAWING

FIGURE 1
KEYING ARRANGEMENTS

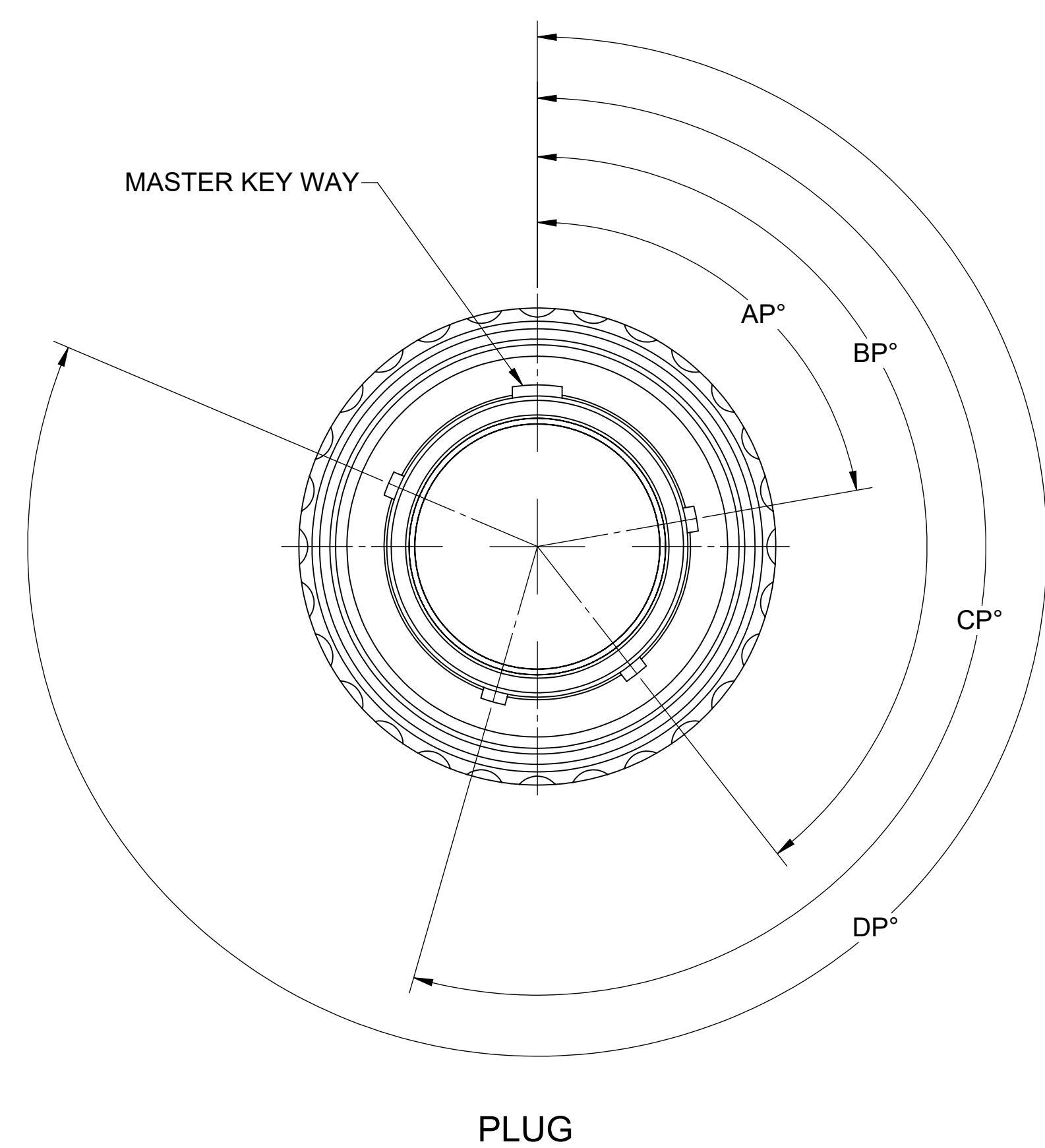
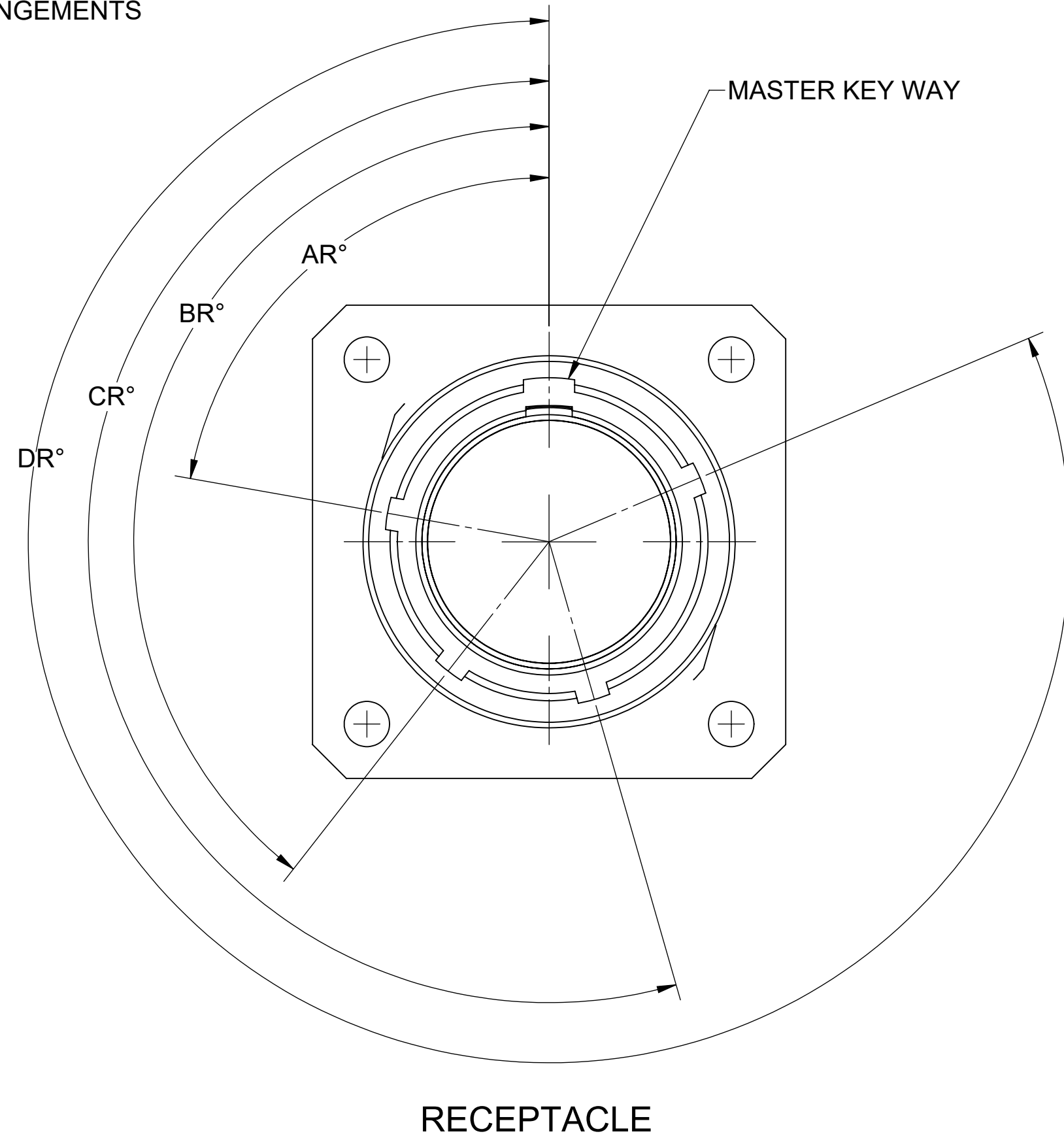


TABLE 5 - KEYING ARRANGEMENTS					
SHELL SIZE	KEYING POSITION DESIGNATOR	AR° or AP°	BR° or BP°	CR° or CP°	DR° or DP°
13	1	95°	141°	208°	236°
	2	113°	156°	182°	292°
	3	90°	145°	195°	252°
	4	53°	156°	220°	255°
	5	119°	146°	176°	298°
	6	51°	141°	184°	242°
	U	UNIVERSAL KEY OPTION			
15 AND 23	1	80°	142°	196°	293°
	2	135°	170°	200°	310°
	3	49°	169°	200°	244°
	4	66°	140°	200°	257°
	5	62°	145°	180°	280°
	6	79°	153°	197°	272°
	U	UNIVERSAL KEY OPTION			

