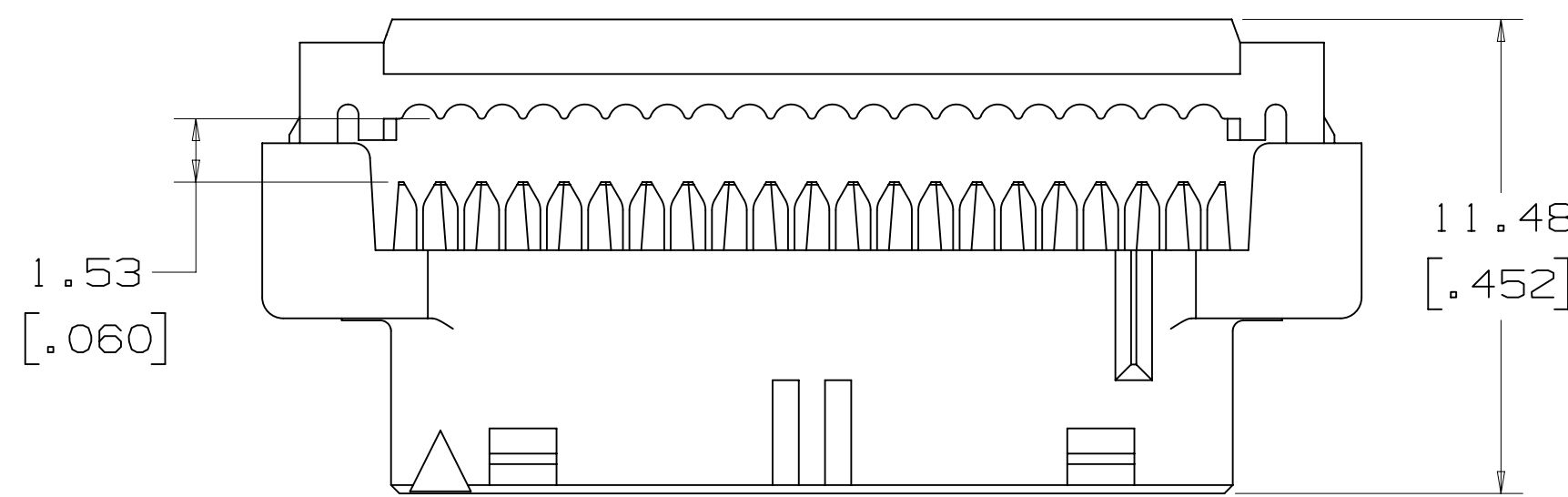
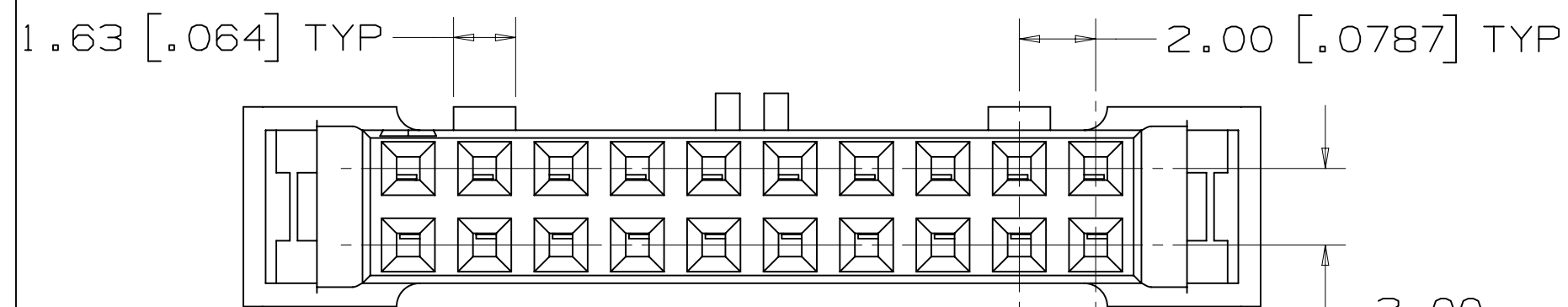
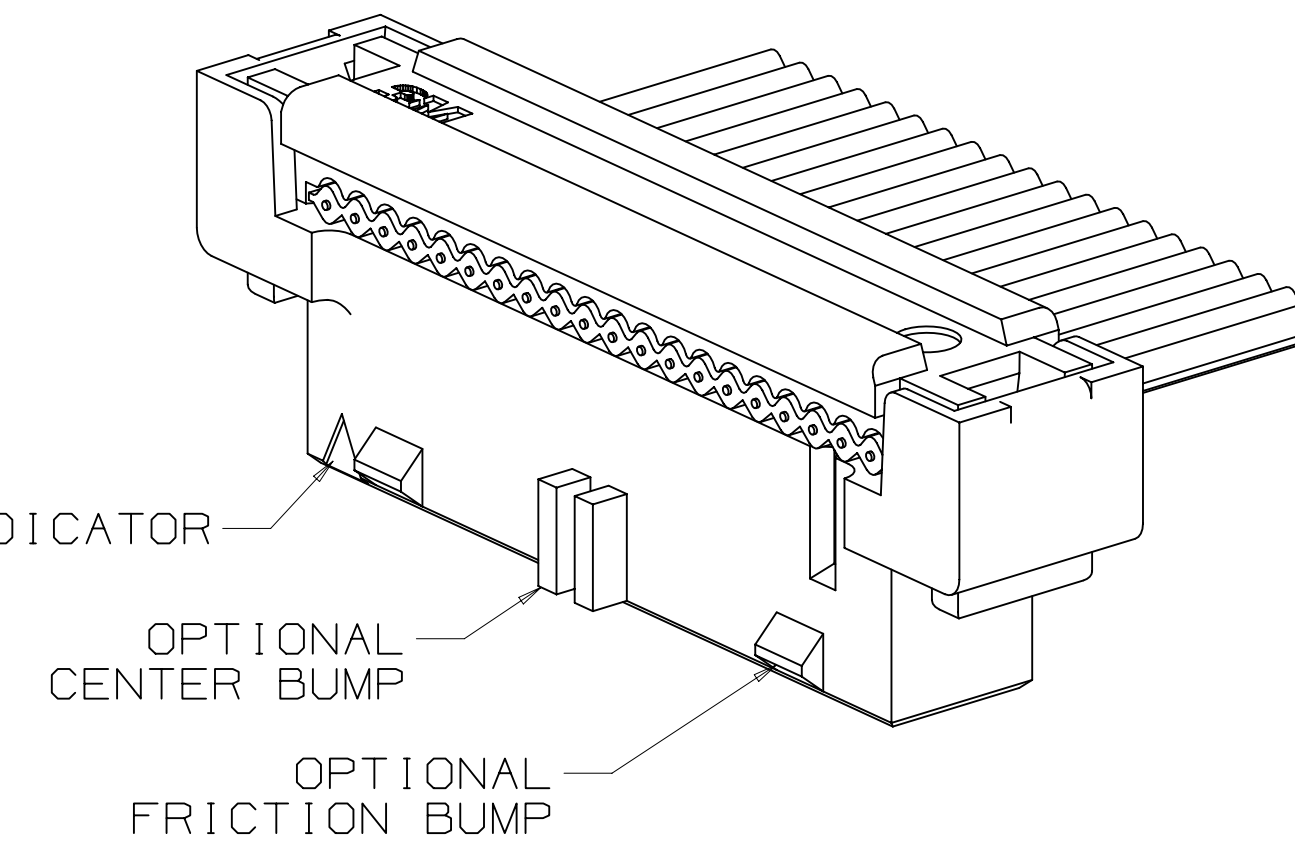
