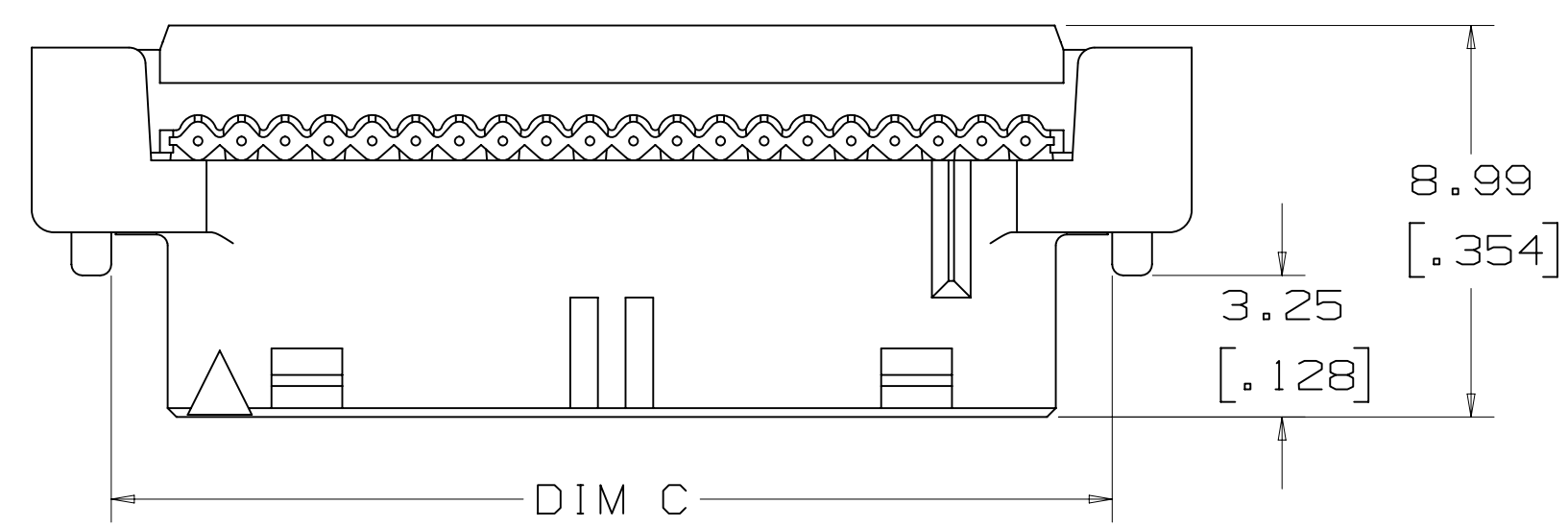
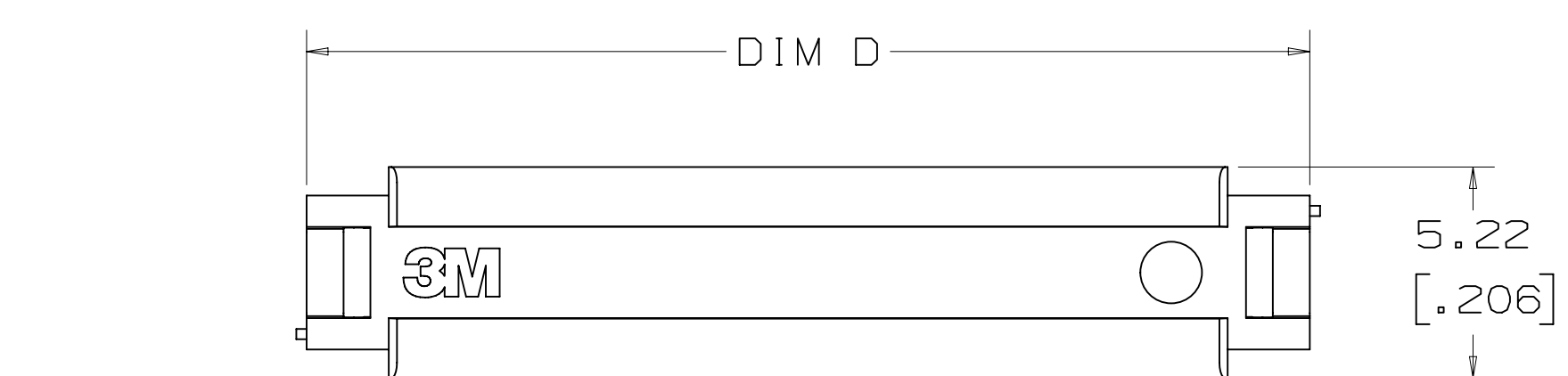