FIGURE 2
INSERT ARRANGEMENTS

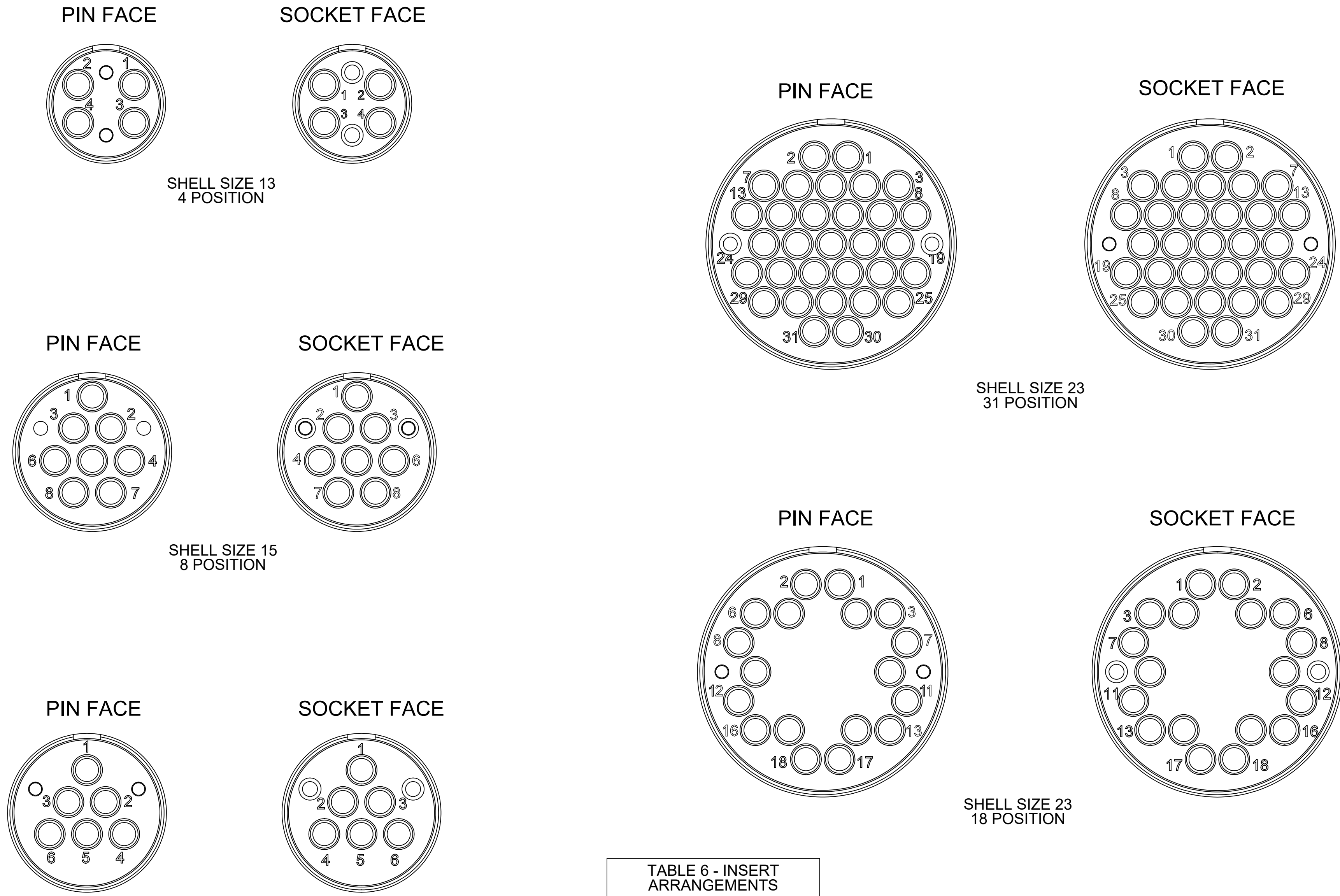
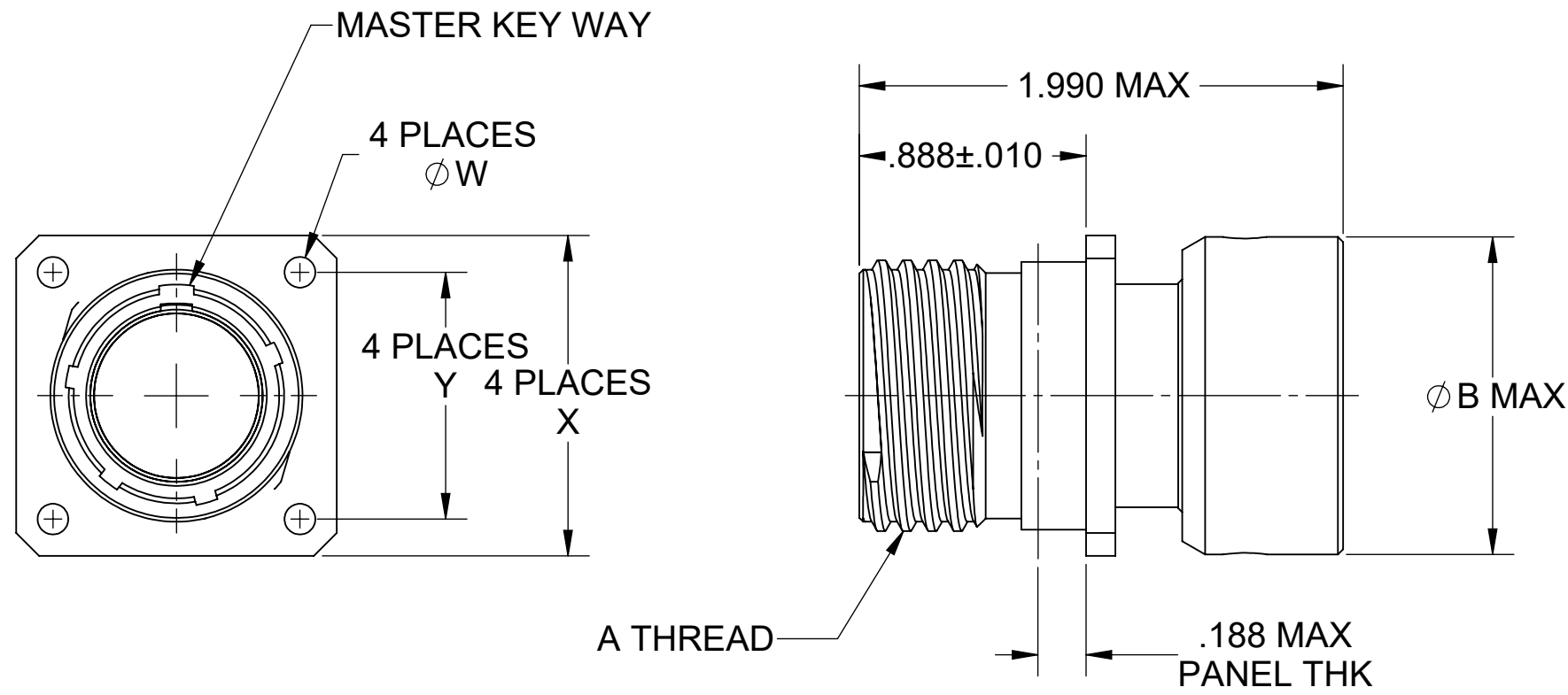


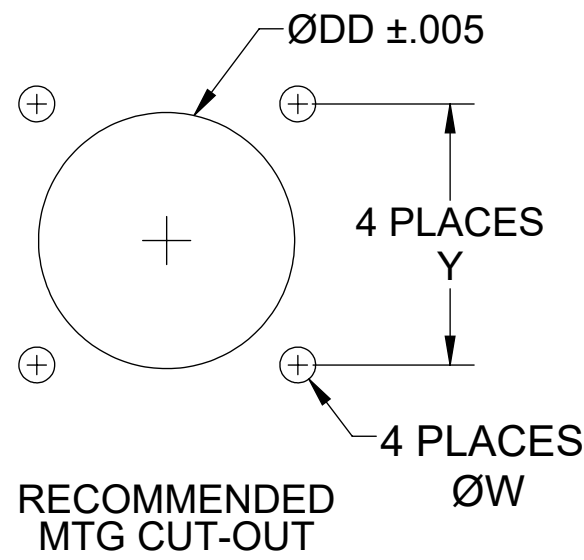
TABLE 6 - INSERT ARRANGEMENTS	
SHELL SIZE	TERMINUS CAVITY DESIGNATOR
13	1 = 4 CH
15	1 = 8 CH 2 = 6 CH
23	1 = 31 CH 2 = 18 CH