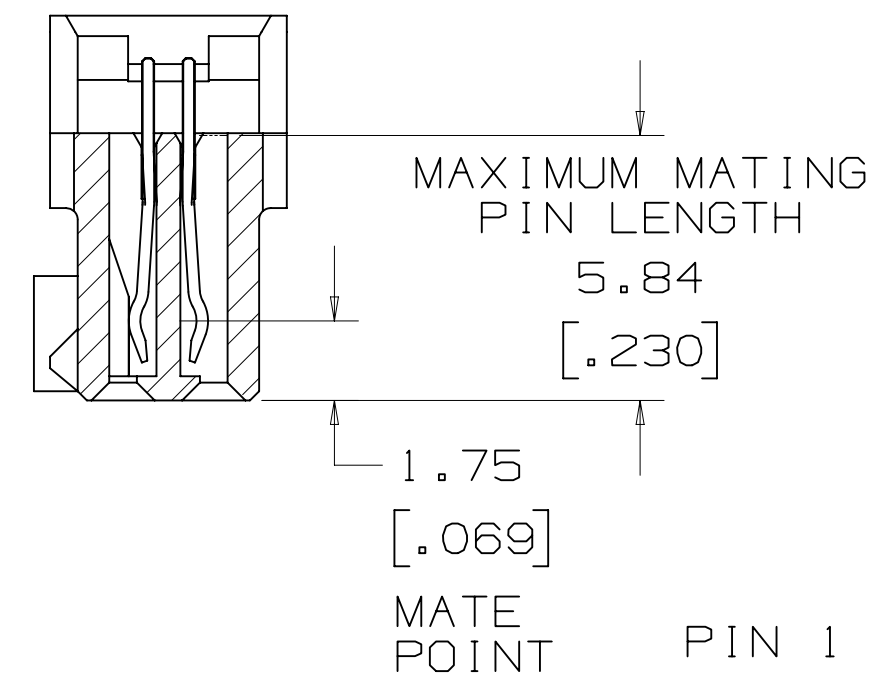
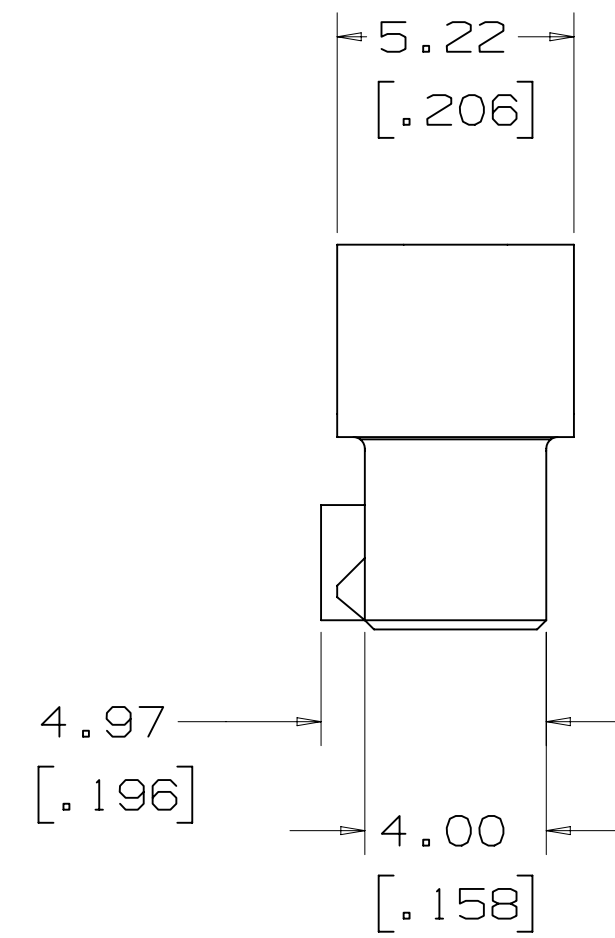