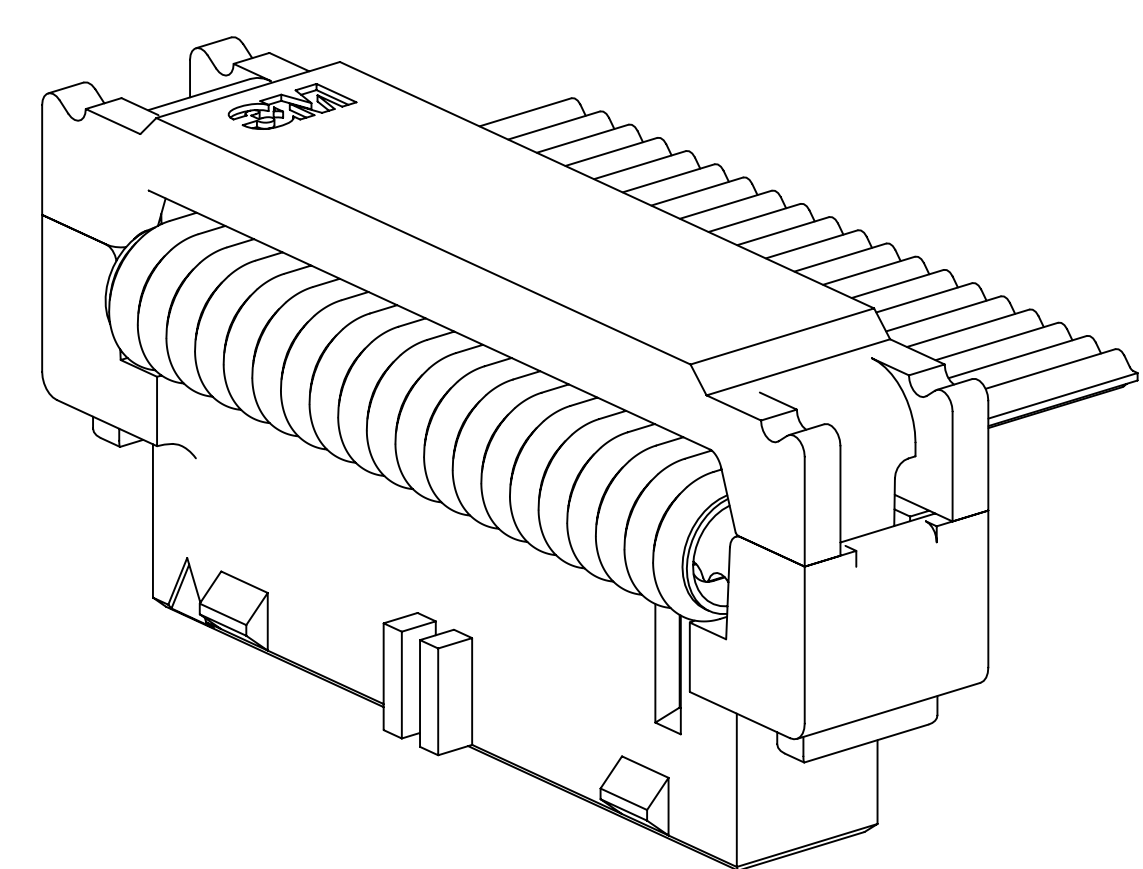
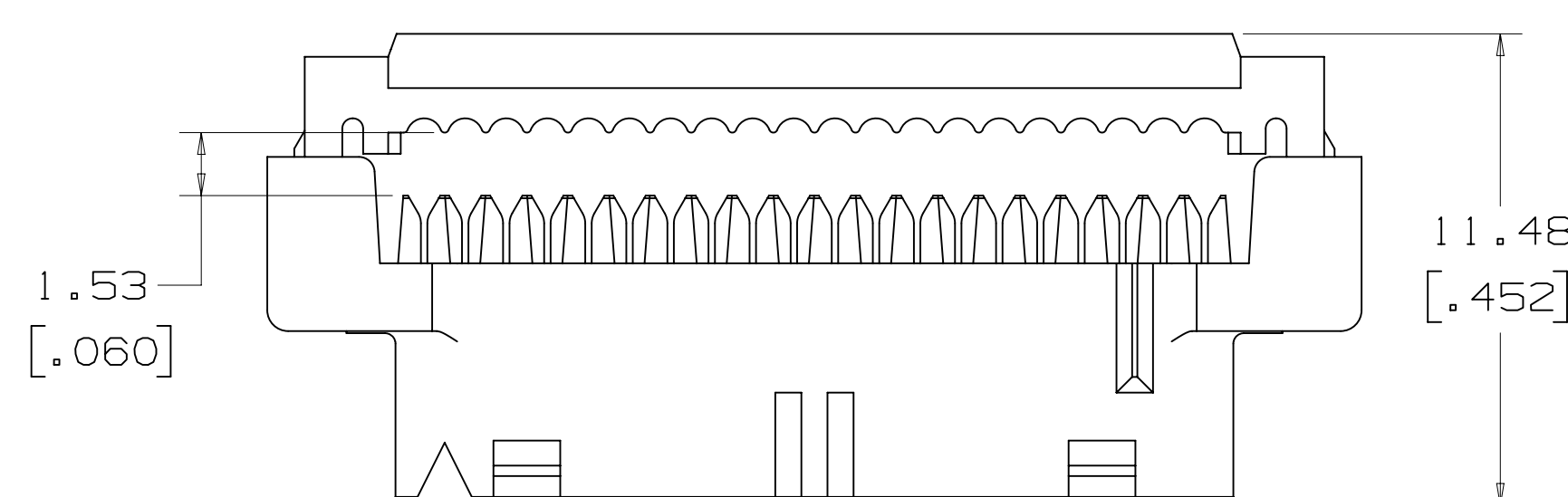
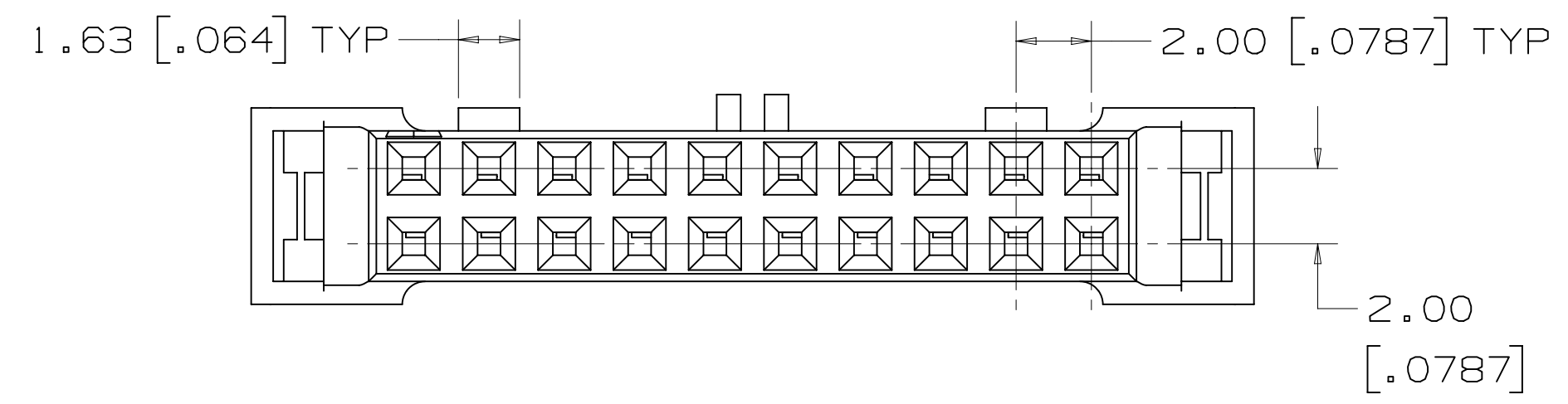