FIGURE 3

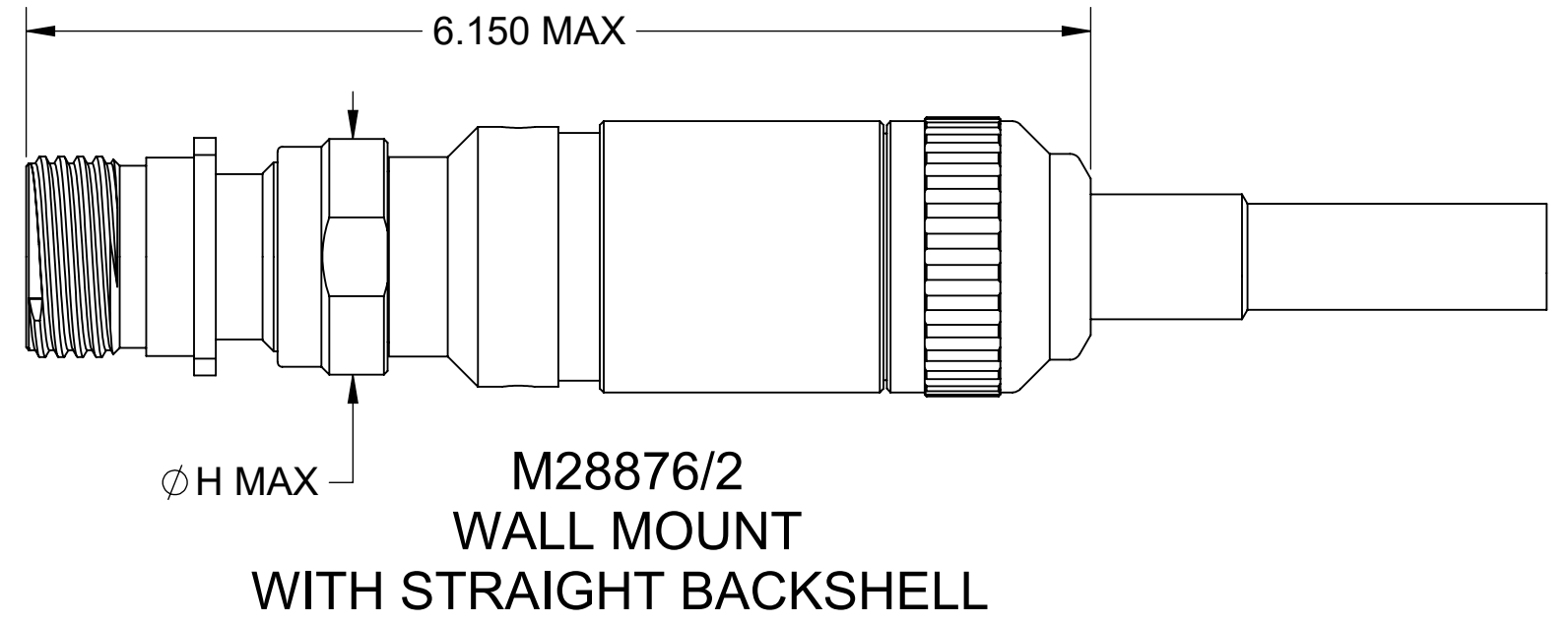
WALL MOUNT RECEPTACLE



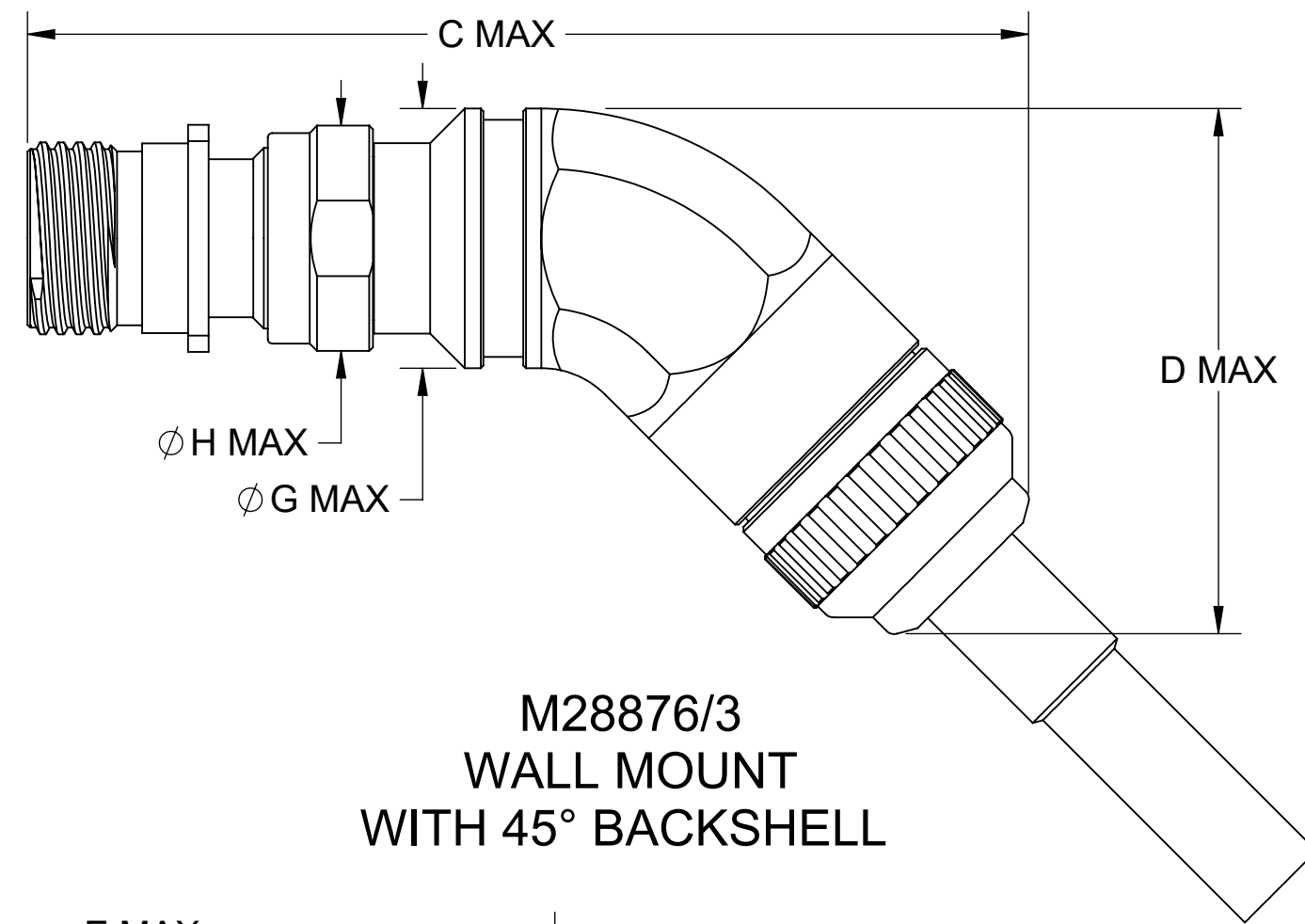
M28876/1
WALL MOUNT RECEPTACLE



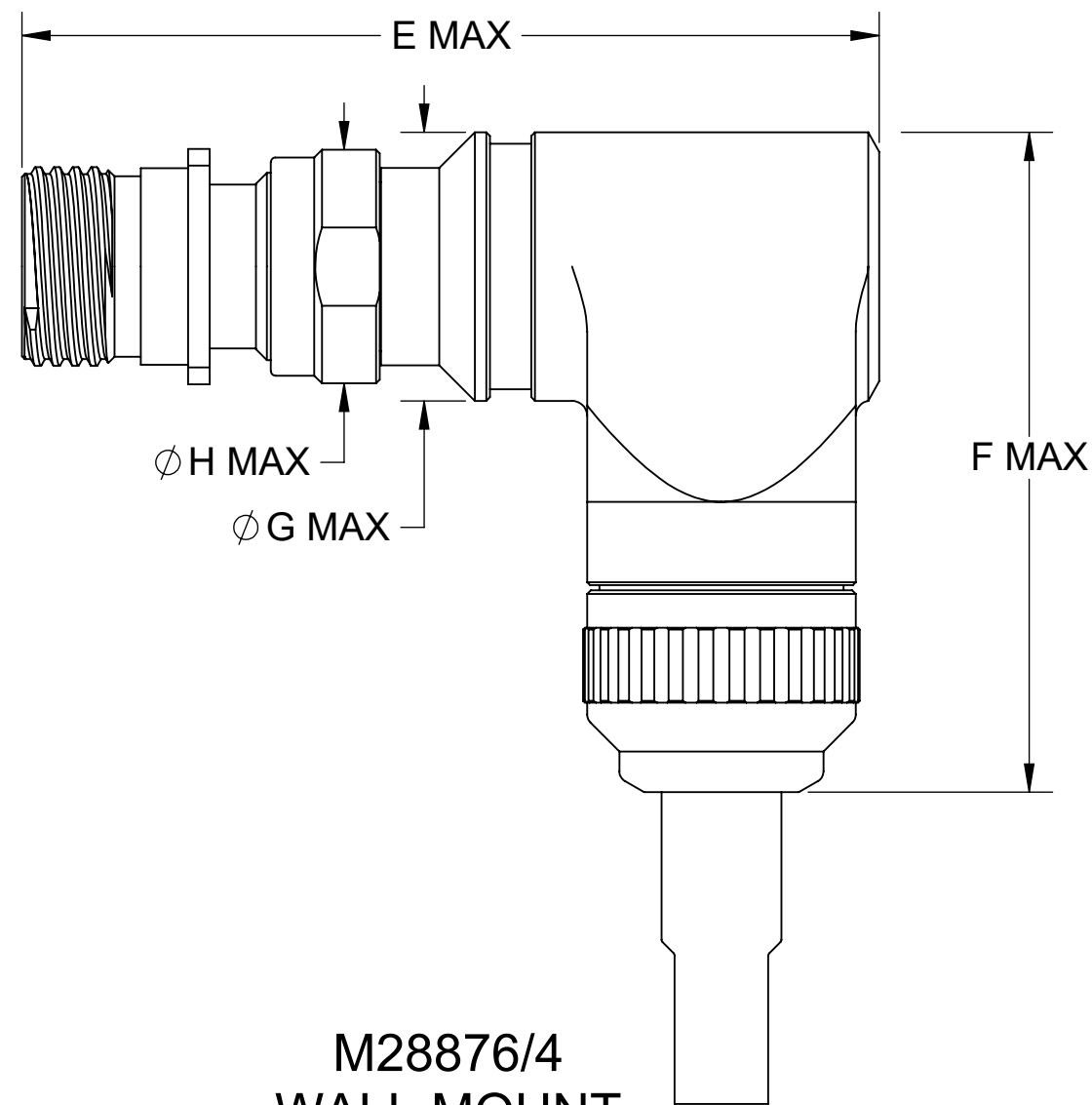
WALL MOUNT DIMENSIONS												
SHELL SIZE	A THREAD 2A-.1P-.2L-D.S	B MAX	C MAX	D MAX	E MAX	F MAX	G MAX	H MAX	X	Y	ϕW	ϕDD
13	.875	1.085	6.220	3.580	4.250	4.250	1.050	1.085	1.158 1.116	.843	.130 .115	.937
15	1.062	1.255	6.500	3.850	4.500	4.500	1.500	1.255	1.278 1.236	.968		1.124
23	1.500	1.763	7.500	5.000	5.000	5.000	2.250	1.695	1.738 1.698	1.281		1.562