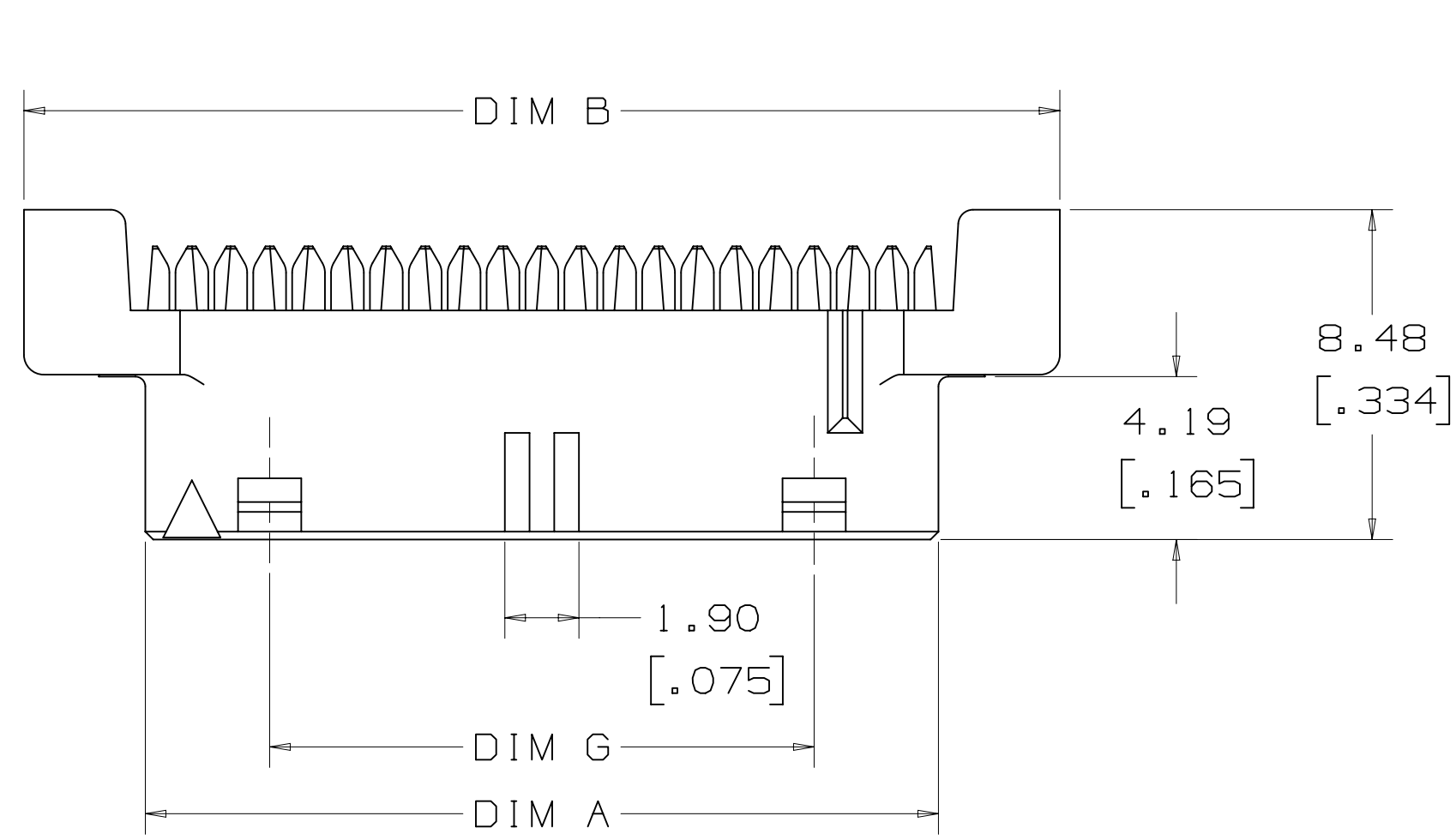
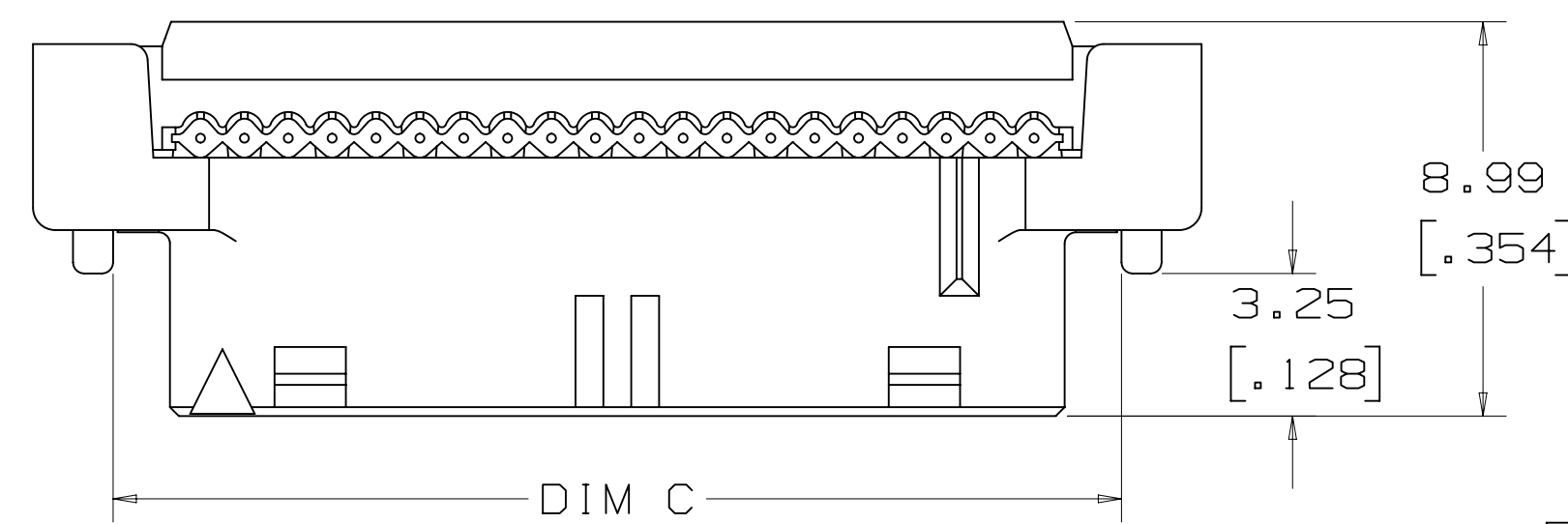
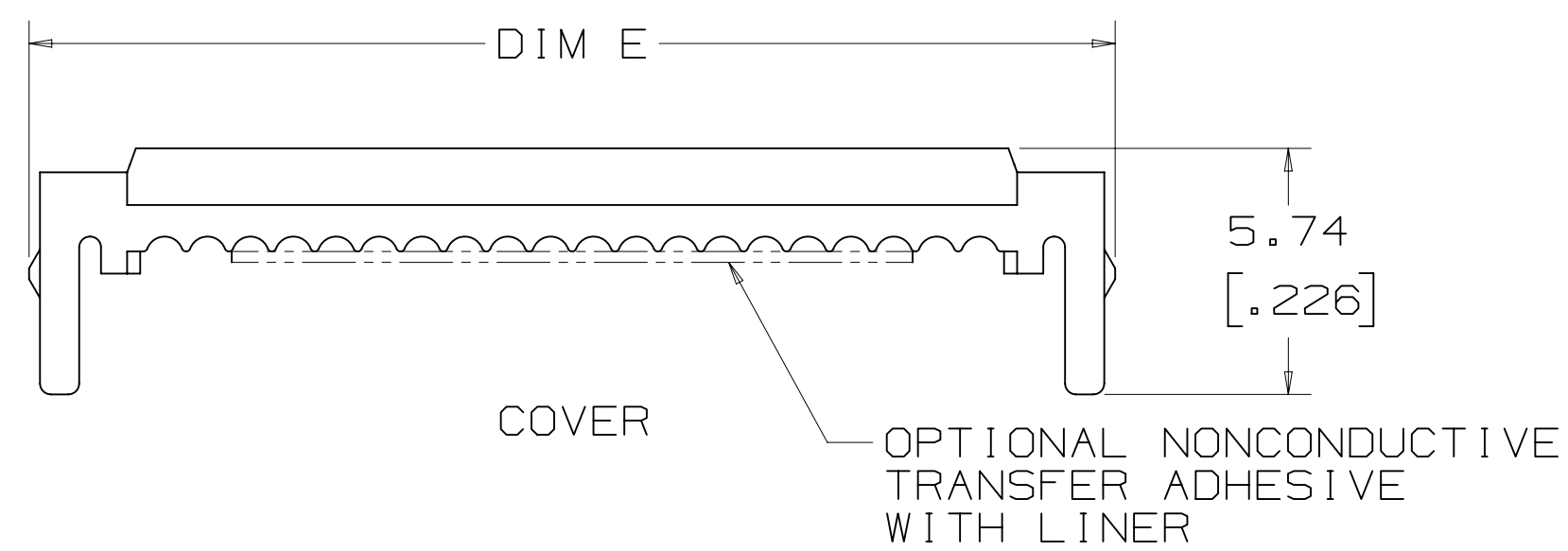