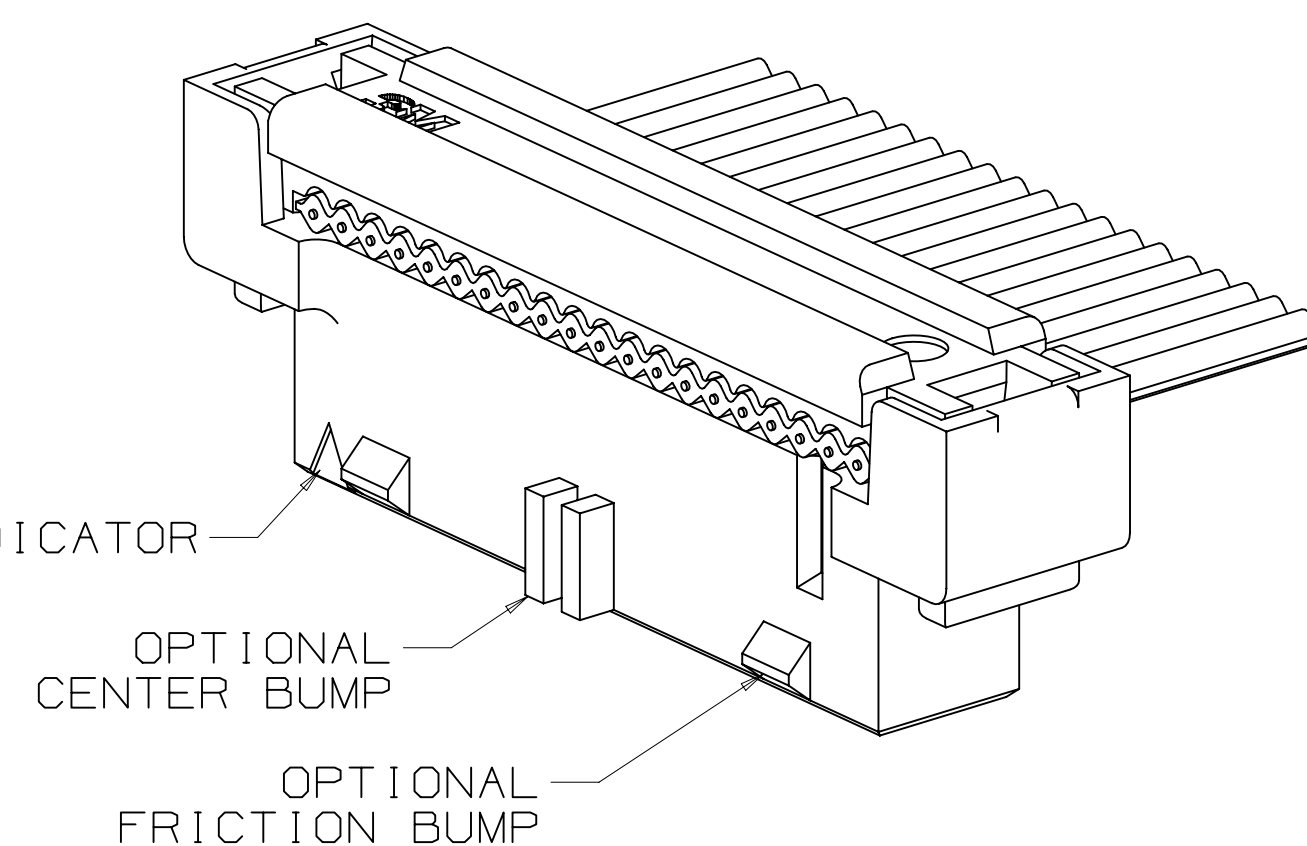
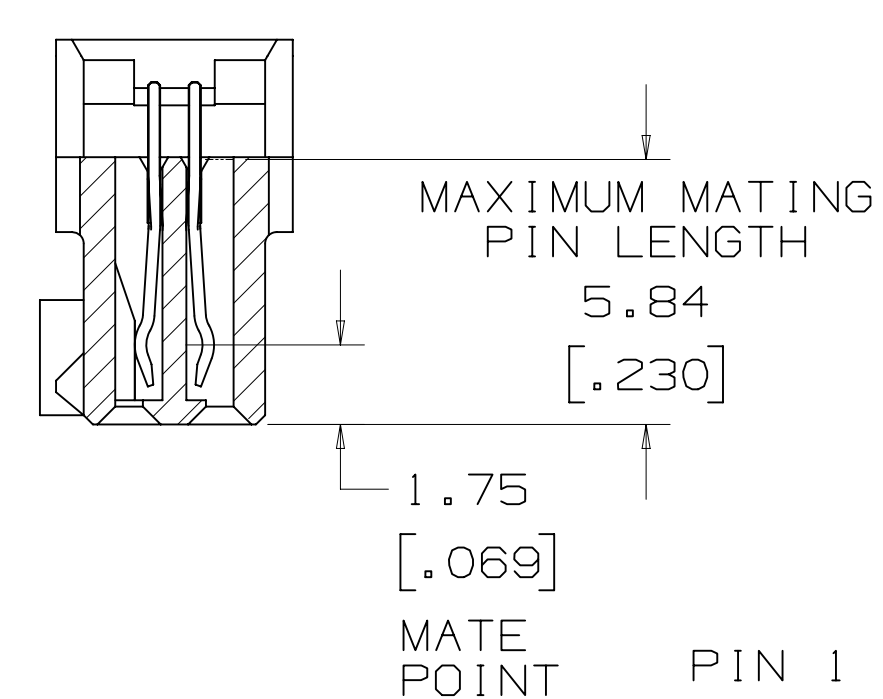
