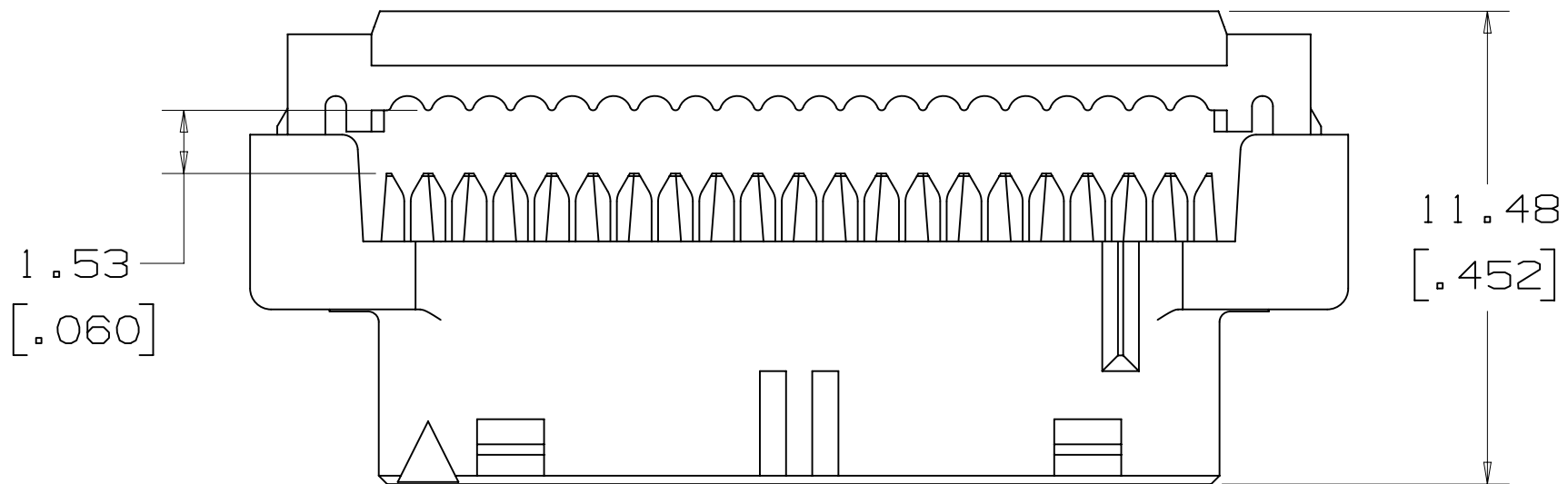
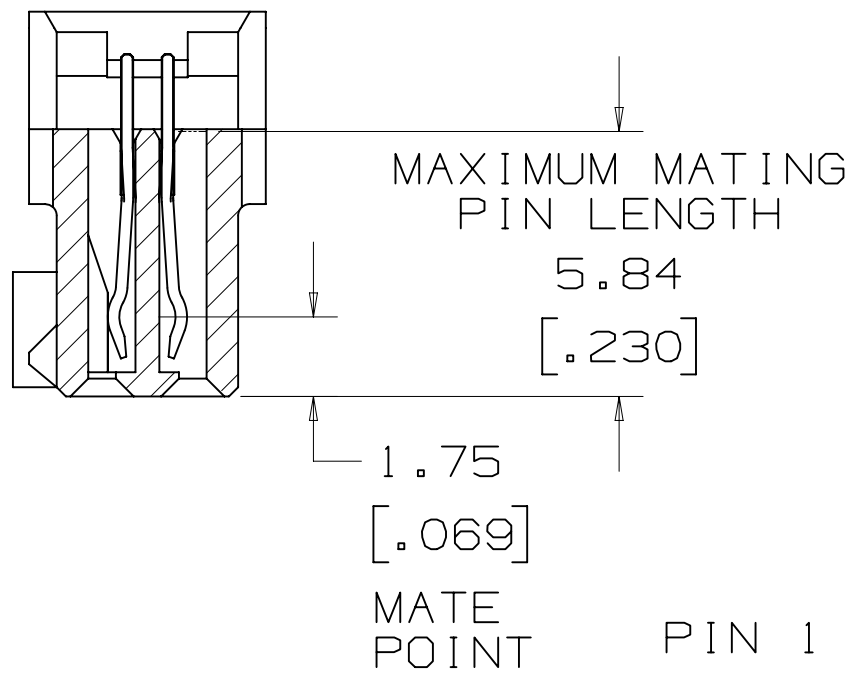
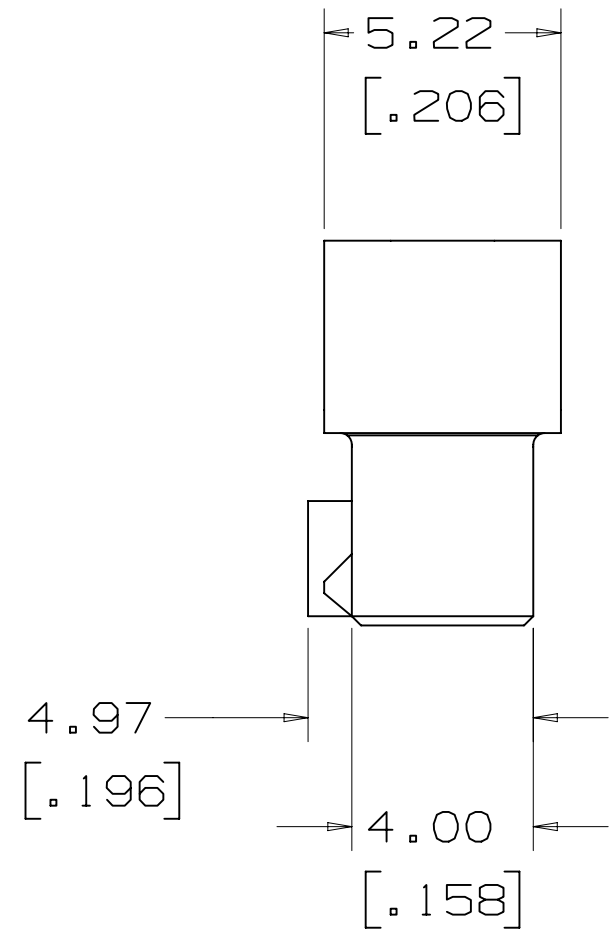