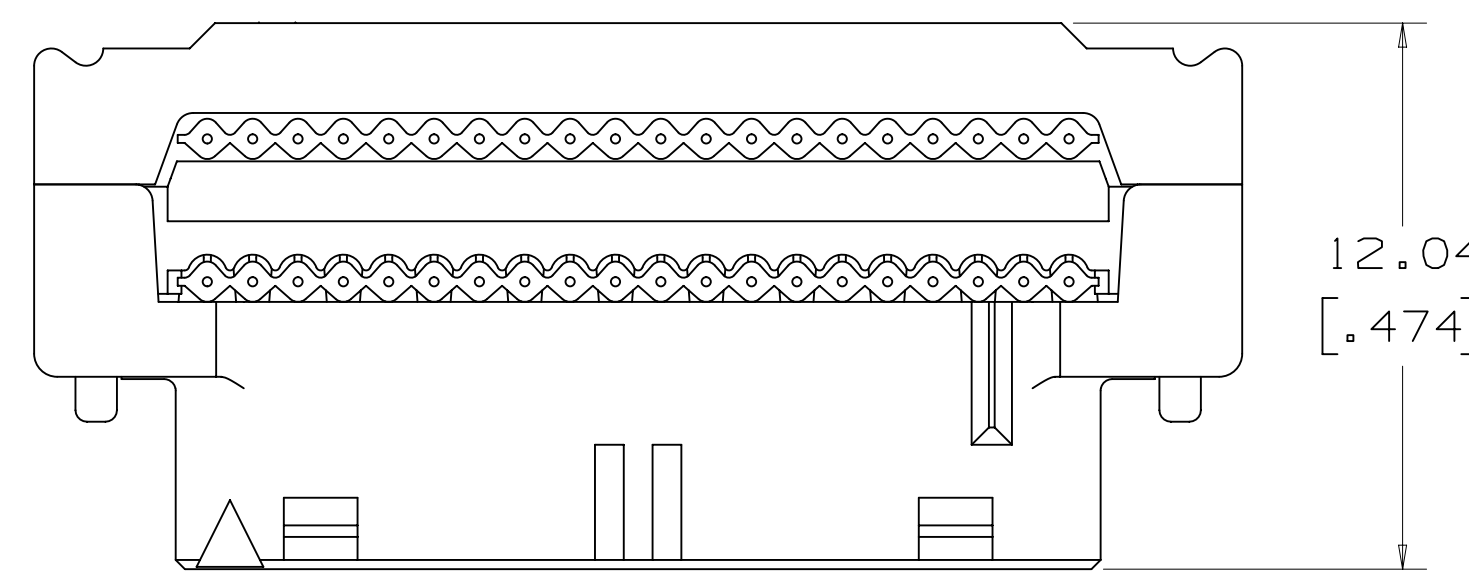
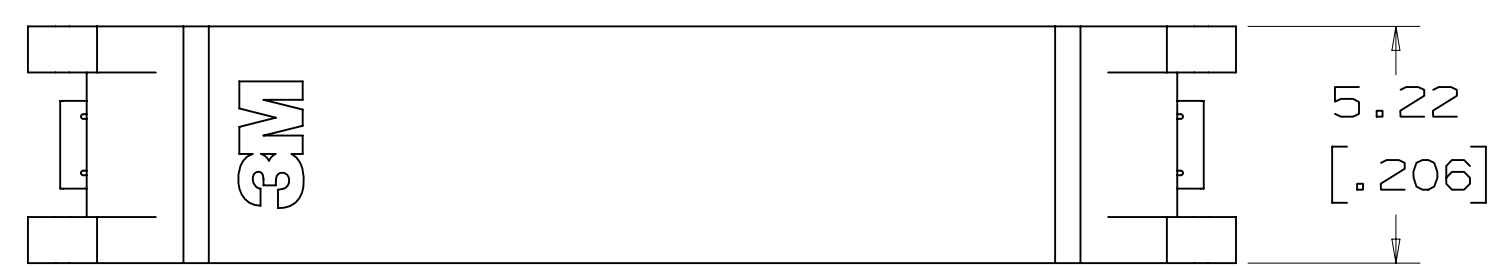
3M™ Ribbon Cable Socket 2 mm X 2 mm Pitch 158 Series