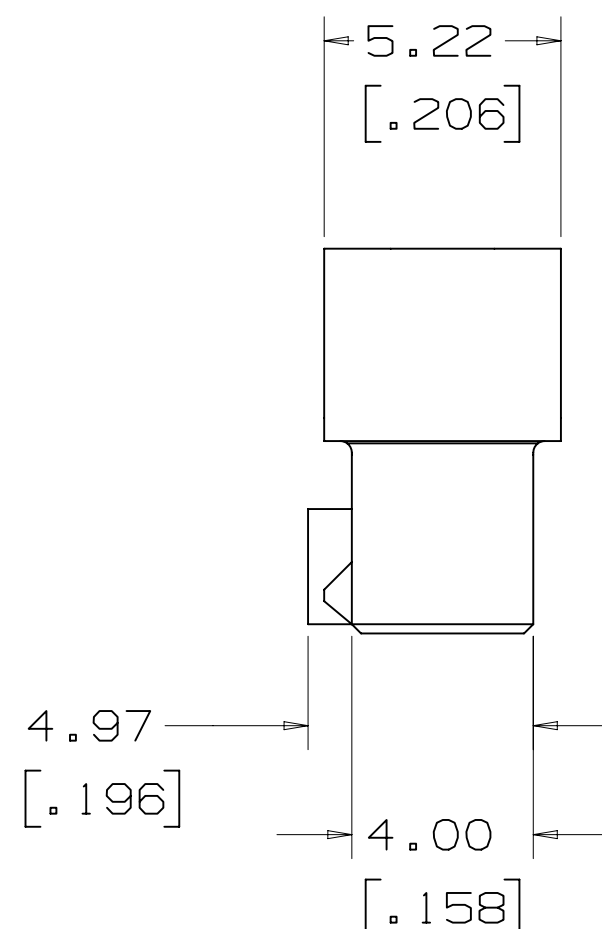
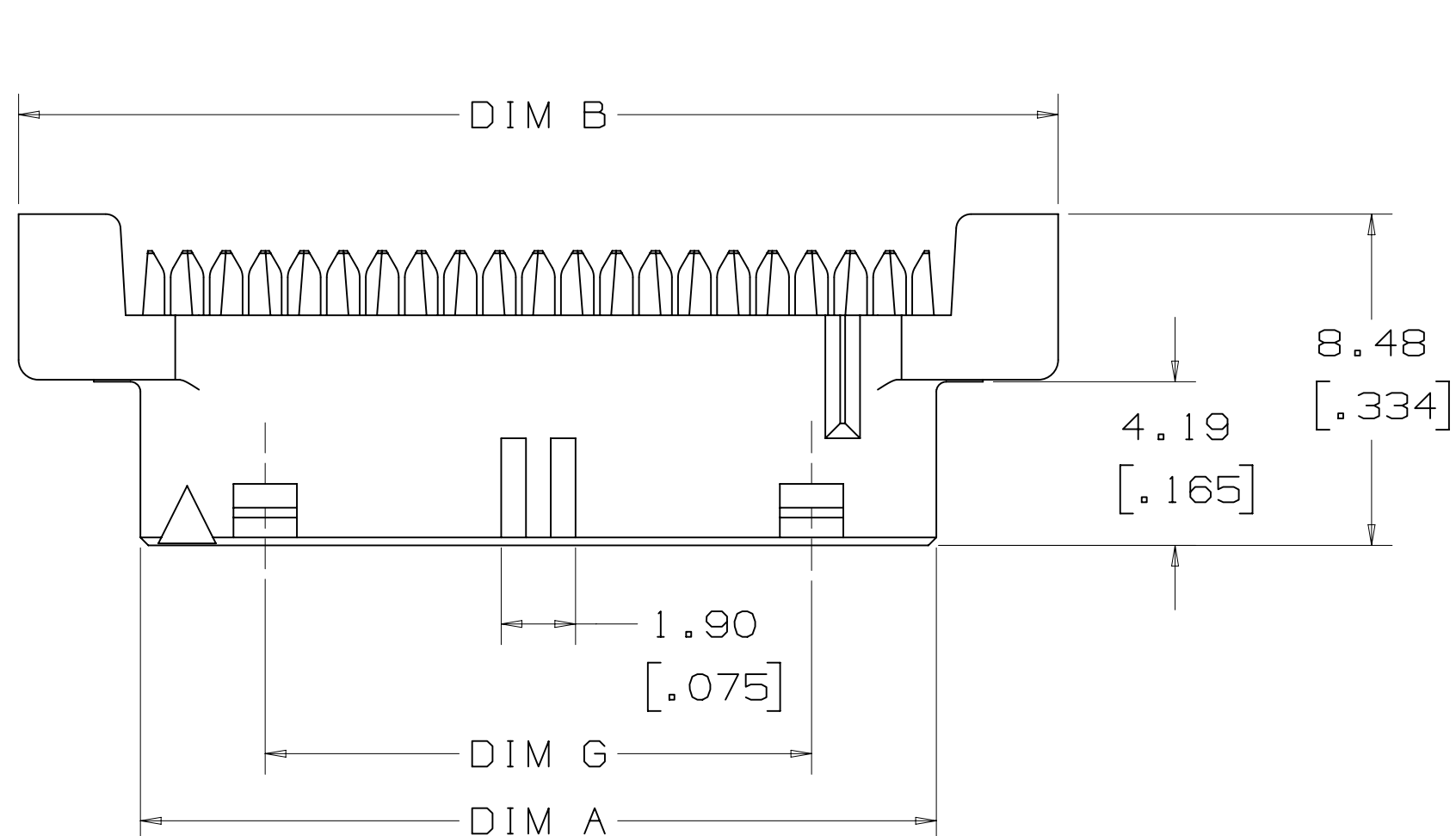
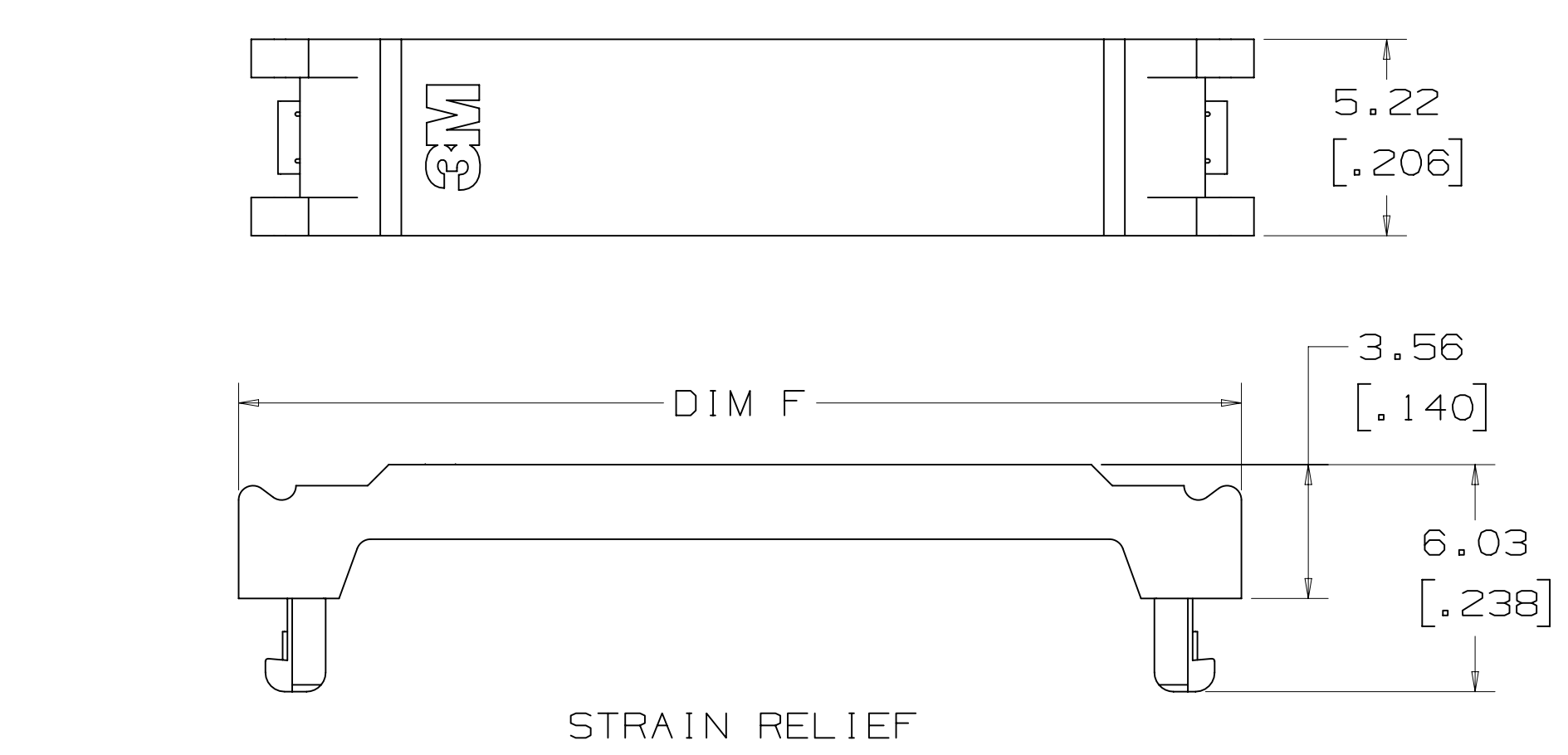