M28876/2
WALL MOUNT
WITH STRAIGHT BACKSHELL



M28876/3
WALL MOUNT
WITH 45° BACKSHELL

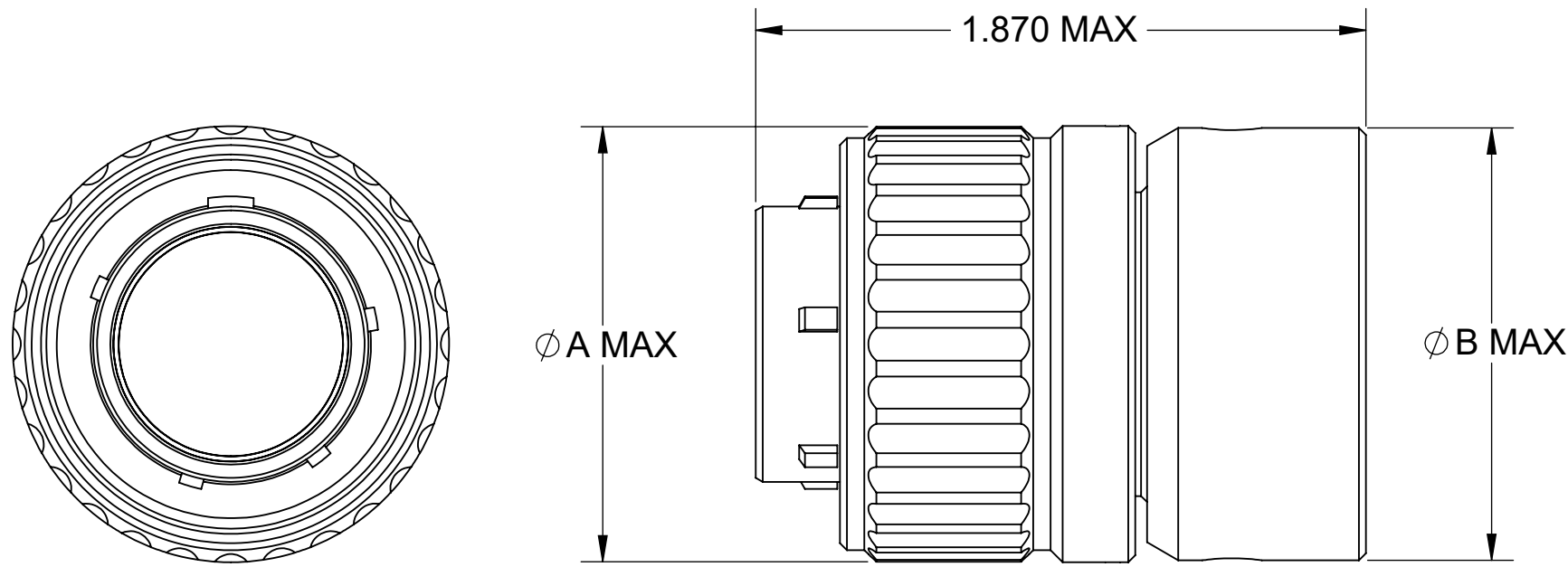


M28876/4
WALL MOUNT
WITH 90° BACKSHELL

SIZE	CAGE CODE	DWG NO	REV
C	ØYPM2	M28876	C
SCALE	SHEET		4 OF 9
1.5:1			

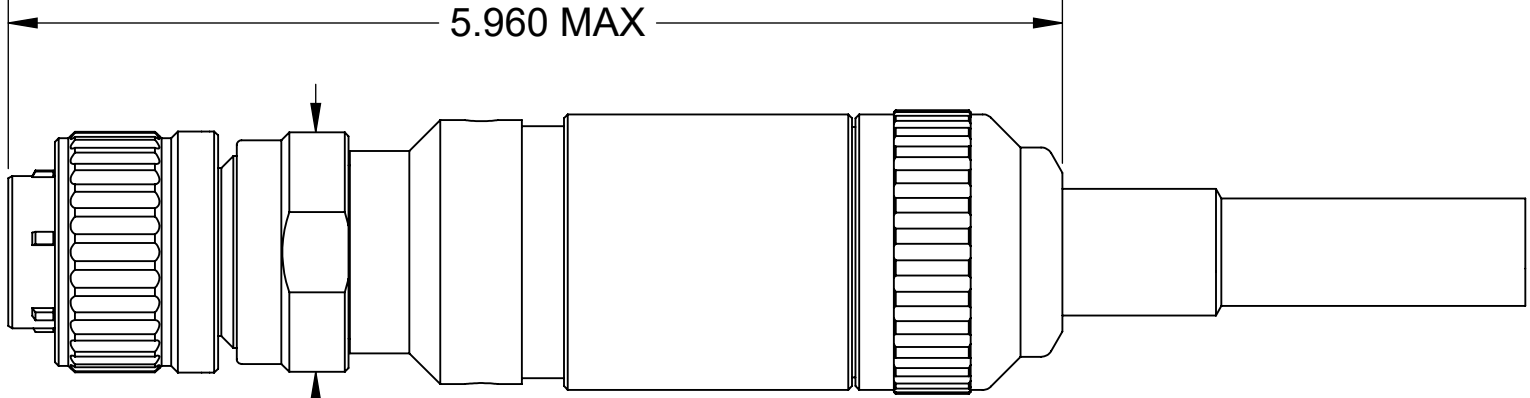
TOP ASSY: 217-105 217-132
217-217 217-229
217-304 217-329

FIGURE 4
PLUG

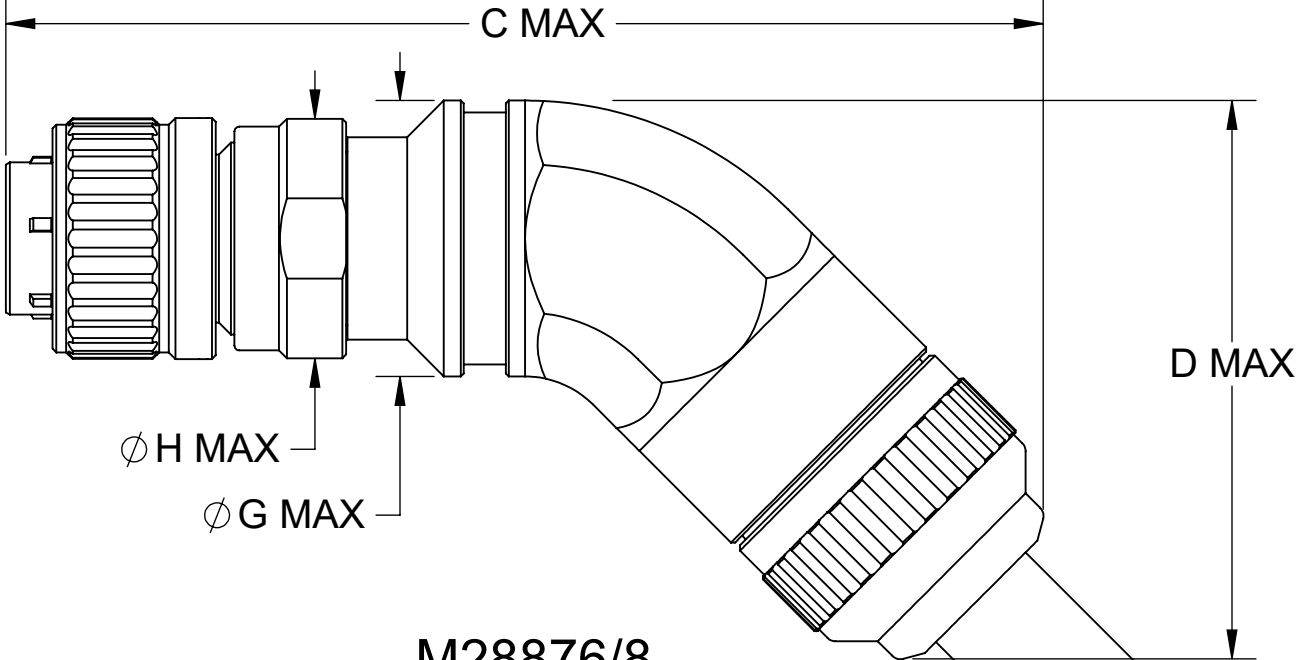


M28876/6
PLUG

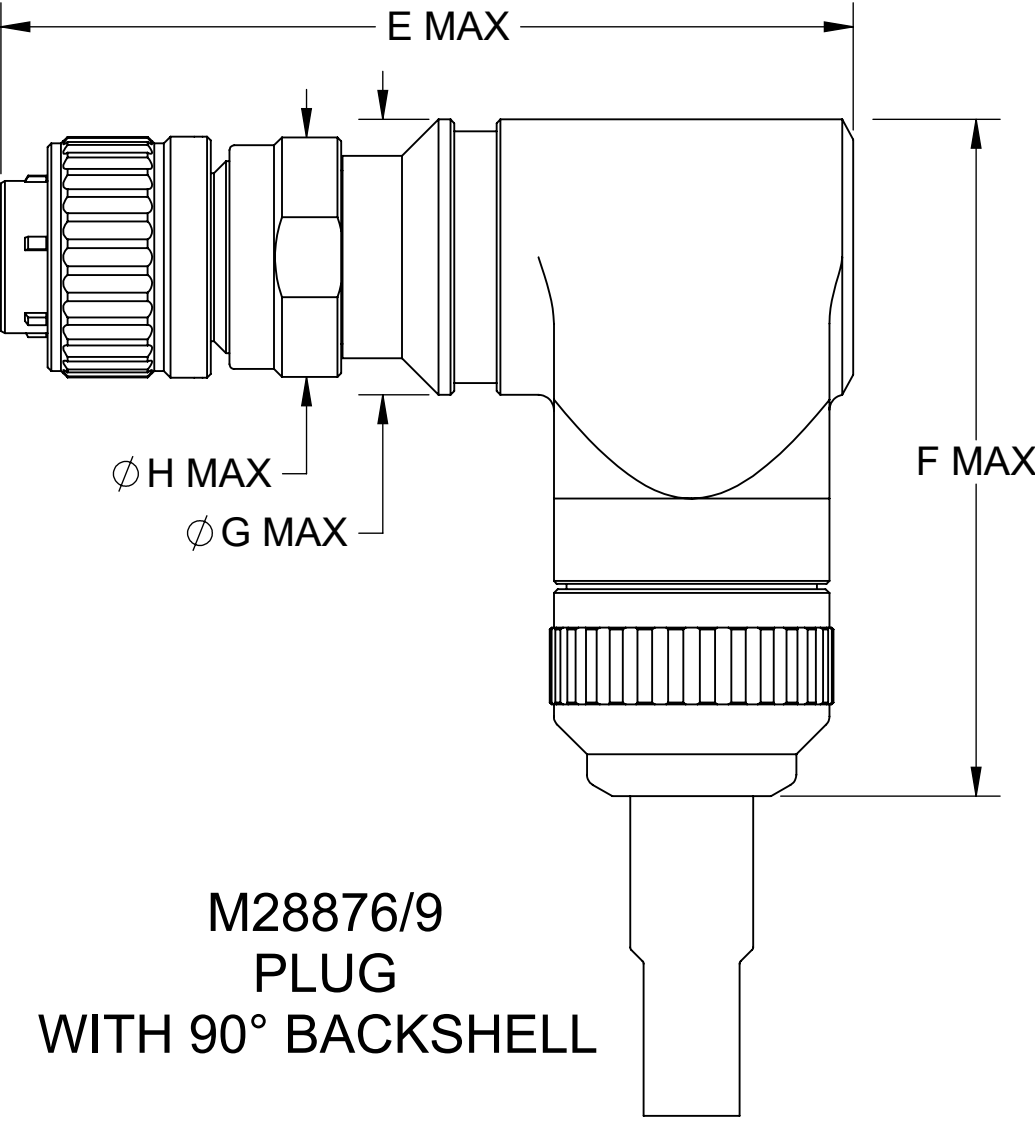
PLUG DIMENSIONS								
SHELL SIZE	A MAX	B MAX	C MAX	D MAX	E MAX	F MAX	G MAX	H MAX
13	1.141	1.085	6.160	3.580	4.190	4.250	1.200	1.085
15	1.263	1.255	6.440	3.850	4.440	4.500	1.550	1.257
23	1.705	1.763	7.350	5.000	4.850	5.000	2.250	1.695