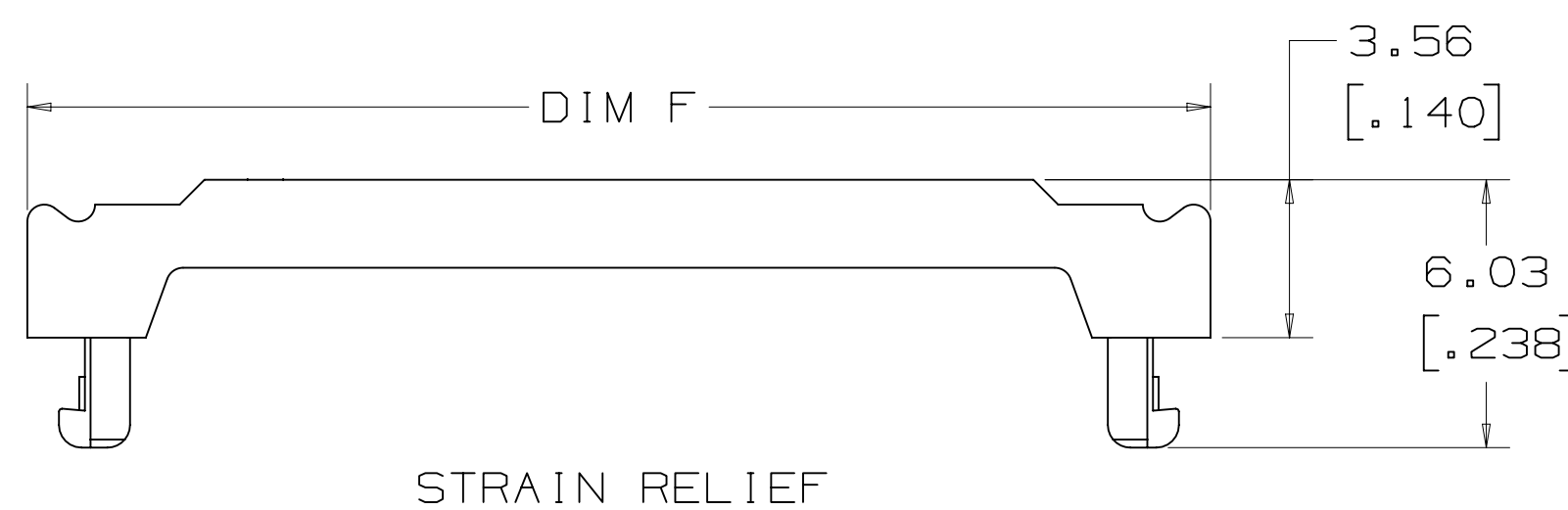
PREASSEMBLED HEIGHT WITH COVER



ASSEMBLED HEIGHT WITH COVER



ASSEMBLED HEIGHT WITH COVER AND STRAIN RELIEF



STRAIN RELIEF

NOTES

- 1 MATERIAL:
BODY: HIGH TEMP GLASS FILLED POLYESTER, GRAY UL94V-0
CONTACTS: COPPER ALLOY
- 2 PLATING:
2.03-3.81 μm [80-150 μin] NICKEL UNDERPLATE
0.38 μm [15 μin] OR 0.76 μm [30 μin] AVG GOLD ON WIPING AREA.
- 3 RIBBON CABLE:
RECOMMENDED: 3M™ 3625 (28 AWG, 7 STRAND).
- 4 APPLICATION TOOLS:
3460 PRESS (OR EQUIVALENT) 3443-119 LOCATOR PLATE, 3442-9 PLATEN
SEE 3M INSTRUCTION SHEET 78-9101-2810-3.
- 5 MATES WITH 3M™ HEADERS 159 SERIES (REFERENCE 3M DRAWING 78-5100-2359-7). (0.51 mm [.020 in] SQ, CROWNED PINS).
- 6 SEE THE REGULATORY INFORMATION APPENDIX (RIA) IN THE "RoHS COMPLIANCE" SECTION OF WWW.3MCONNECTOR.COM FOR COMPLIANCE INFORMATION (RIA E1 & C1 APPLY).
- 7 FOR PRODUCT SPECIFICATIONS AND WARRANTY INFORMATION SEE 3M 78-5102-0078-1.
- 8 IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.

PERFORMANCE [7] [8]	
CURRENT:	1.25 A, ALL LINES ENERGIZED 2.00 A, 6 LINES ENERGIZED 2.75 A, 1 LINE ENERGIZED
INSULATION RESISTANCE:	>1X10 ⁹ OHMS AT 500 VDC
WITHSTANDING VOLTAGE:	500 VACrms AT SEA LEVEL
TEMPERATURE RATING:	-55°C TO +125°C

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
A	30741	OCT 28, 2010 INITIAL RELEASE	LDS	SF
G	73037	OCT 27, 2017 UPDATED PERFORMANCE TABLE REMOVED REV D,E,F HISTORY	SBC	SAN

DESIGN REFERENCE	NEXT ASSEMBLY
SCALE	SCALE
TOLERANCES EXCEPT AS NOTED	TOLERANCES EXCEPT AS NOTED
INTERPRET PER ASME Y14.5 - 2009	INTERPRET PER ASME Y14.5 - 2009
MAX SURFACE ROUGHNESS	MAX SURFACE ROUGHNESS
ANGLES	ANGLES

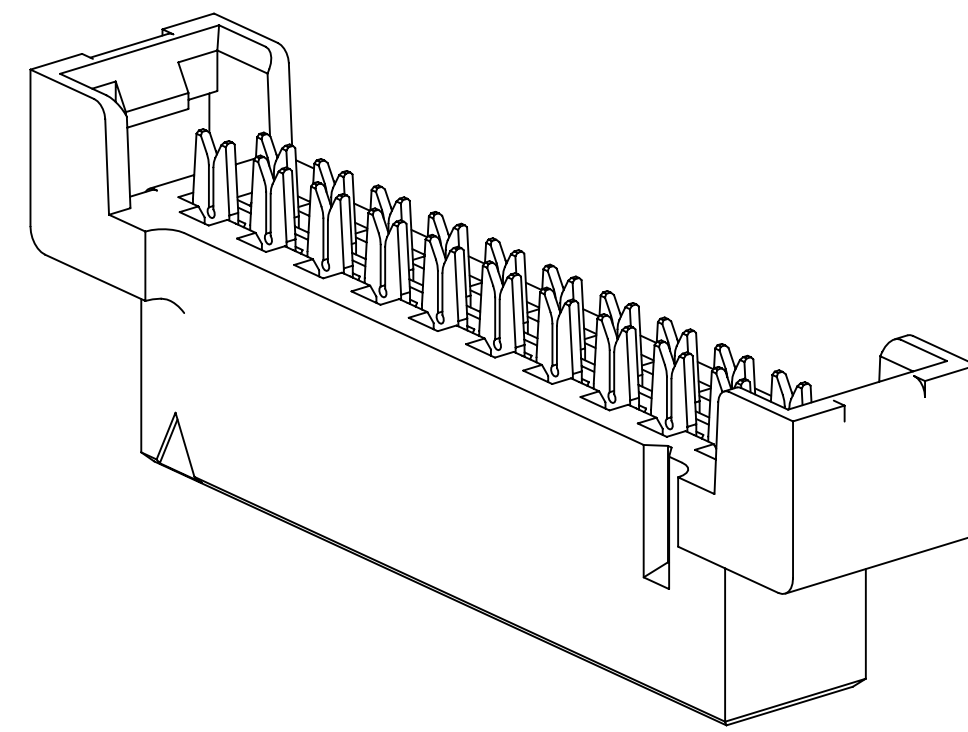
		© 3M COPYRIGHT 2017 This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.
TITLE 3M RIBBON CABLE SOCKET 2 MM x 2 MM PITCH 158 SERIES		
CAGE NUMBER	SIZE	DRAWING NO.
D		78-5100-2358-9
REV.	G	
MODEL	SHT 1 OF 3	

METRIC [ENGLISH]