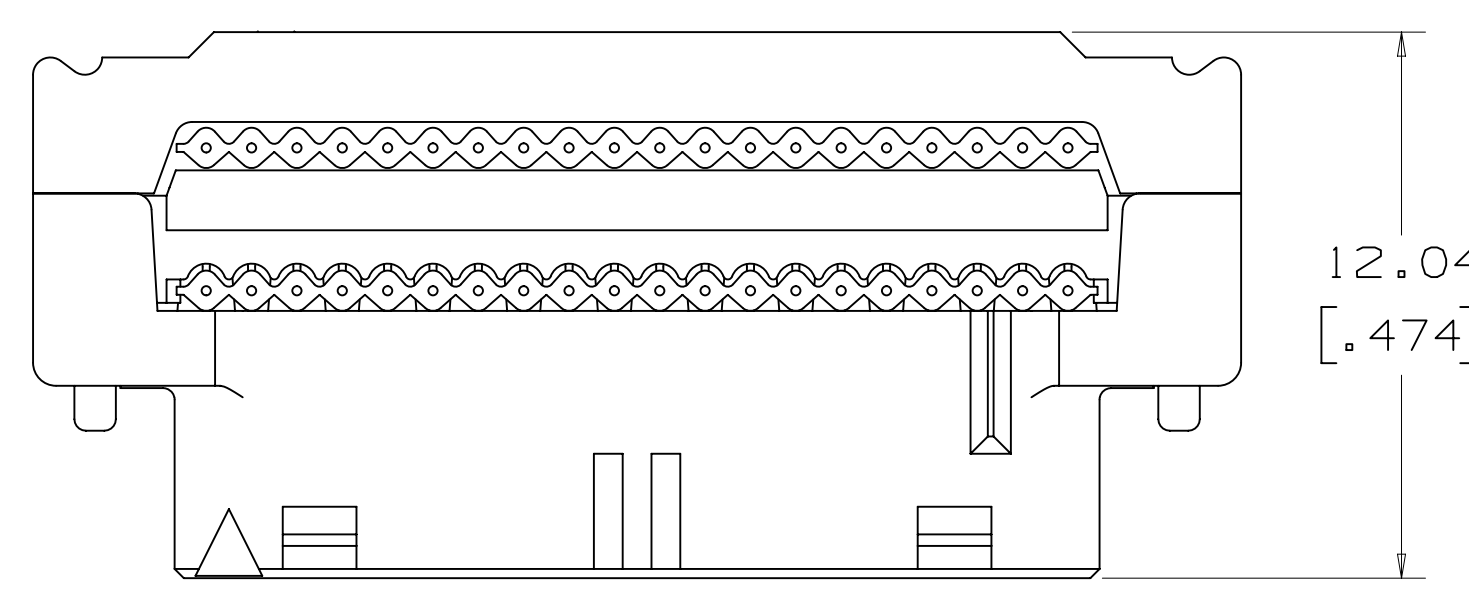
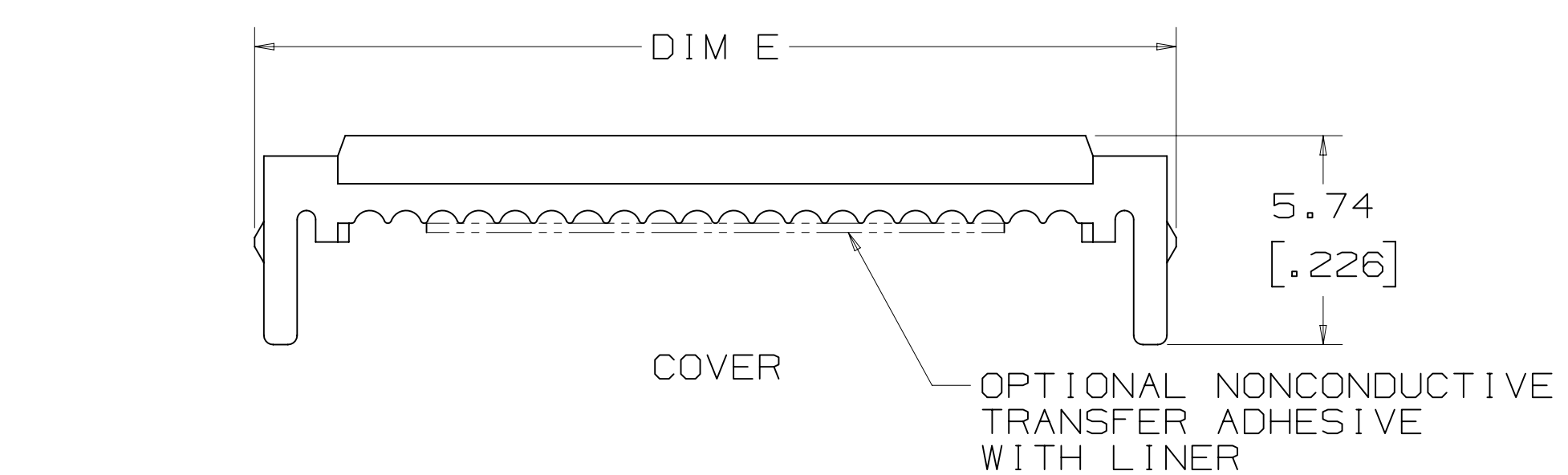