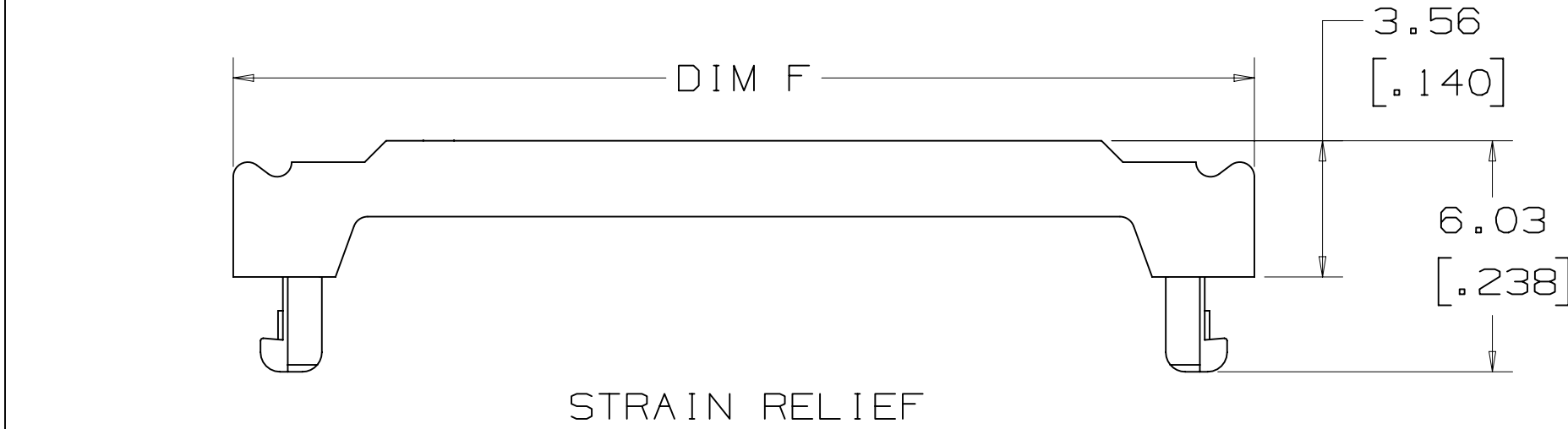
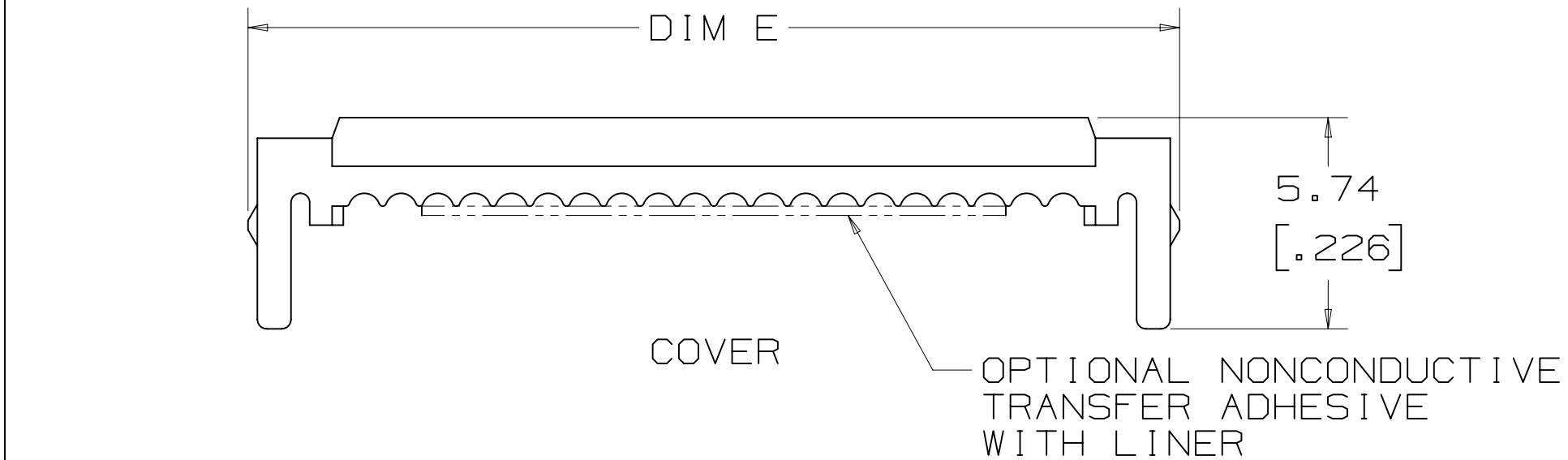
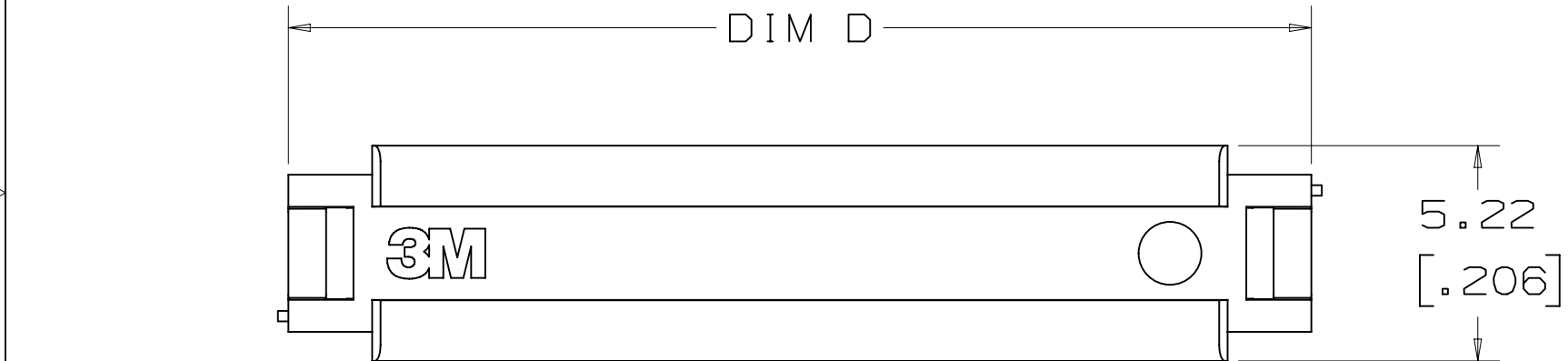