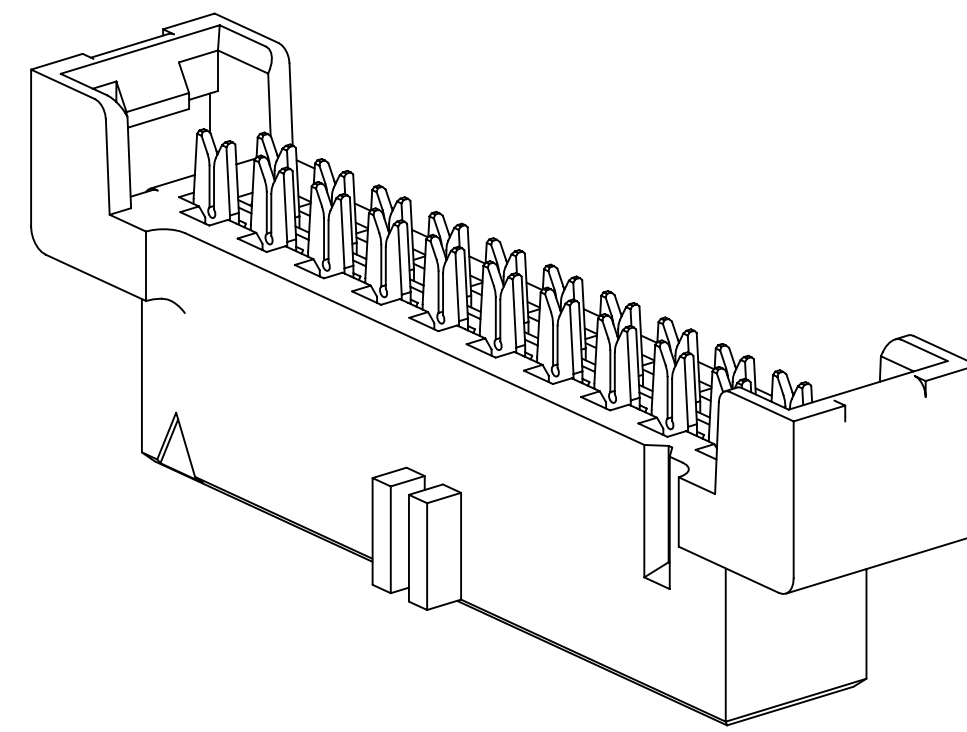
 UL FILE NO: E68080

3M™ Ribbon Cable Socket 2 mm X 2 mm Pitch 158 Series

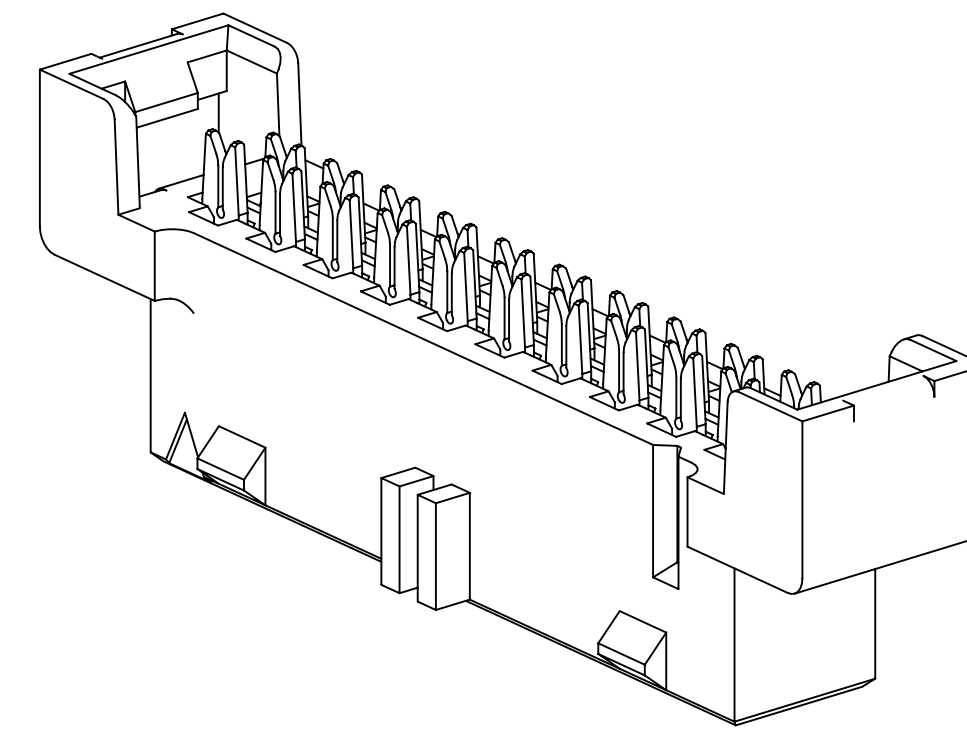
NUMBER OF POSITIONS	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G
6	6.39 [.252]	12.64 [.497]	8.98 [.354]	10.81 [.426]	11.32 [.446]	12.64 [.497]	N/A
8	8.39 [.330]	14.64 [.576]	10.98 [.432]	12.81 [.504]	13.32 [.524]	14.64 [.576]	N/A
10	10.39 [.409]	16.64 [.655]	12.98 [.511]	14.81 [.583]	15.32 [.603]	16.64 [.655]	N/A
12	12.39 [.488]	18.64 [.734]	14.98 [.590]	16.81 [.662]	17.32 [.682]	18.64 [.734]	N/A
14	14.39 [.567]	20.64 [.812]	16.98 [.669]	18.81 [.741]	19.32 [.761]	20.64 [.812]	8.00 [.315]
16	16.39 [.645]	22.64 [.891]	18.98 [.747]	20.81 [.819]	21.32 [.839]	22.64 [.891]	10.00 [.394]
20	20.39 [.803]	26.64 [1.049]	22.98 [.905]	24.81 [.977]	25.32 [.997]	26.64 [1.049]	14.00 [.551]
22	22.39 [.882]	28.64 [1.127]	24.98 [.984]	26.81 [1.056]	27.32 [1.076]	28.64 [1.127]	16.00 [.630]
24	24.39 [.960]	30.64 [1.206]	26.98 [1.062]	28.81 [1.134]	29.32 [1.154]	30.64 [1.206]	18.00 [.709]
26	26.39 [1.039]	32.64 [1.285]	28.98 [1.141]	30.81 [1.213]	31.32 [1.233]	32.64 [1.285]	20.00 [.787]
30	30.39 [1.197]	36.64 [1.442]	32.98 [1.299]	34.81 [1.371]	35.32 [1.391]	36.64 [1.442]	24.00 [.945]
34	34.39 [1.354]	40.64 [1.600]	36.98 [1.456]	38.81 [1.528]	39.32 [1.548]	40.64 [1.600]	28.00 [1.102]
40	40.39 [1.590]	46.64 [1.836]	42.98 [1.692]	44.81 [1.764]	45.32 [1.784]	46.64 [1.836]	34.00 [1.339]
44	44.39 [1.748]	50.64 [1.994]	46.98 [1.850]	48.81 [1.922]	49.32 [1.942]	50.64 [1.994]	38.00 [1.496]
50	50.39 [1.984]	56.64 [2.230]	52.98 [2.086]	54.81 [2.158]	55.32 [2.178]	56.64 [2.230]	44.00 [1.732]