3M™ Ribbon Cable Socket 2 mm X 2 mm Pitch 158 Series



PERFORMANCE [7] [8]	
CURRENT:	1.25 A, ALL LINES ENERGIZED 2.75 A, 6 LINES ENERGIZED 4.75 A, 1 LINE ENERGIZED
INSULATION RESISTANCE:	>1X10 ⁹ OHMS AT 500 VDC
WITHSTANDING VOLTAGE:	500 VACrms AT SEA LEVEL
TEMPERATURE RATING:	-55°C TO +105°C



- NOTES
- MATERIAL:
BODY: HIGH TEMP GLASS FILLED POLYESTER, GRAY UL94V-0
CONTACTS: COPPER ALLOY
 - 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.
 - RIBBON CABLE:
RECOMMENDED: 3M™ 3625 (28 AWG, 7 STRAND).
 - APPLICATION TOOLS:
3460 PRESS (OR EQUIVALENT) 3443-119 LOCATOR PLATE, 3442-9 PLATEN
SEE 3M INSTRUCTION SHEET 78-9101-2810-3.
 - MATES WITH 3M™ HEADERS 159 SERIES (REFERENCE 3M DRAWING 78-5100-2359-7). (0.51 mm [.020 in] SQ, CROWNED PINS).
 - SEE THE REGULATORY INFORMATION APPENDIX (RIA) IN THE "ROHS COMPLIANCE" SECTION OF WWW.3MCONNECTOR.COM FOR COMPLIANCE INFORMATION (RIA E1 & C1 APPLY).
 - FOR PRODUCT SPECIFICATIONS AND WARRANTY INFORMATION SEE 3M 78-5102-0078-1.
 - IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.

PREASSEMBLED HEIGHT WITH COVER

ASSEMBLED HEIGHT WITH COVER

ASSEMBLED HEIGHT WITH COVER AND STRAIN RELIEF

METRIC [ENGLISH]

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DIVISION	DIVISION CODE	DATE	DATE	DATE	DATE	DATE
DO NOT SCALE DRAWING	SCALE 1	TOLERANCES EXCEPT AS NOTED				
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 1994	MILLIMETERS	© 3M COPYRIGHT 2010 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	ALL SURFACES	ANGLES ±1°	TITLE 3M RIBBON CABLE SOCKET 2 MM x 2 MM PITCH 158 SERIES			
125	✓ MARKED ONLY		CAGE NUMBER	SIZE	DRAWING NO.	REV.
			D		78-5100-2358-9	E
			MODEL	DET	ISTS	YES NO SHT 1 OF 3