M28876/7
PLUG
WITH STRAIGHT BACKSHELL



M28876/8
PLUG
WITH 45° BACKSHELL



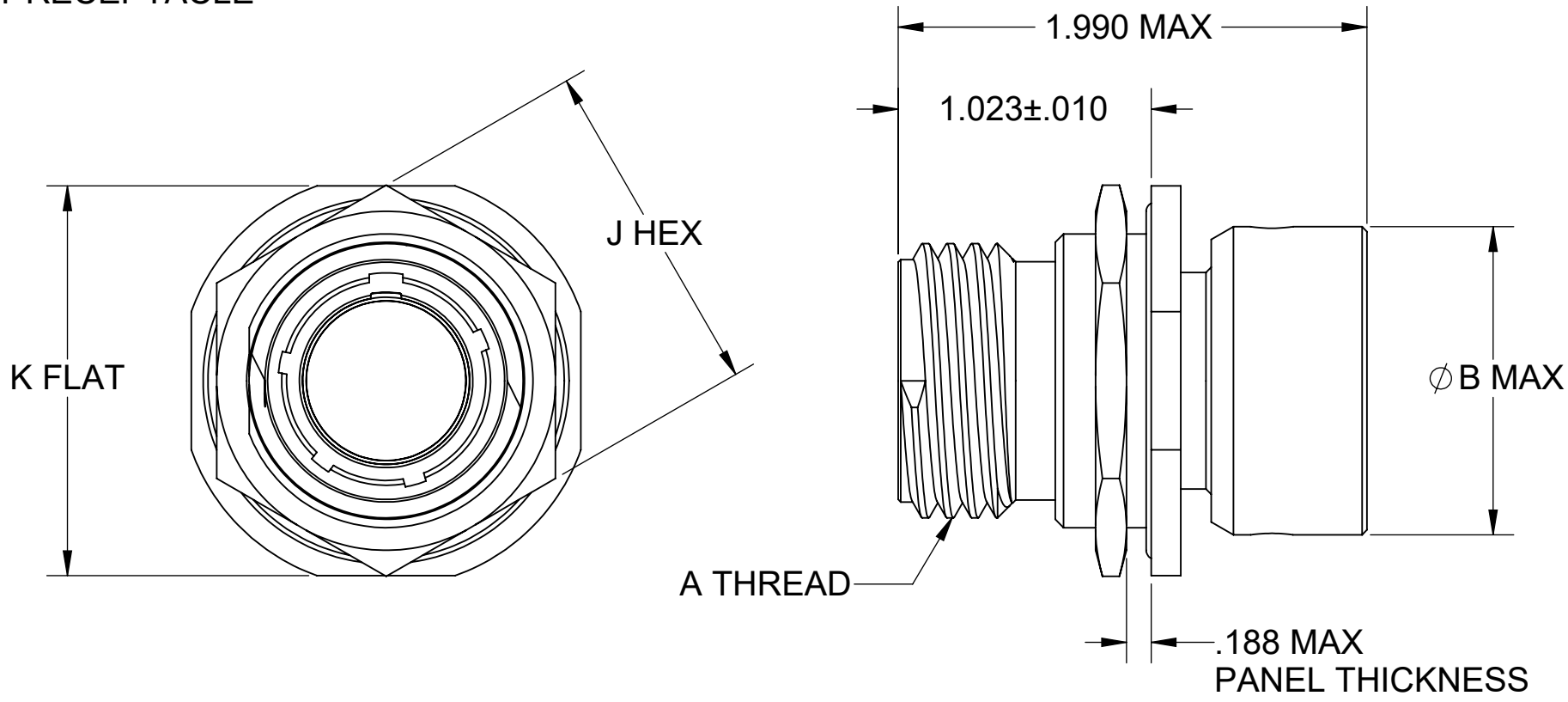
M28876/9
PLUG
WITH 90° BACKSHELL

SIZE	CAGE CODE	DWG NO	REV
C	ØYPM2	M28876	C
SCALE	SHEET		5 OF 9
1.5:1			

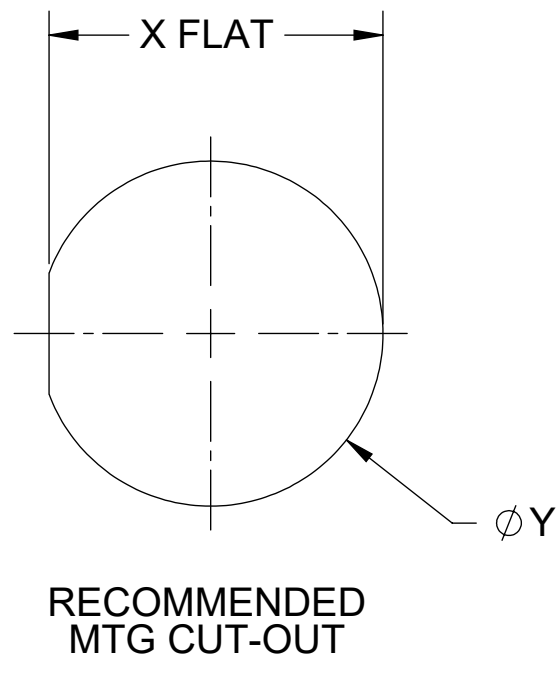
TOP ASSY: 217-111 217-133
217-219 217-230
217-300 217-330

FIGURE 5

JAM NUT RECEPTACLE

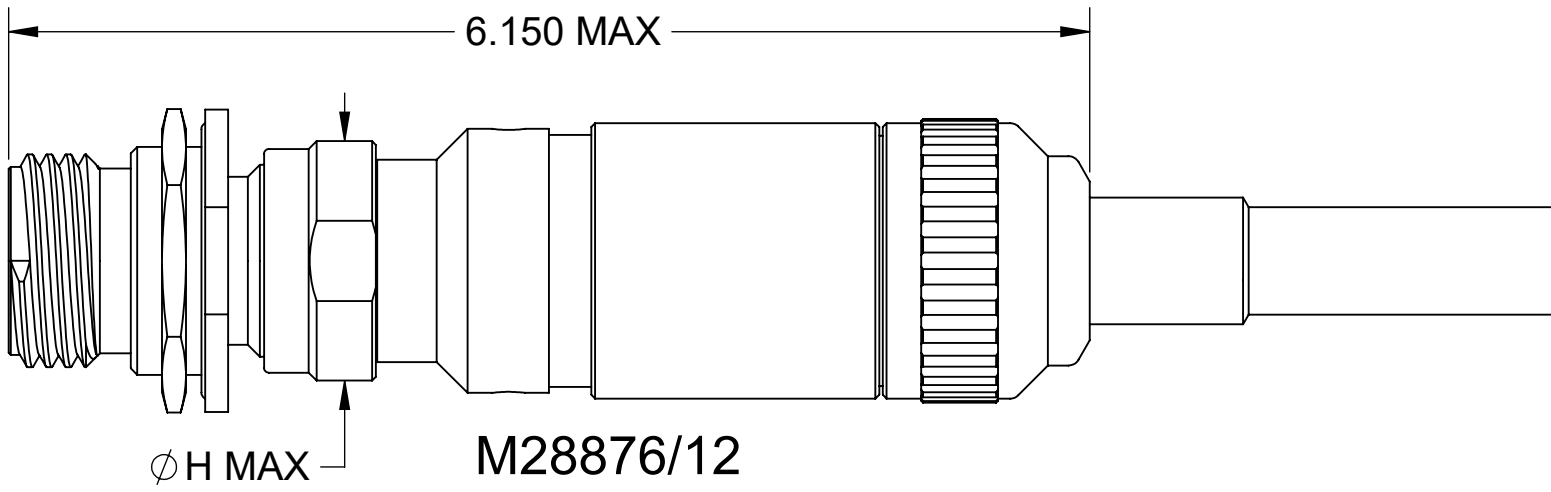


M28876/11
JAM NUT RECEPTACLE

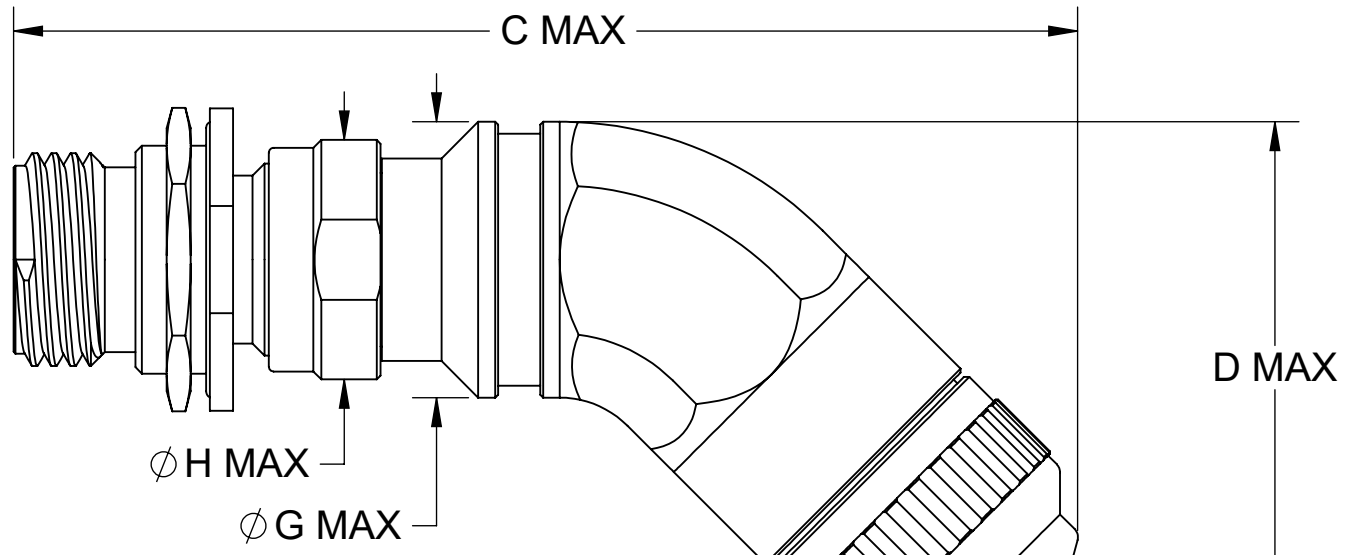


RECOMMENDED
MTG CUT-OUT

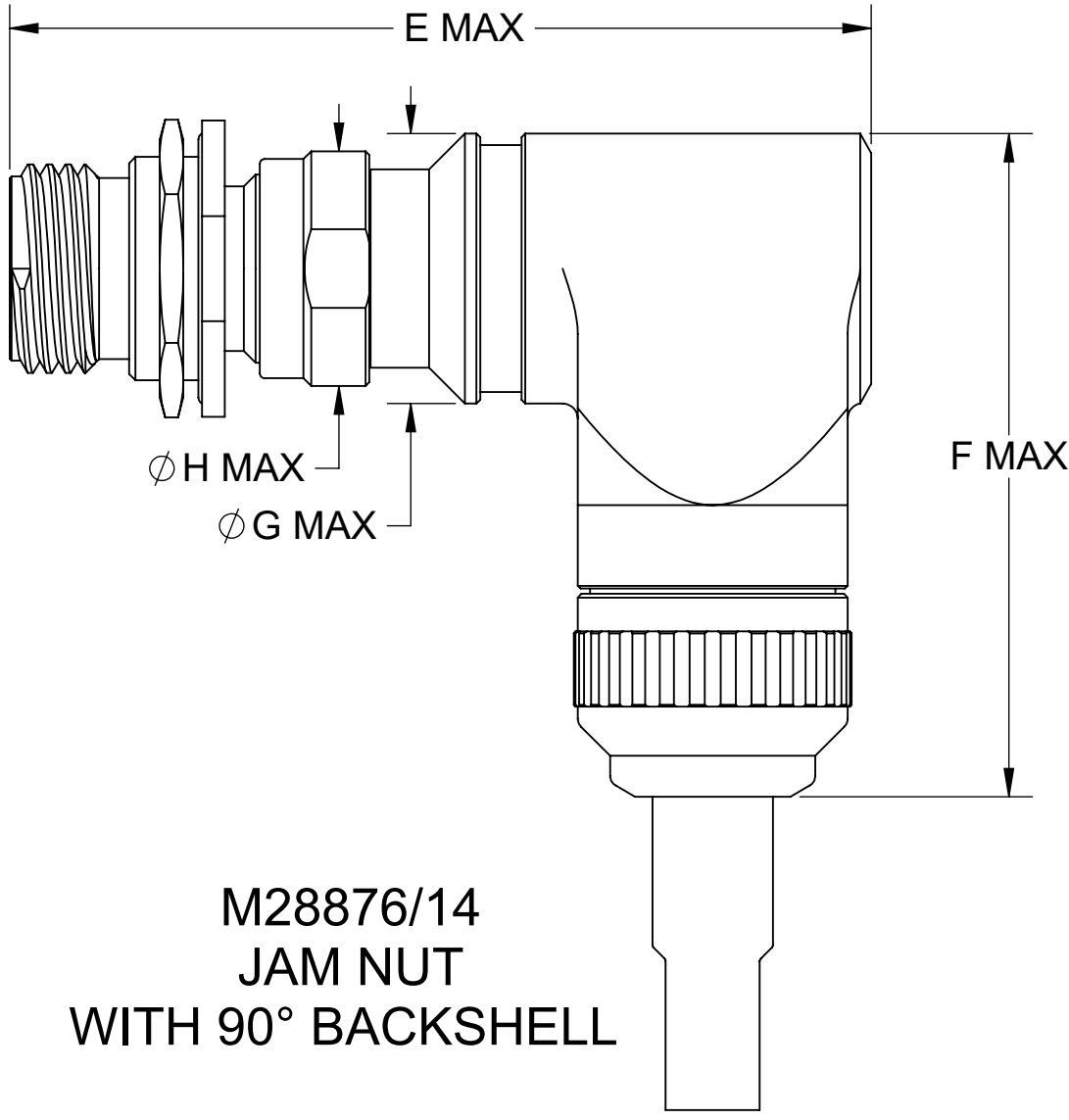
JAM NUT DIMENSIONS												
SHELL SIZE	A THREAD 2A-.1P-.2L-D.S	B MAX	C MAX	D MAX	E MAX	F MAX	G MAX	H MAX	J HEX	K FLAT	X FLAT	Y DIA
13	.875	1.085	6.220	3.580	4.250	4.250	1.200	1.085	1.205 1.171	1.399 1.379	.978 .968	1.015 1.005
15	1.062	1.255	6.500	3.850	4.500	4.500	1.550	1.257	1.392 1.358	1.587 1.567	1.165 1.155	1.203 1.193
23	1.500	1.763	7.500	5.000	5.000	5.000	2.250	1.695	1.812 1.778	2.014 1.994	1.598 1.588	1.635 1.625



M28876/12
JAM NUT
WITH STRAIGHT BACKSHELL



M28876/13
JAM NUT
WITH 45° BACKSHELL

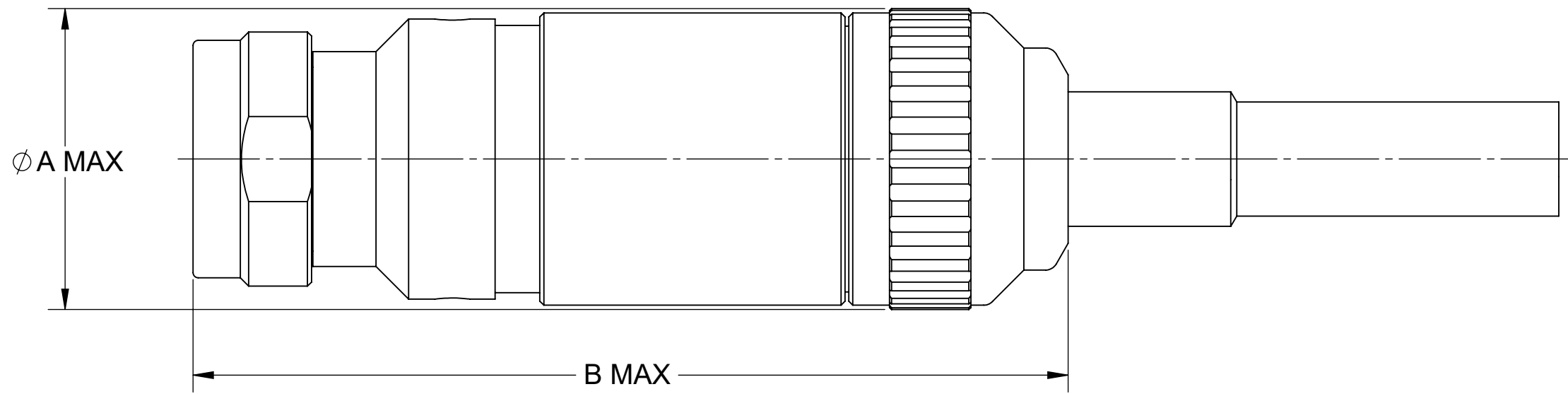


M28876/14
JAM NUT
WITH 90° BACKSHELL

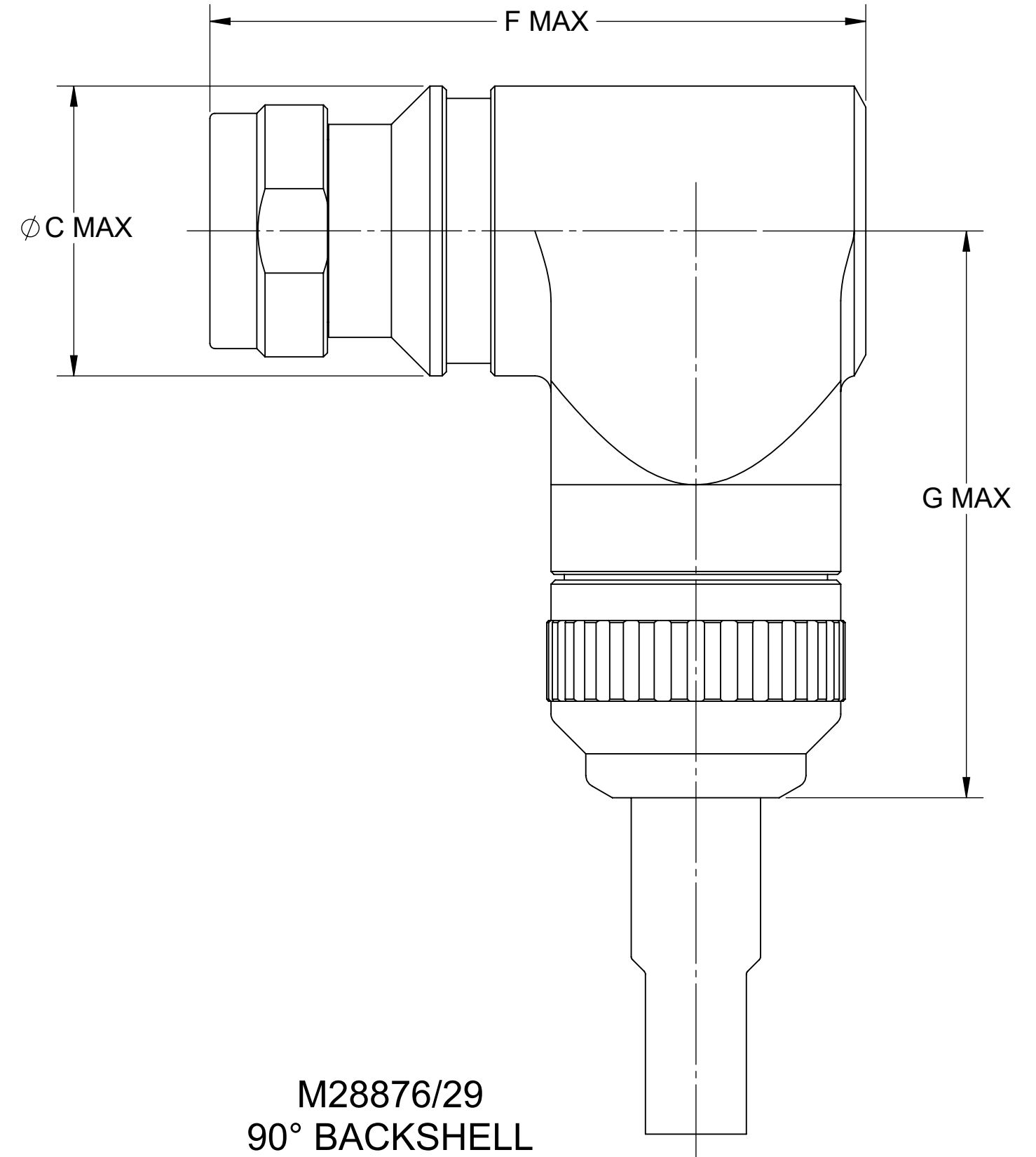
SIZE	CAGE CODE	DWG NO	REV
C	ØYPM2	M28876	C
SCALE	SHEET		6 OF 9
1.5:1			

TOP ASSY: 217-103 217-134
217-218 217-231
217-306 217-331

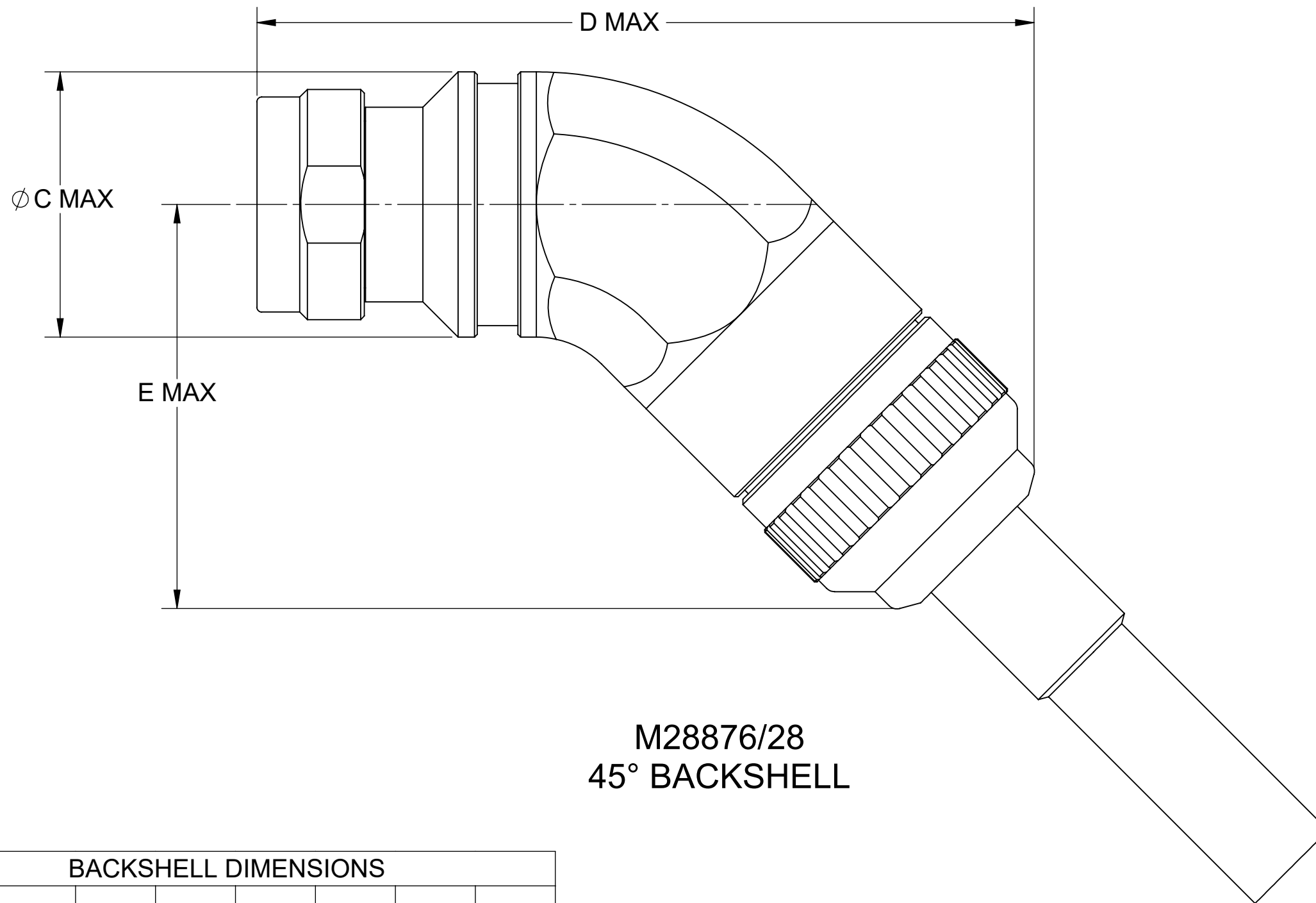
FIGURE 6
BACKSHELLS ONLY



M28876/27
STRAIGHT BACKSHELL



M28876/29
90° BACKSHELL



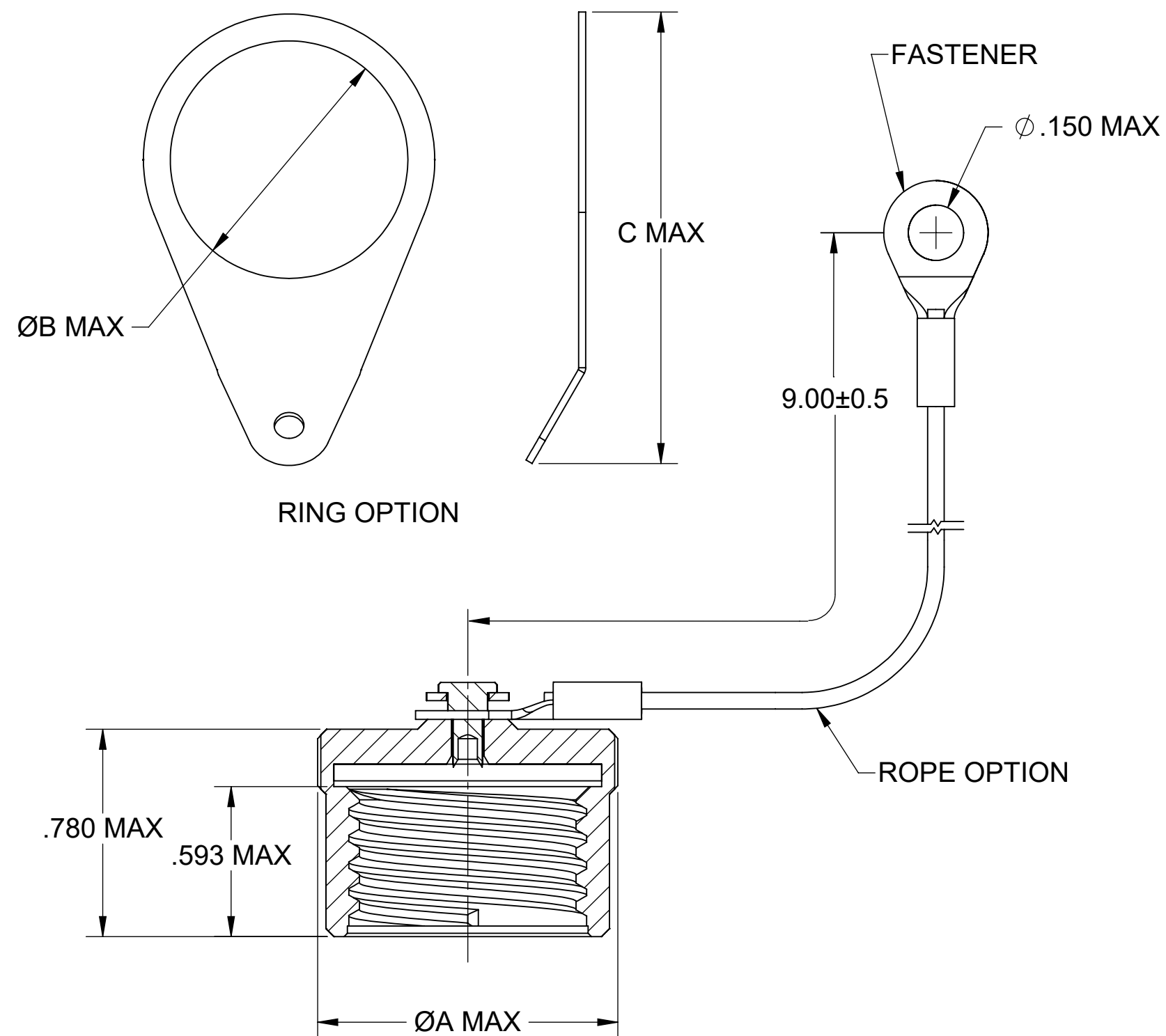
M28876/28
45° BACKSHELL

BACKSHELL DIMENSIONS							
SHELL SIZE	A MAX	B MAX	C MAX	D MAX	E MAX	F MAX	G HEX
13	1.20	4.00	1.20	5.20	3.20	3.20	3.10
15	1.50	4.70	1.30	5.40	3.20	3.20	3.10
23	2.25	6.50	2.25	6.75	4.20	6.50	4.20

SIZE	CAGE CODE	DWG NO	REV
C	ØYPM2	M28876	C
SCALE	1.5:1	SHEET	7 OF 9

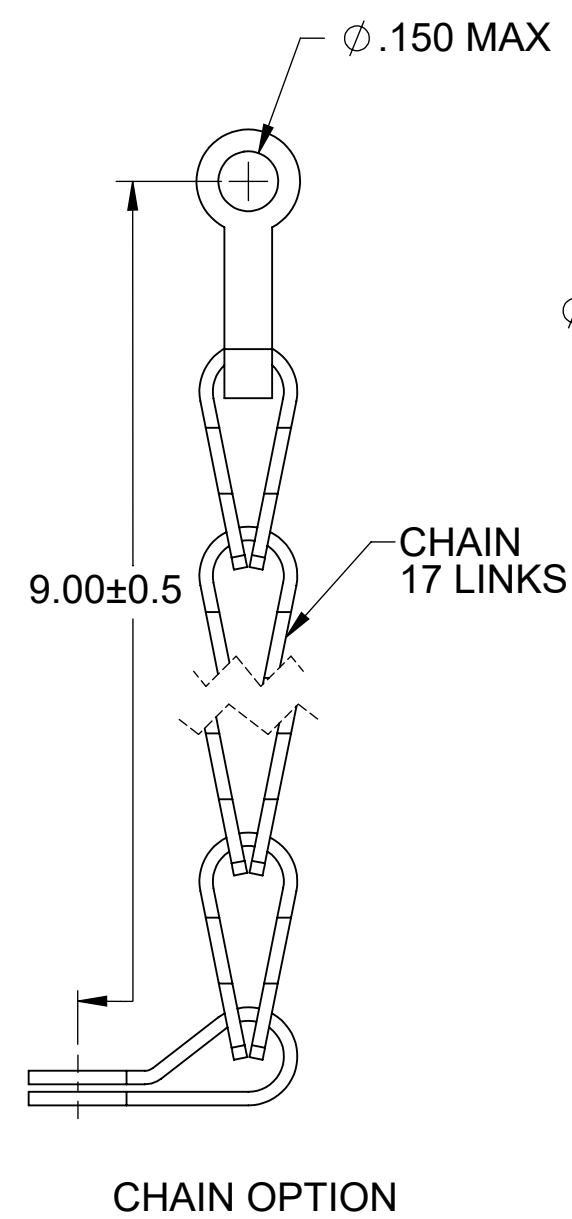
TOP ASSY: 217-109 217-209 217-308
217-115 217-210 217-313
217-118 217-213 217-322

FIGURE 7
DUST CAPS

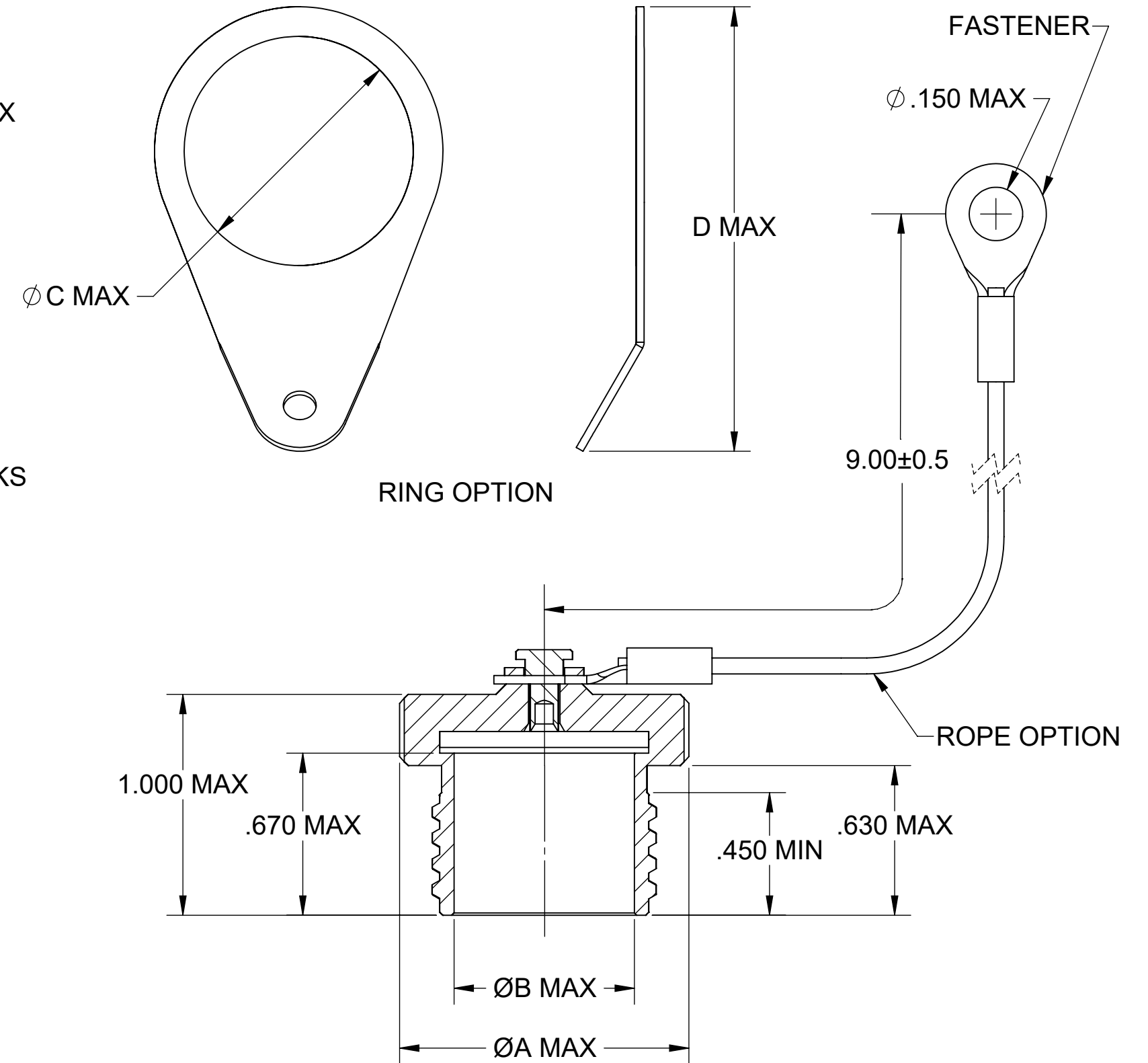


M28876/15
RECEPTACLE DUST CAP

RECEPTACLE DUST CAP DIMENSIONS			
SHELL SIZE	A MAX	B MAX	C MAX
13	1.141	1.025 1.005	1.950
15	1.263	1.215 1.195	2.050
23	1.703	1.650 1.630	2.690



CHAIN OPTION



M28876/10
PLUG DUST CAP

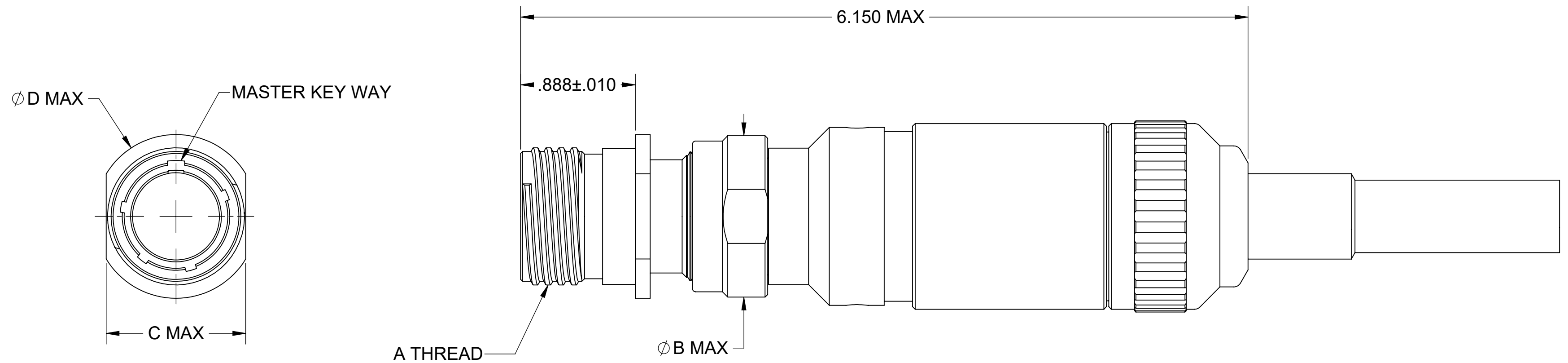
PLUG DUST CAP DIMENSIONS				
SHELL SIZE	A MAX	B MAX	C MAX	D MAX
13	1.141	0.705 0.693	0.900 0.880	1.800
15	1.263	0.877 0.865	1.025 1.005	1.950
23	1.703	1.299 1.287	1.463 1.443	2.483

SIZE	CAGE CODE	DWG NO	REV
C	ØYPM2	M28876	C
SCALE	1.5:1		SHEET 8 OF 9

TOP ASSY: 217-120 217-122
217-200 217-202
217-316 217-318

C:\eng_vault\217\M28876.SLDDRW

FIGURE 8
INLINE RECEPTACLE WITH BACKSHELL



M28876/5
INLINE WITH STRAIGHT BACKSHELL

INLINE WITH BACKSHELL DIMENSIONS				
SHELL SIZE	A THREAD 2A-.1P-.2L-D.S	B MAX	C MAX	D MAX
13	.875	1.085	.893	1.088
15	1.062	1.255	1.080	1.275
23	1.500	1.695	1.518	1.719

SIZE	CAGE CODE	DWG NO	REV
C	ØYPM2	M28876	C
SCALE	1.5:1	SHEET	9 OF 9

Mouser Electronics

Authorized Distributor

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[Amphenol:](#)

[M28876/7B12P1](#) [M28876/1B1S1](#) [M28876/1F1S1](#) [M28876/11B1S1](#) [M28876/7-F12S1](#) [M28876/7C21P2](#)
[M28876/7C21P3](#) [M28876/7C21P4](#) [M28876/7B12P3](#) [M28876/7B11P1](#) [M28876/27C-3](#) [M28876/8C13P6](#)
[M28876/27B2](#) [M28876/27B](#) [M28876/6F2P3](#) [M28876/7F23P4](#) [M28876/7F23P3](#) [M28876/6B1P2](#) [M28876/29B2](#)
[M28876/1C1S1](#) [M28876/7B12P6](#) [M28876/9C13P1](#) [M28876/7B12P4](#) [M28876/27-C4](#) [M28876/9B12P1](#) [M28876/15-](#)
[FE](#) [M28876/28-C3](#) [M28876/6C1P1N](#) [M28876/5F11S3](#) [M28876/1C1S2](#) [M28876/7C11P3](#) [M28876/5F11S2](#)
[M28876/5F11S4](#) [M28876/1B1S2](#) [M28876/8-C13P1](#) [M28876/27B1](#) [M28876/8F11P1](#) [M28876/5F11S5](#)