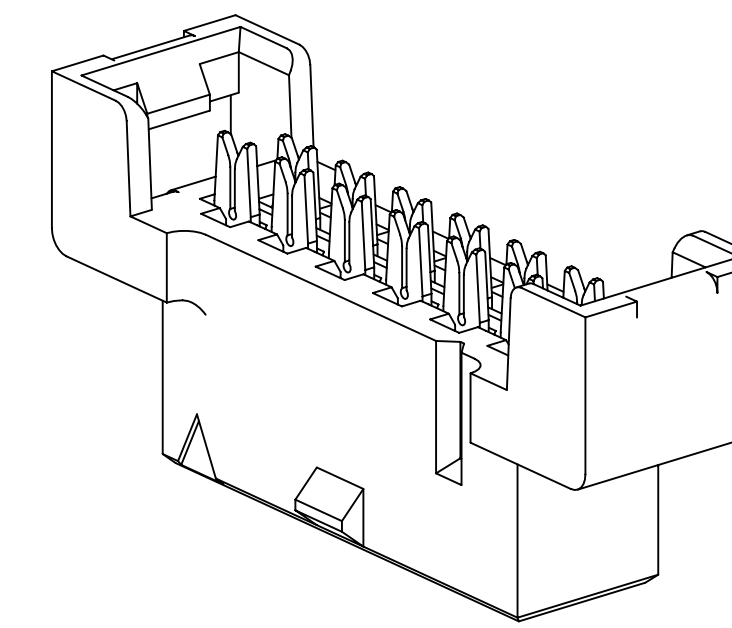
SOCKET WITHOUT OPTIONS
ALL POSITIONS



CENTER BUMP OPTION
ALL POSITIONS



CENTER BUMP WITH
FRICTION BUMP OPTION
14-50 POSITIONS



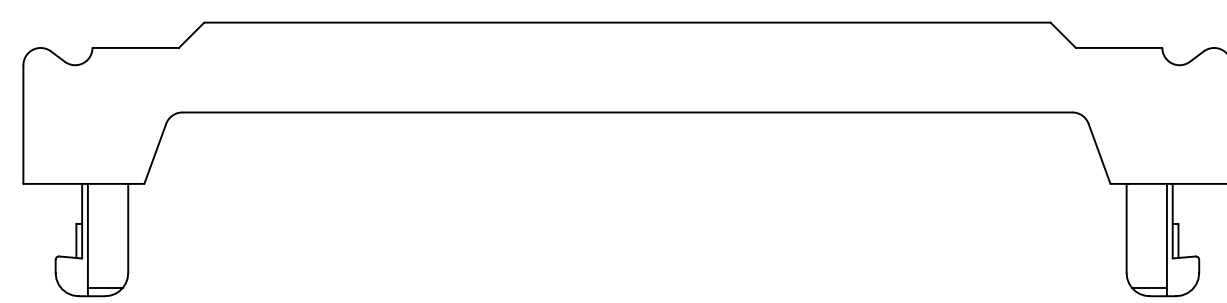
CENTER FRICTION BUMP OPTION
6-12 POSITIONS ONLY

ORDERING INFORMATION

TIER 1 - BEST
1581XX-1X00
 TIER 1 = BEST
 POSITION COUNT (SEE TABLE)
 PART CONFIGURATION 1 = ADHESIVE COVER
 POLARIZATION/LATCHING
 1 = WITH CENTER BUMP, NO FRICTION BUMPS (6-50 POS)
 PLATING BLANK = 0.76 μm [30 μin] GOLD
 PACKAGING 0 = TRAY

TIER 2 - BETTER
1582XX-0X20XX
 TIER 2 = BETTER
 POSITION COUNT (SEE TABLE)
 PART CONFIGURATION 0 = PREASSEMBLED COVER
 POLARIZATION/LATCHING
 0 = NO CENTER BUMP, NO FRICTION BUMPS (6-50 POS)
 1 = WITH CENTER BUMP, NO FRICTION BUMPS, (6-50 POS)
 2 = WITH CENTER BUMP AND DUAL FRICTION BUMPS (14-50 POS ONLY)
 3 = WITH CENTRAL FRICTION BUMP, NO CENTER BUMP (6-12 POS ONLY)
 PLATING BLANK = 0.76 μm [30 μin] GOLD
 15 = 0.38 μm [15 μin] GOLD
 PACKAGING 2 = SWORDS

TIER 3 - VALUE
1583XX-211015
 TIER 3 = VALUE
 POSITION COUNT (SEE TABLE)
 PART CONFIGURATION 2 = SEPARATE COVER
 POLARIZATION/LATCHING
 1 = WITH CENTER BUMP, NO FRICTION BUMPS (6-50 POS)
 PLATING 15 = 0.38 μm [15 μin] GOLD
 PACKAGING 1 = BULK PACK

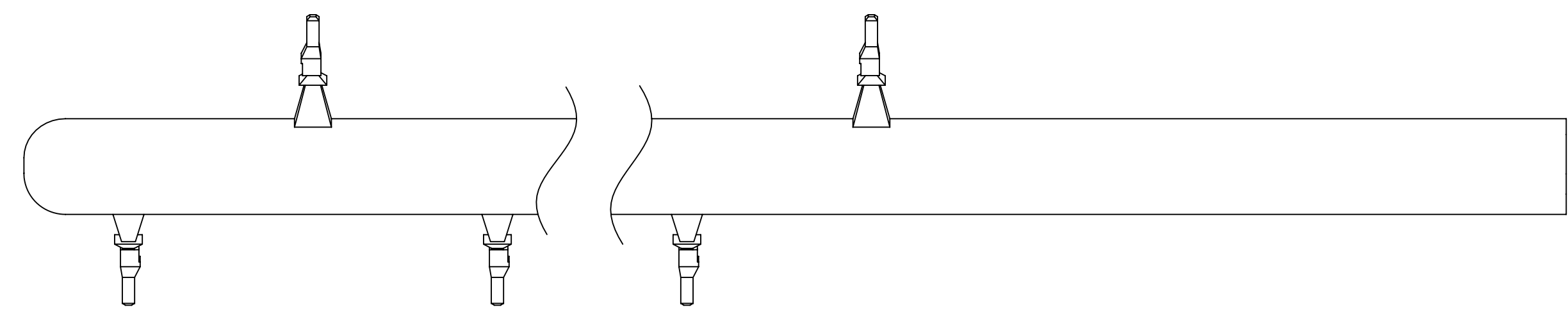


STRAIN RELIEF
3448-158XX
POSITION COUNT (SEE TABLE)