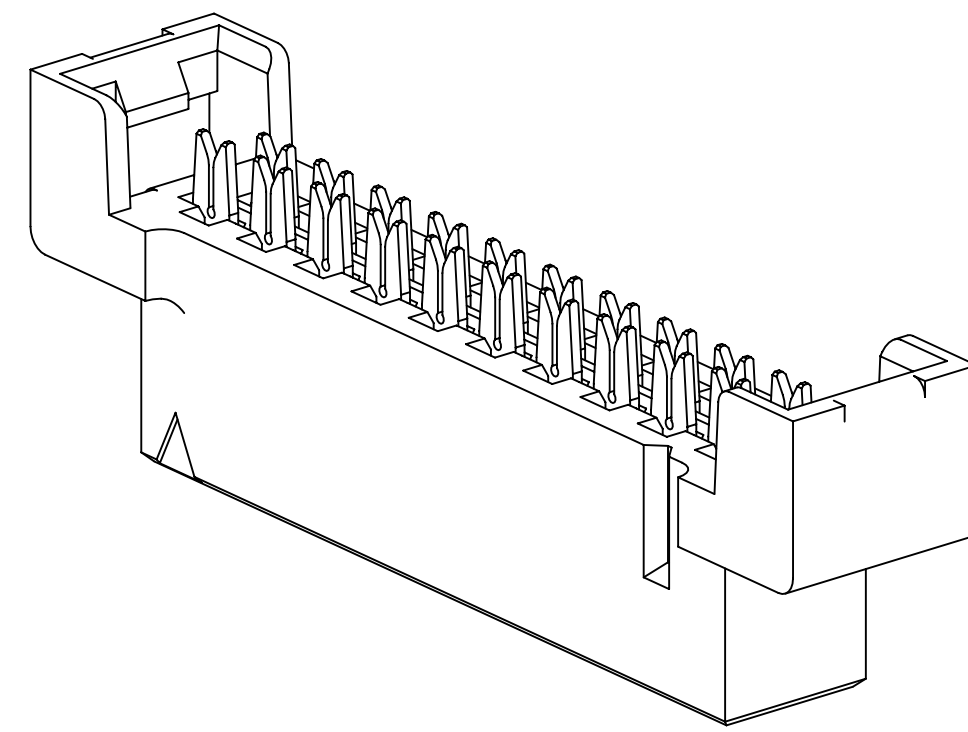
78-5100-2358-9 DRAWING NUMBER

REVISION

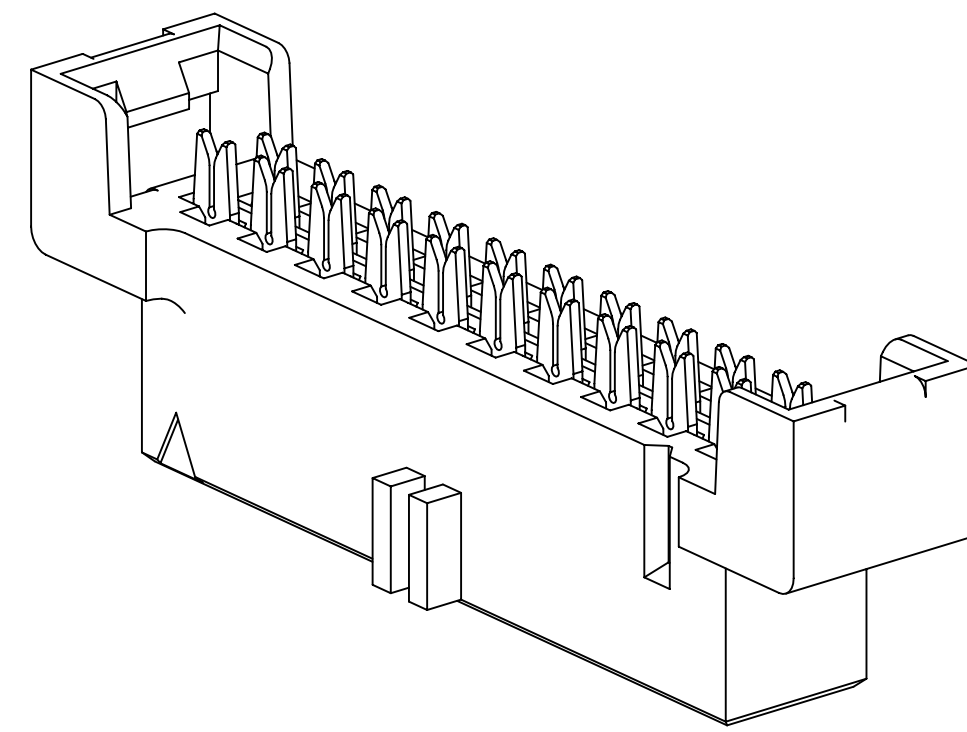
A

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

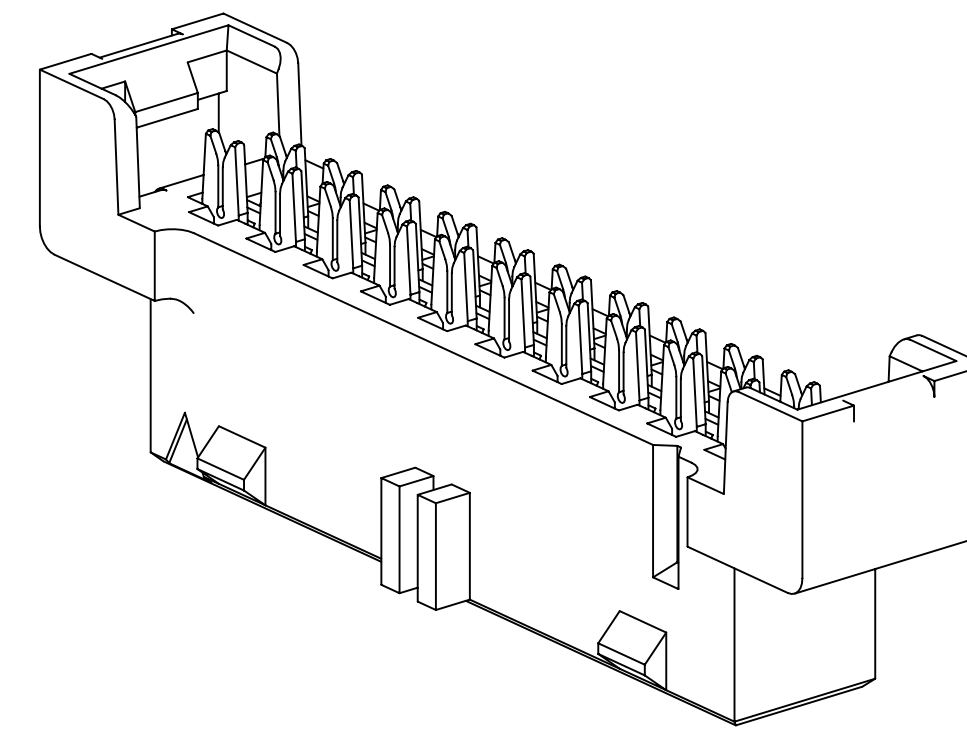
NUMBER OF POSITIONS	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G
6	6.39 [.252]	12.64 [.497]	8.98 [.354]	10.81 [.426]	11.32 [.446]	12.64 [.497]	N/A
8	8.39 [.330]	14.64 [.576]	10.98 [.432]	12.81 [.504]	13.32 [.524]	14.64 [.576]	N/A
10	10.39 [.409]	16.64 [.655]	12.98 [.511]	14.81 [.583]	15.32 [.603]	16.64 [.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]



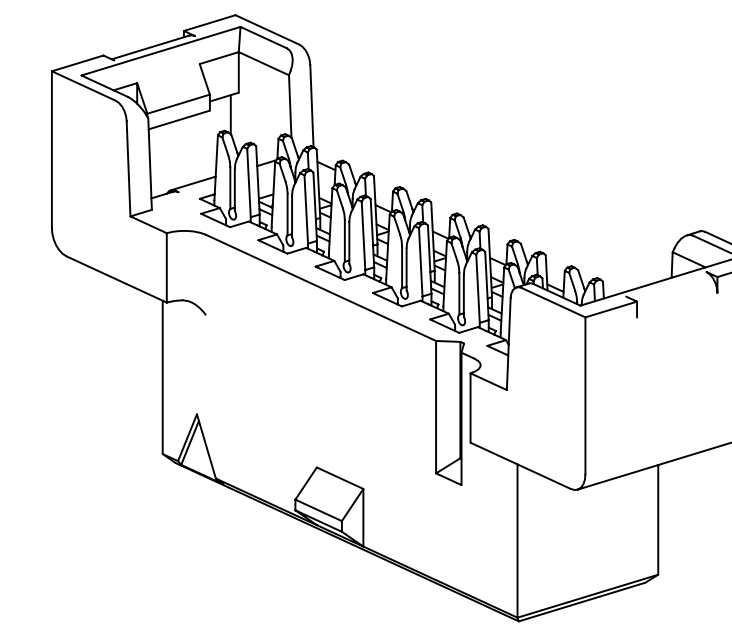
SOCKET WITHOUT OPTIONS
ALL POSITIONS



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)

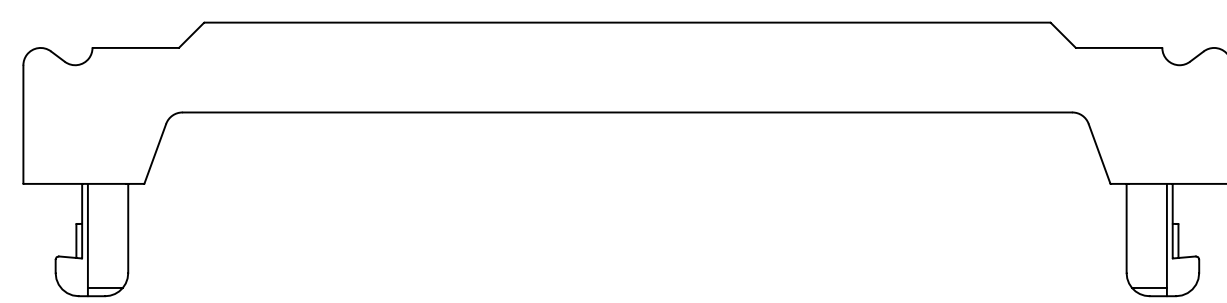
PLATING
BLANK = 0.76 μm [30 μin] GOLD
PACKAGING
0 = TRAY

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)

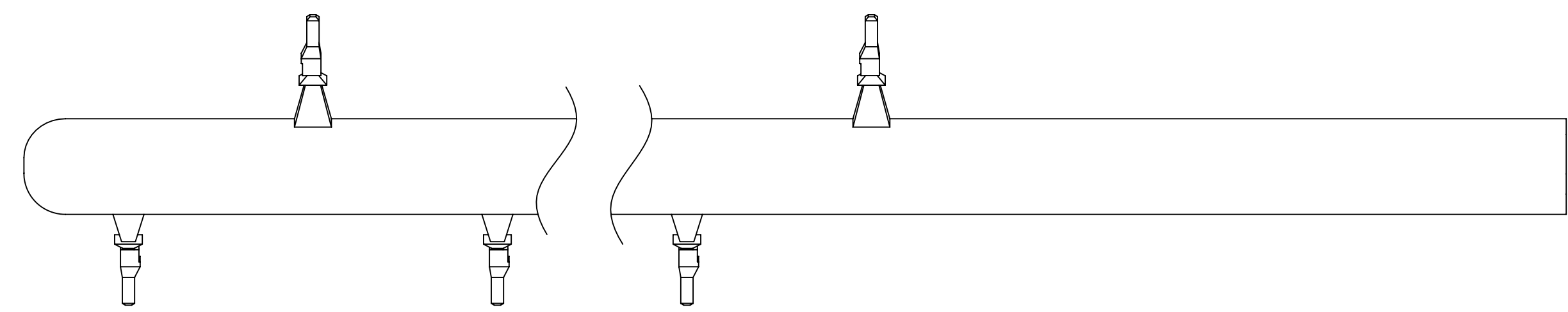
METRIC [ENGLISH]

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DO NOT SCALE DRAWING THIRD ANGLE PROJECTION INTERPRET PER ASME Y14.5 - 1994 MAX SURFACE ROUGHNESS 125 μm ALL SURFACES 10 μm MARKED ONLY		SCALE 6 1 TOLERANCES EXCEPT AS NOTED INCHES .00 ± .000 ± .0000 ± MILLIMETERS 0 ± .00 ± .000 ± .0000 ± ANGLES ±1°		3M Center St. Paul, MN 55144 © 3M COPYRIGHT 2010 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 D78-5100-2358-9 MODEL DET 1515 YES NO SHT 2 OF 3		
DIVISION SCALE TOLERANCES EXCEPT AS NOTED INCHES .00 ± .000 ± .0000 ± MILLIMETERS 0 ± .00 ± .000 ± .0000 ± ANGLES ±1°		DIVISION CODE DATE JUL 23, 2010 DATE JUL 30, 2010 DATE JUL 30, 2010 DATE JUL 30, 2010				

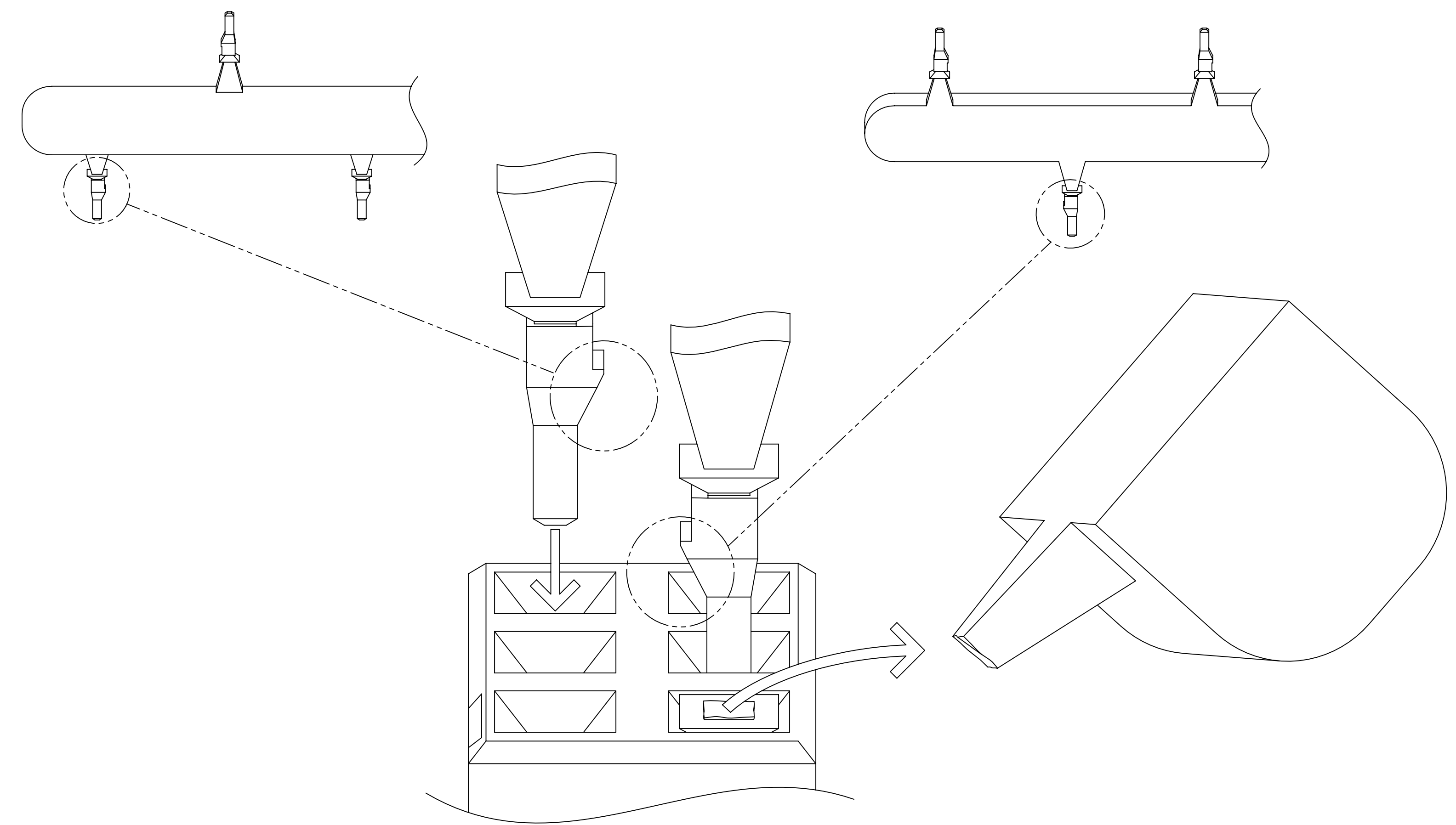
78-5100-2358-9
DRAWING NUMBER

A

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

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DISTRICT CODES		DRP	DATE	MFG	DATE	
		L. SCHMIDT	JUL 23, 2010			
DIVISION	DIVISION CODE	CHKD	DATE	APPRV	DATE	
				S. FELDMAN	JUL 30, 2010	
DO NOT SCALE DRAWING	SCALE 1/1	TOLERANCES EXCEPT AS NOTED		© 3M COPYRIGHT 2010 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.		
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 1994	INCHES .00 ± .000 ± .0000 ±		MILLIMETERS 0 ± .00 ± .00 ± .13 .000 ±		
MAX SURFACE ROUGHNESS	<input type="checkbox"/> ALL SURFACES <input checked="" type="checkbox"/> MARKED ONLY	CAGE NUMBER	SIZE	DRAWING NO.	REV.	
125		D		78-5100-2358-9	E	
		MODEL				DET. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SHT 3 OF 3

METRIC [ENGLISH]

78-5100-2358-9
DRAWING NUMBER