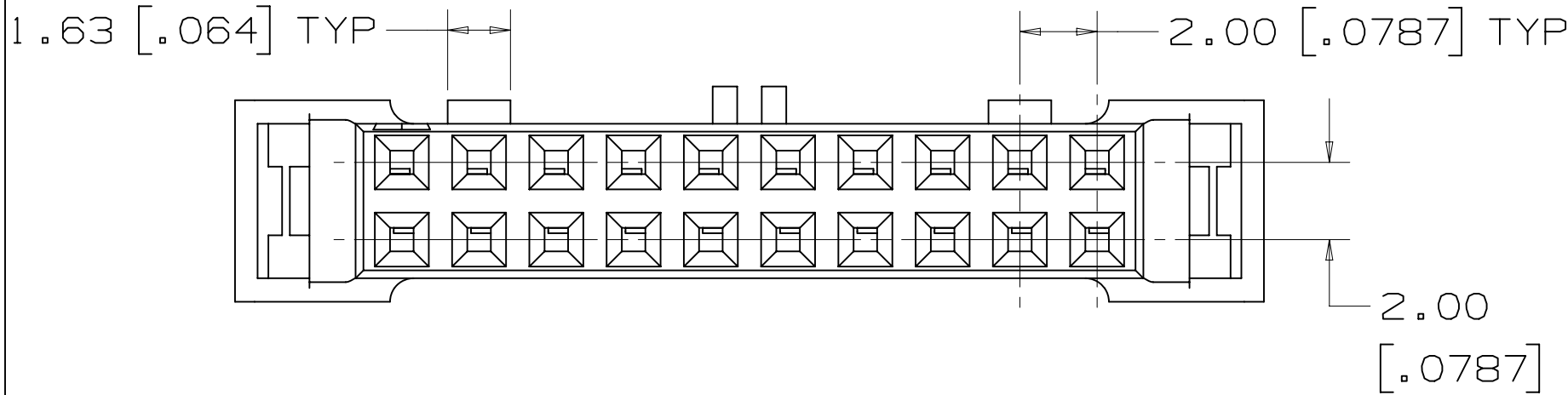
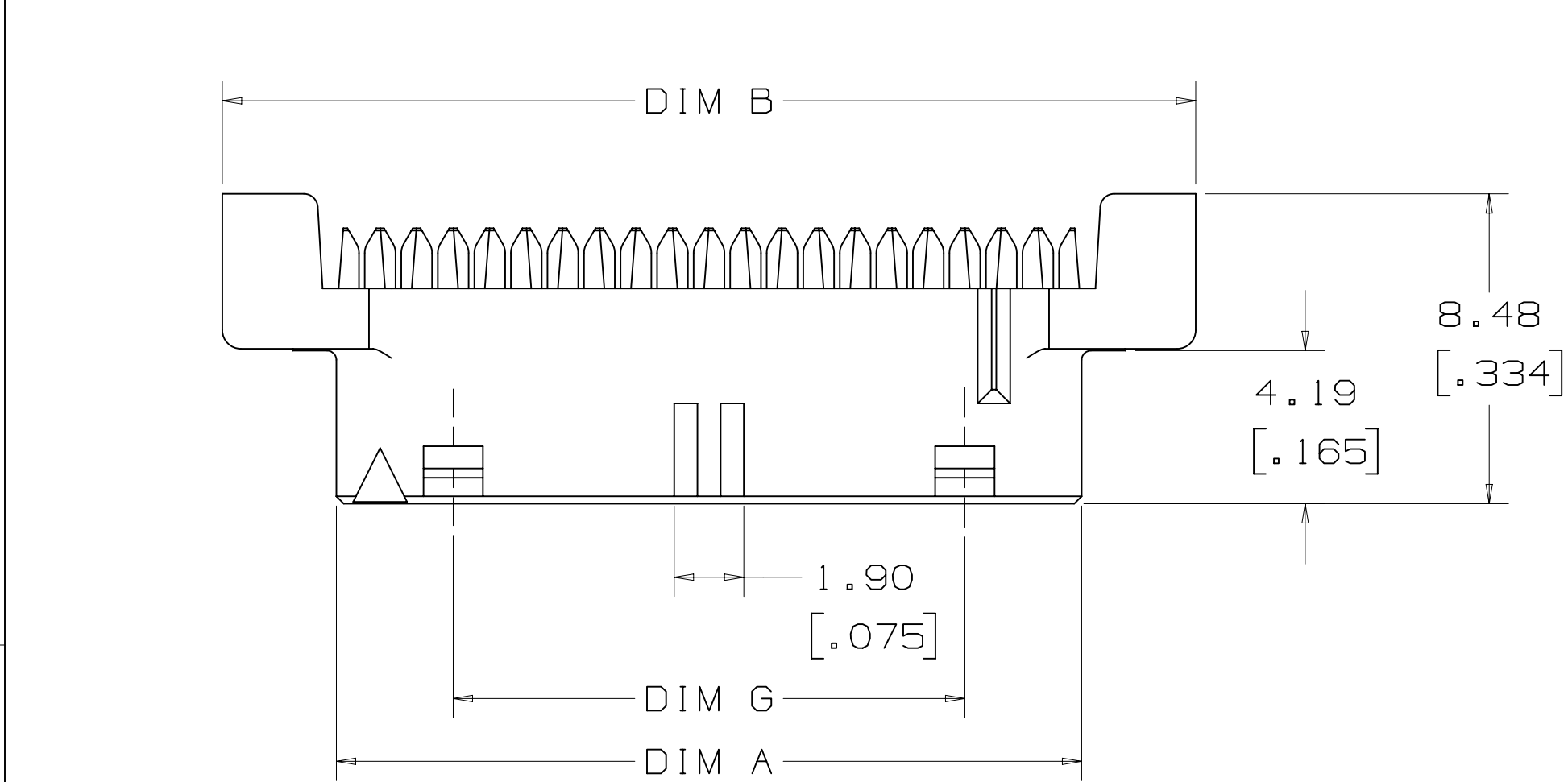
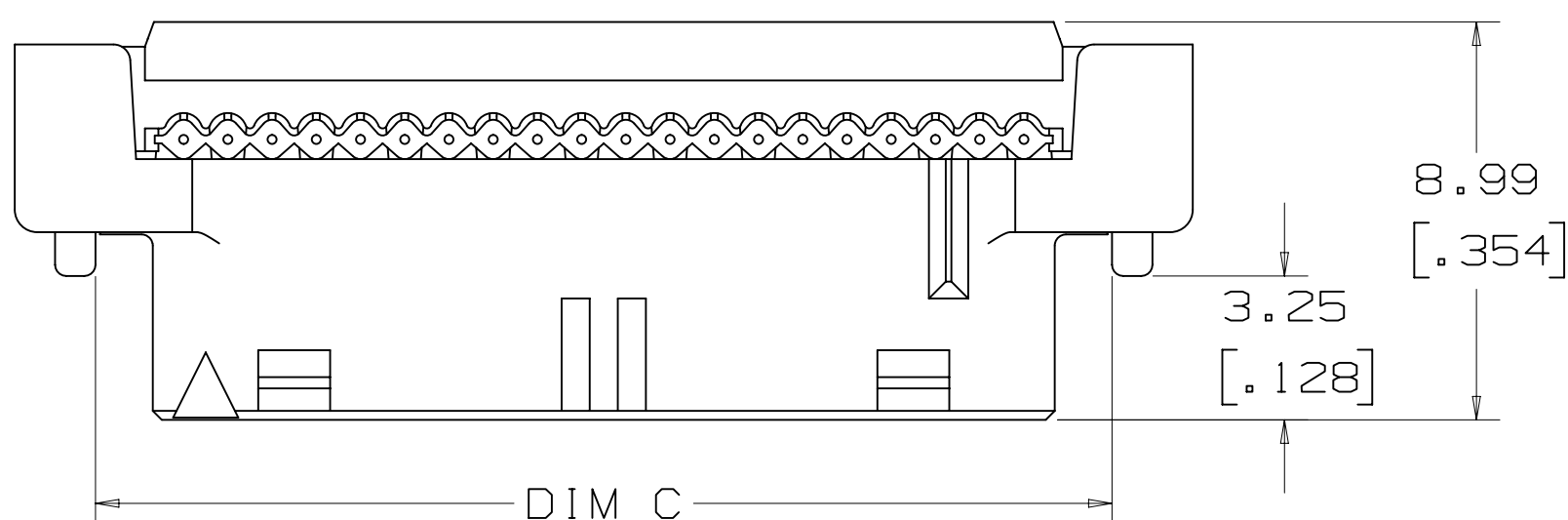


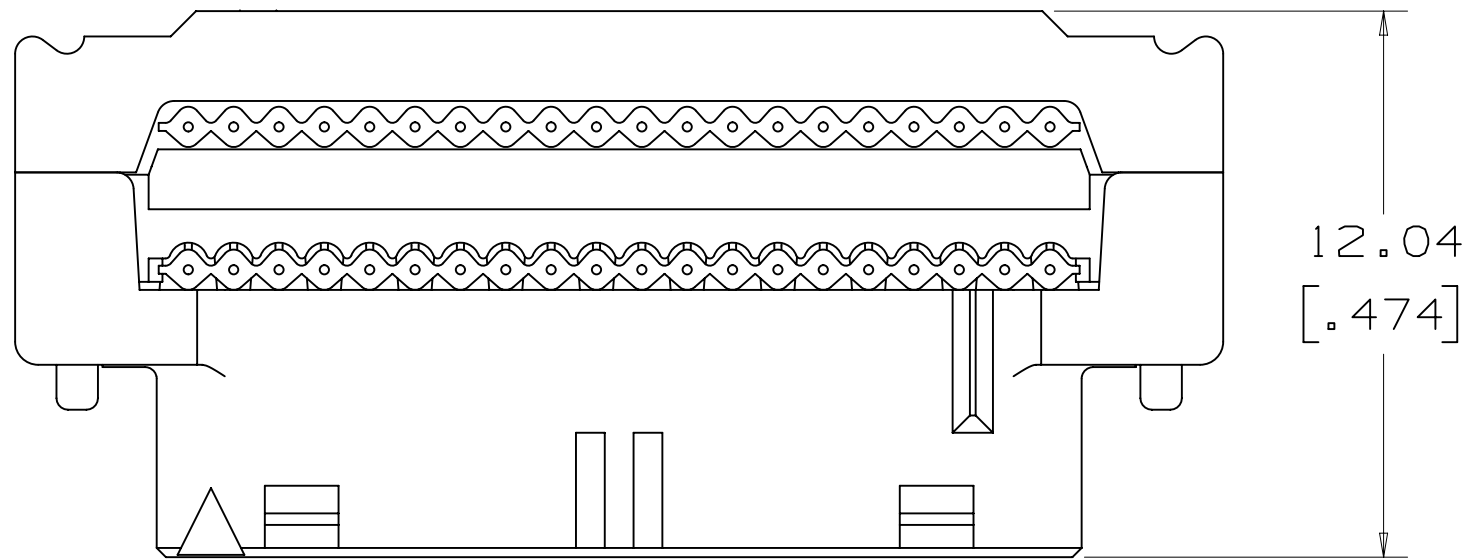
3M™ Ribbon Cable Socket 2 mm X 2 mm Pitch 158 Series



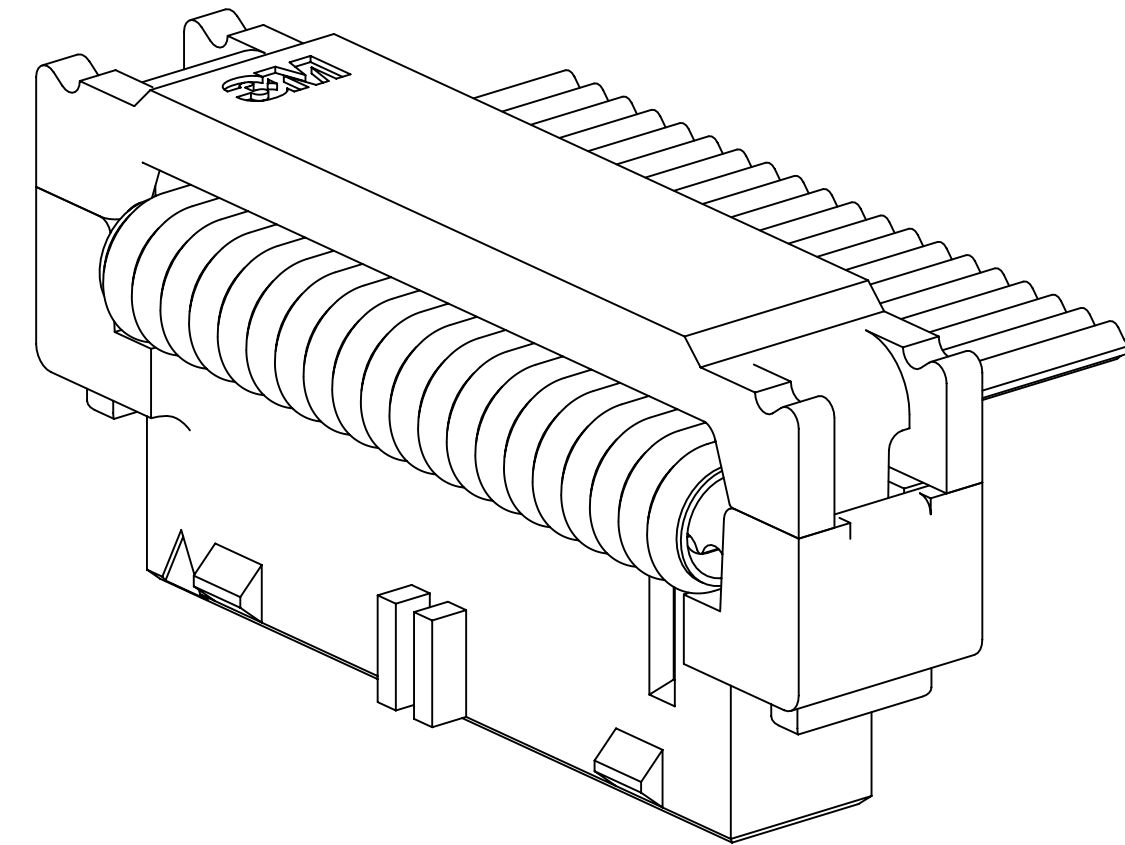
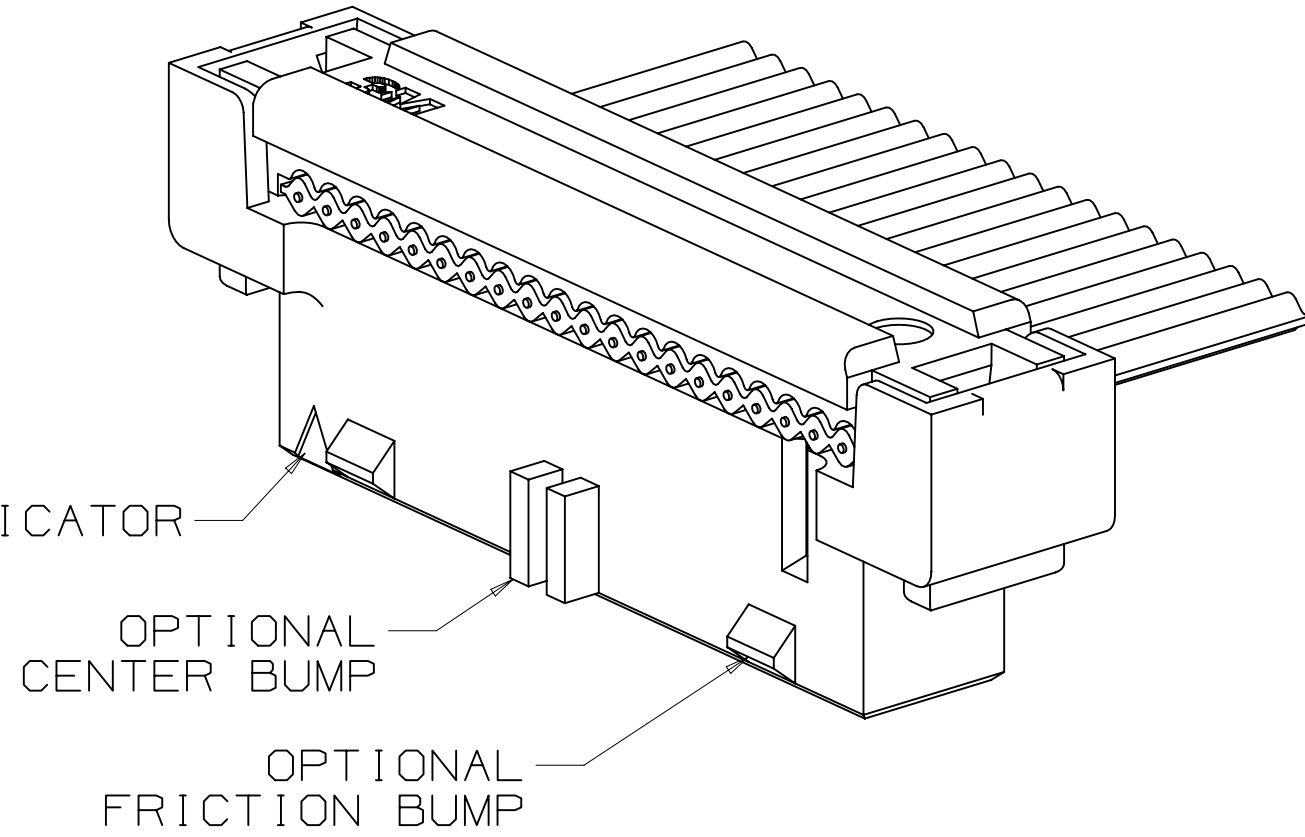
PREASSEMBLED HEIGHT WITH COVER



ASSEMBLED HEIGHT WITH COVER



ASSEMBLED HEIGHT WITH COVER AND STRAIN RELIEF



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

METRIC [ENGLISH]
cALUS
UL FILE NO: E68080

DESIGN REFERENCE	NEXT ASSEMBLY
DO NOT SCALE DRAWING	SCALE 6-1
THIRD ANGLE PROJECTION	TOLERANCES EXCEPT AS NOTED
INTERPRET PER ASME Y14.5 - 1994	INCHES 0.00 ± .002 ± 0.000 ±
MAX SURFACE ROUGHNESS 125 / ALL SURFACES ✓ MARKED ONLY	MILLIMETERS 0 ± .00 ± .000 ±
	ANGLES ±1°

F	51692	DEC 16, 2013 ADD UL SYMBOLS		SJS	SAN	
E	41488	JUN 21, 2012 REVISED CURRENT RATING IN PERFORMANCE TABLE		LDS	SAN	
D	37252	NOV 04, 2011 REVISED ORDERING INFORMATION REV C HISTORY REMOVED		LDS	SF	
A	30741	OCT 28, 2010 INITIAL RELEASE		LDS	SF	
REV	ECO	ISSUE DATE AND DESCRIPTION			DRFT	CHKD
DRFT	L. SCHMIDT		DATE	JUL 23, 2010	MFG	DATE
CHKD			DATE		APPRV	DATE
					S. FELDMAN	JUL 30, 2010
		© 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	SIZE	DRAWING NO.			REV.	
	D	78-5100-2358-9			F	
MODEL	DET.		LISTS		YES	NO
					SHT	1 OF 3

- NOTES
- MATERIAL:
BODY: HIGH TEMP GLASS FILLED POLYESTER, GRAY UL94V-0
CONTACTS: COPPER ALLOY
 - PLATING:
2.03-3.81 μ m [80-150 μ in]
NICKEL UNDERPLATE
0.38 μ m [15 μ in] OR
0.76 μ m [30 μ in] 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.

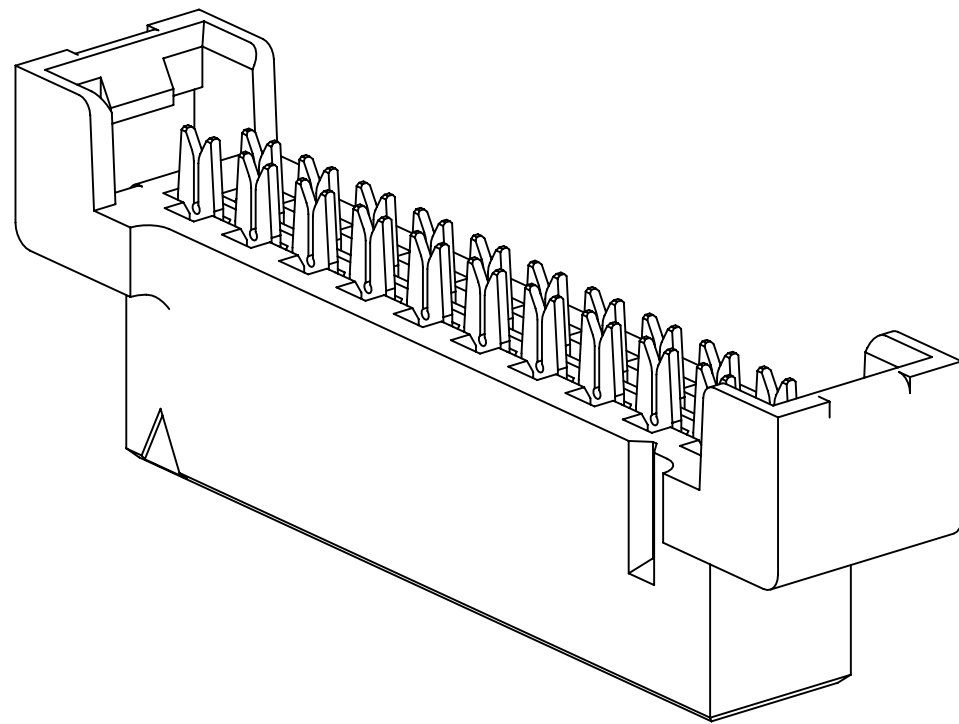
F
78-5100-2358-9
DRAWING NUMBER

B

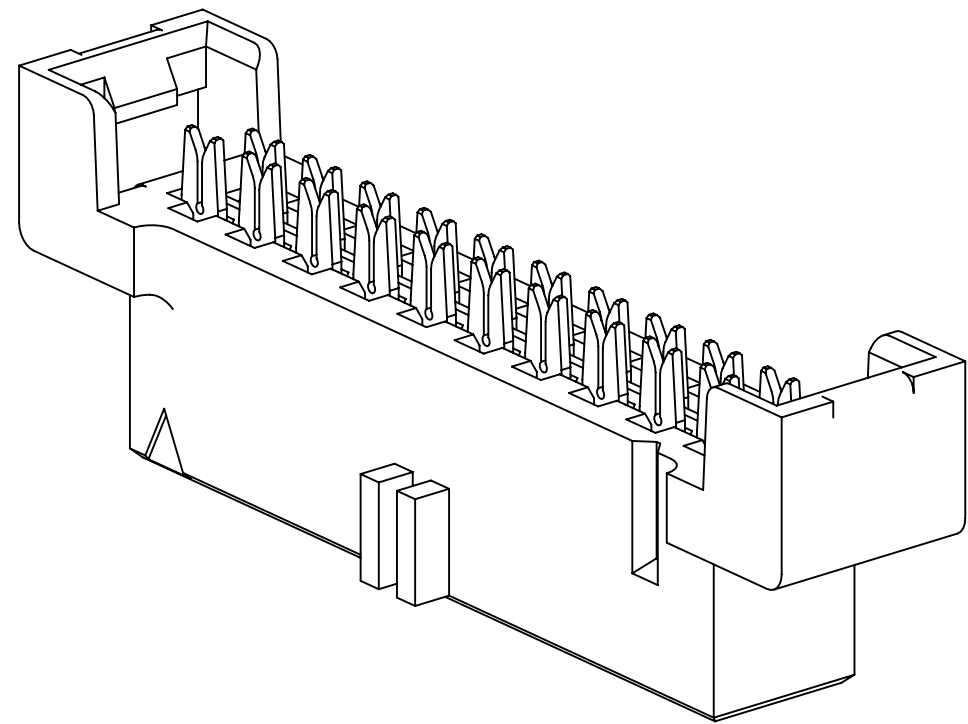
A

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

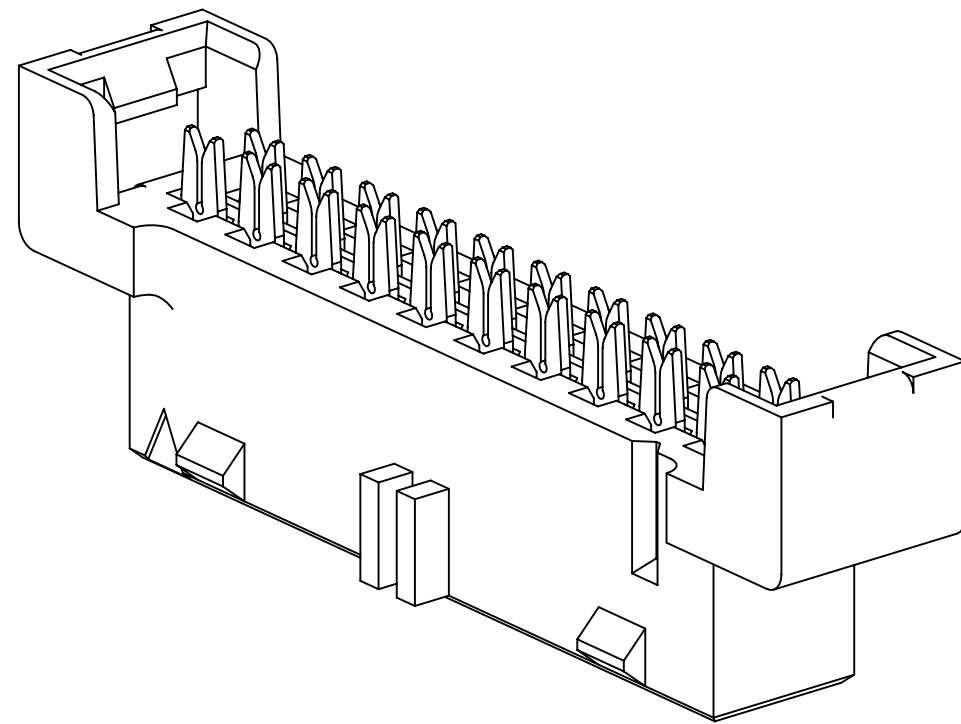
NUMBER OF POSITIONS	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G
6	6.39 [.252]	12.64 [.497]	8.98 [.354]	10.81 [.426]	11.32 [.446]	12.64 [.497]	N/A
8	8.39 [.330]	14.64 [.576]	10.98 [.432]	12.81 [.504]	13.32 [.524]	14.64 [.576]	N/A
10	10.39 [.409]	16.64 [.655]	12.98 [.511]	14.81 [.583]	15.32 [.603]	16.64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



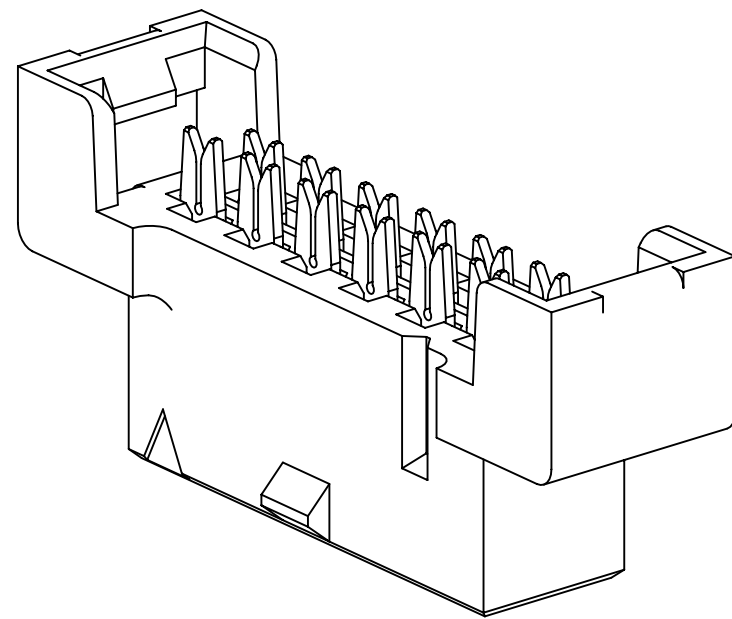
SOCKET WITHOUT OPTIONS
ALL POSITIONS



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)

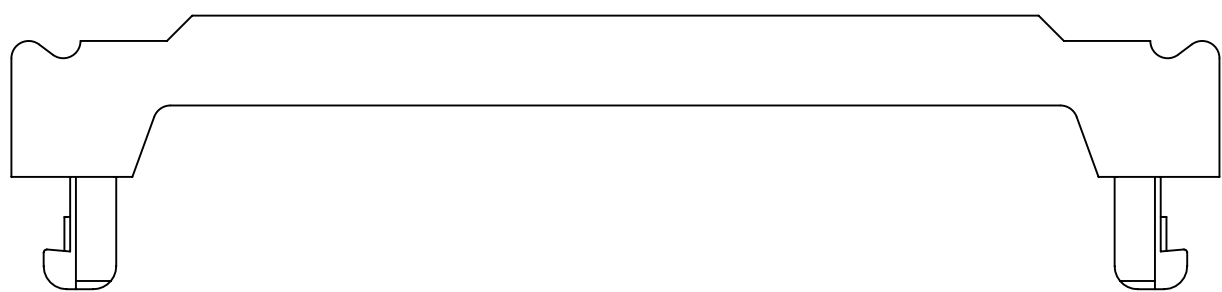
PLATING
BLANK = 0.76 μ m
[30 μ in] GOLD
PACKAGING
0 = TRAY

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 μ m
[30 μ in] GOLD
15 = 0.38 μ m
[15 μ in] 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 μ m
[15 μ in] GOLD
PACKAGING
1 = BULK PACK

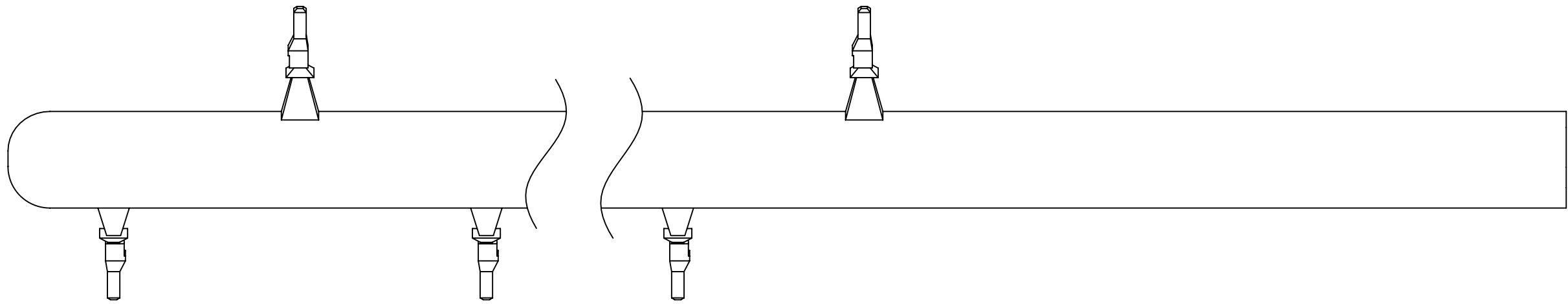


STRAIN RELIEF
3448-158XX
POSITION COUNT
(SEE TABLE)

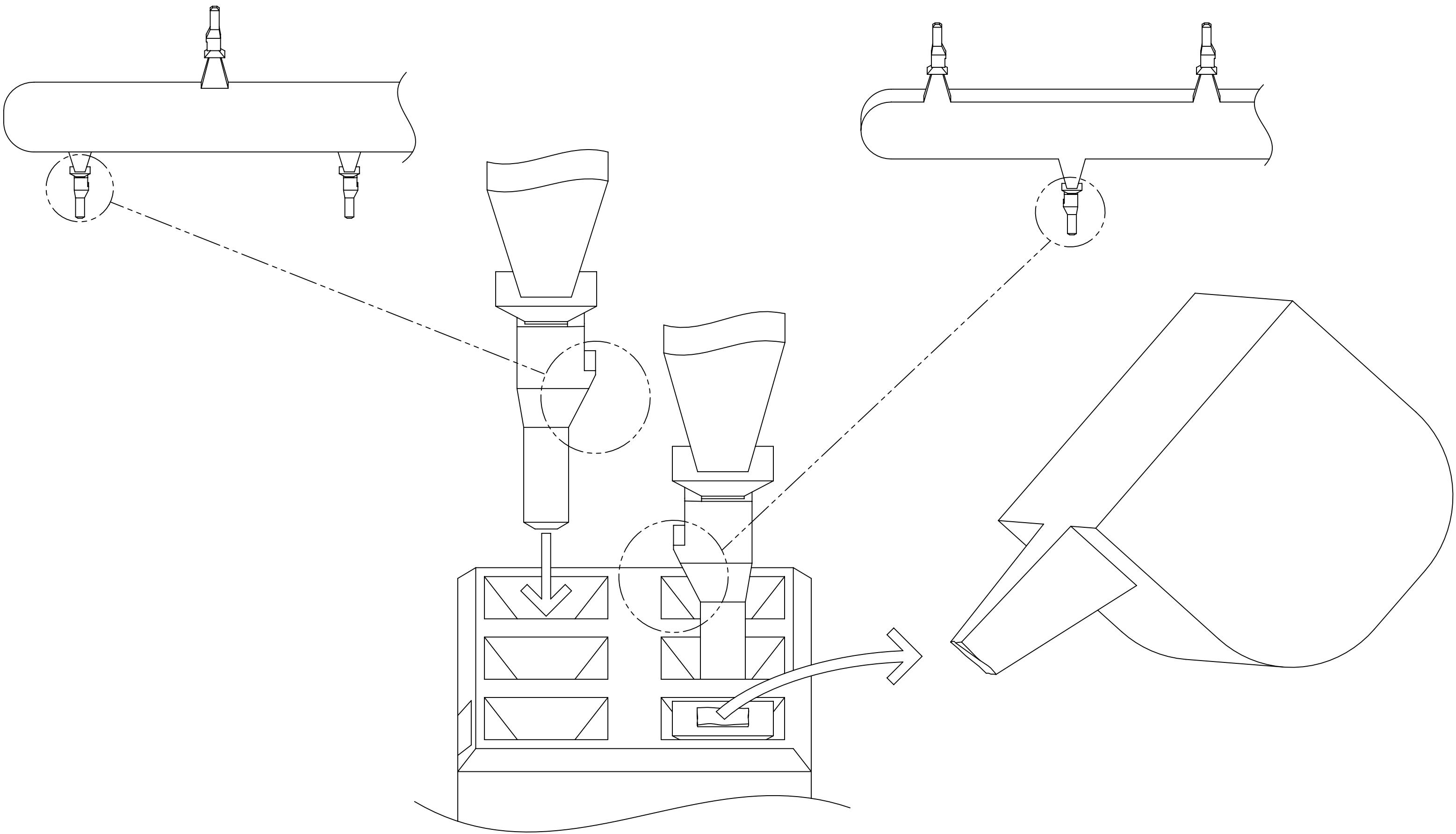
METRIC [ENGLISH]

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
3448-158XX		L. SCHMIDT		JUL 23, 2010		
DIVISION	DIVISION CODE	CHKD		DATE	DATE	DATE
DO NOT SCALE DRAWING	SCALE 6-1	TOLERANCES EXCEPT AS NOTED	INCHES			
			MILLIMETERS			
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 1994		MAX SURFACE ROUGHNESS			
			125 / ALL SURFACES			
			MARKED ONLY			
			ANGLES $\pm$ 1°			
		TITLE		3M RIBBON CABLE SOCKET 2 MM x 2 MM PITCH 158 SERIES		
		CAGE NUMBER	SIZE	DRAWING NO.	REV.	
		D		78-5100-2358-9	F	
		MODEL	DET	LISTS	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
XREF CODES		DIV CODE		DRF	L. SCHMIDT	DATE	JUL 23,2010	MFG	DATE
DIVISION		DIVISION CODE		CHKD		DATE		APPR	DATE
								S. FELDMAN	JUL 30,2010
DO NOT SCALE DRAWING		SCALE 1 1		TOLERANCES EXCEPT AS NOTED		3M Center St. Paul, MN 55144			
THIRD ANGLE PROJECTION		INCHES		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.			
INTERPRET PER ASME Y14.5 - 1994		0 ±		0 ±		TITLE 3M RIBBON CABLE SOCKET 2 MM x 2 MM PITCH 158 SERIES			
MAX SURFACE ROUGHNESS 125		0 ±		0 ±		CAGE NUMBER D78-5100-2358-9		DRAWING NO. F	
ALL SURFACES MARKED ONLY		0 ±		0 ±		MODEL		DET LISTS	
		ANGLES ±1°						YES NO SHT 3 OF 3	