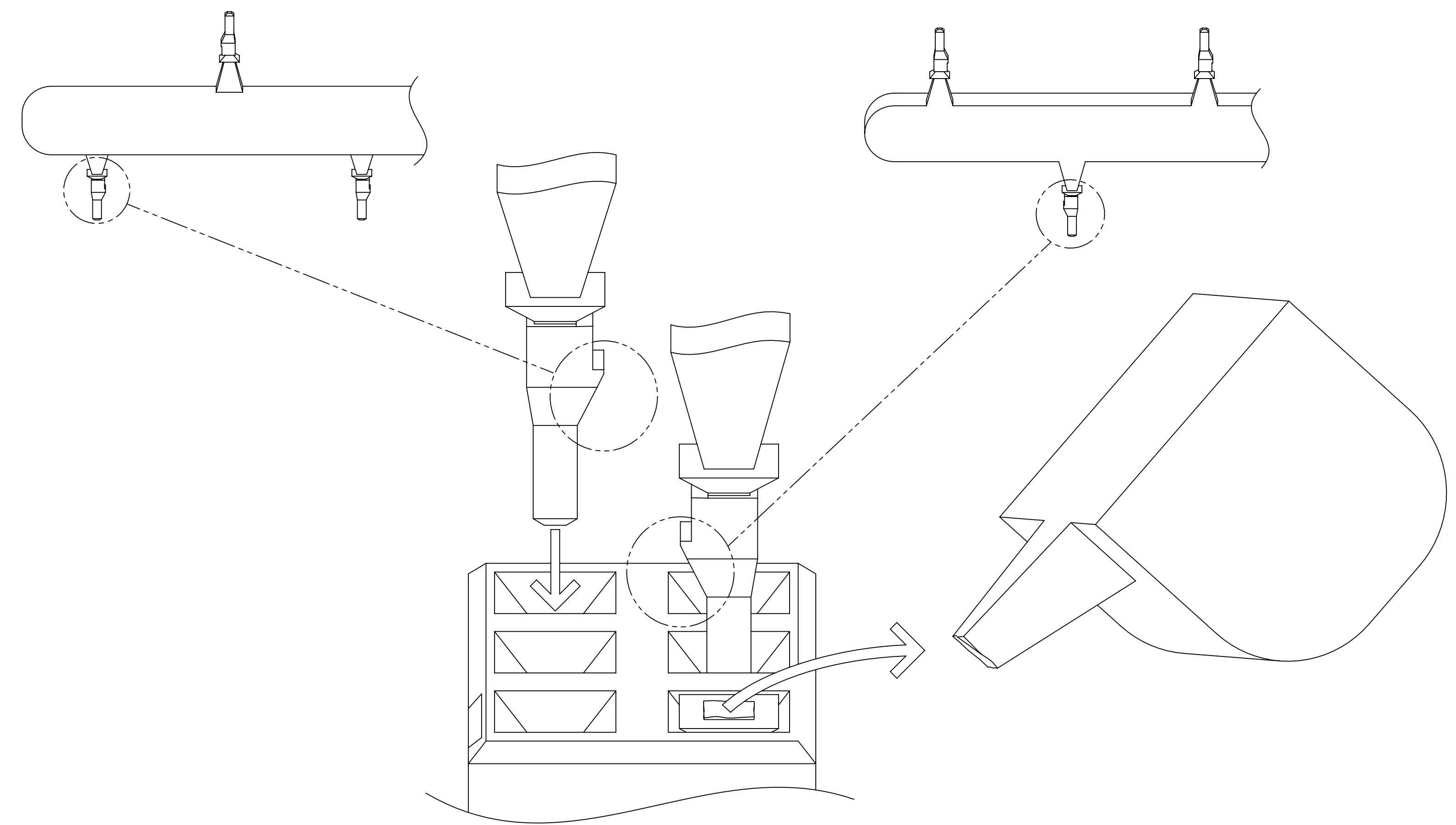
METRIC [ENGLISH]

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
		L. SCHMIDT		JUL 23, 2010		
DIVISION		DIVISION CODE		DATE		
DO NOT SCALE DRAWING		SCALE 6/1		TOLERANCES EXCEPT AS NOTED		
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS 0 ± 2		
MAX SURFACE ROUGHNESS 125		ALL SURFACES		MILLIMETERS .00 ± .13		
MARKED ONLY		ANGLES ± 1°		INCHES .00 ± .005		
TITLE		CAGE NUMBER		DRAWING NO.		REV.
3M RIBBON CABLE SOCKET 2 MM x 2 MM PITCH 158 SERIES		D 78-5100-2358-9		G		G
MODEL		DET		YES		NO
				SHT 2 OF 3		

3M™ Ribbon Cable Socket 2 mm X 2 mm Pitch 158 Series



POLARIZING KEY
3435-152200



POLARIZING KEY ORIENTATION AND INSTALLATION

RIBBON CABLE SOCKET ACCESSORIES

METRIC [ENGLISH]

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DO NOT SCALE DRAWING	SCALE 1/1	TOLERANCES EXCEPT AS NOTED				
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	MILLIMETERS 0 ± 2		© 3M COPYRIGHT 2017 This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.		
MAX SURFACE ROUGHNESS 125	<input type="checkbox"/> ALL SURFACES <input checked="" type="checkbox"/> MARKED ONLY	INCHES .00 ± .0000		TITLE 3M RIBBON CABLE SOCKET 2 MM x 2 MM PITCH 158 SERIES		
		ANGLES ± 1°		CAGE NUMBER D78-5100-2358-9 REV. G		
				MODEL <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SHT 3 OF 3		

3M™ Ribbon Cable Socket 2 mm X 2 mm Pitch 158 Series

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DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
		A		OCT 28, 2010 INITIAL RELEASE	LDS	SF
		G	73037	OCT 27, 2017 UPDATED PERFORMANCE TABLE REMOVED REV D,E,F HISTORY	SBC	SAN
DATE	DATE	DATE	DATE	DATE	DATE	DATE
		JUL 23, 2010		JUL 23, 2010		JUL 30, 2010
DRFT	CHKD	APPV	DATE	DATE	DATE	DATE
		S. FELDMAN				
DIVISION		DIVISION CODE		 3M Center St. Paul, MN 55144 © 3M COPYRIGHT 2017 This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.		
DO NOT SCALE DRAWING	SCALE 1/1	TOLERANCES EXCEPT AS NOTED		INCHES .00 ± .000 ± .0000 ±		
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	MILLIMETERS		.0 ± .00 ± .13 .000 ± .005		
MAX SURFACE ROUGHNESS 125	<input type="checkbox"/> ALL SURFACES	ANGLES ±1°		CAGE NUMBER D 78-5100-2358-9		
	<input checked="" type="checkbox"/> MARKED ONLY	MODEL		DRAWING NO. 78-5100-2358-9		
				REV. G		
				DET. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SHT 3 OF 3		

78-5100-2358-9
 DRAWING NUMBER
 6
 REVISION
 10/27/2017 UTC
 Standard Time
 Central
 6.1
 Imaged: