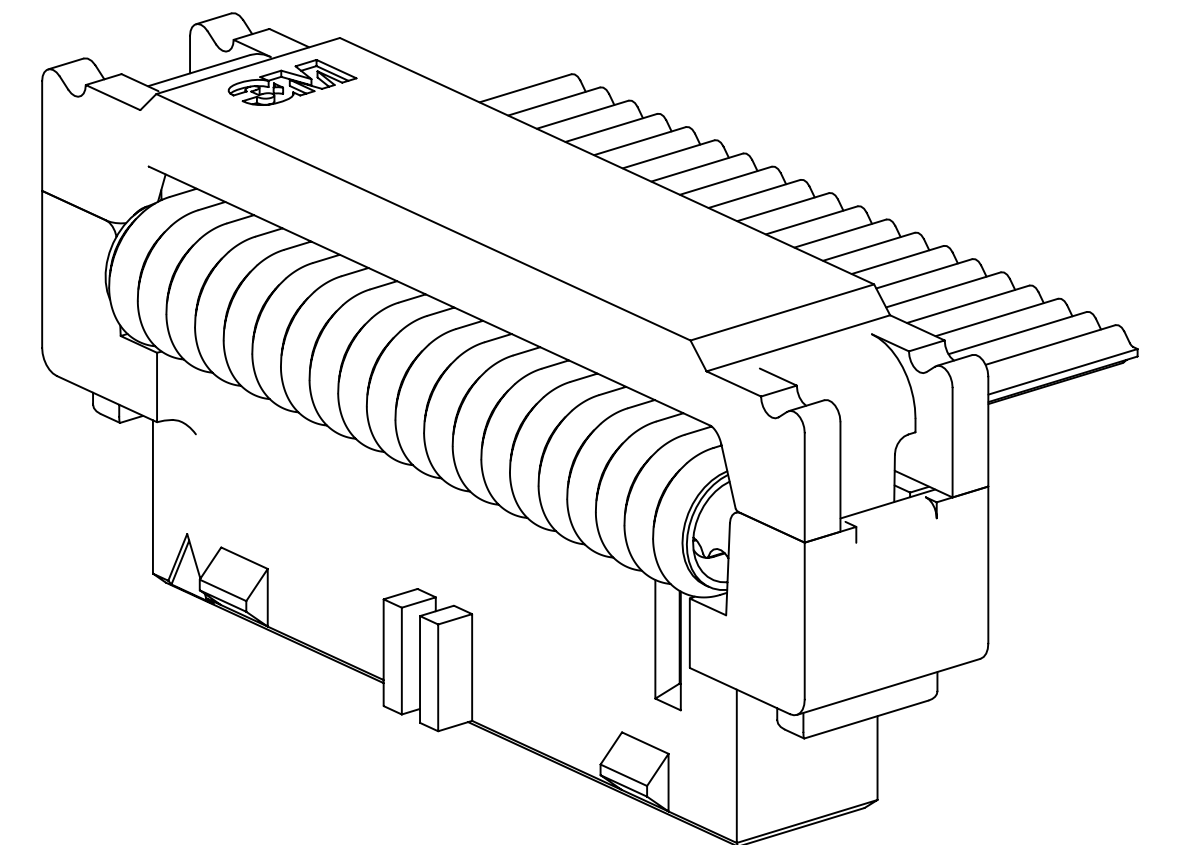
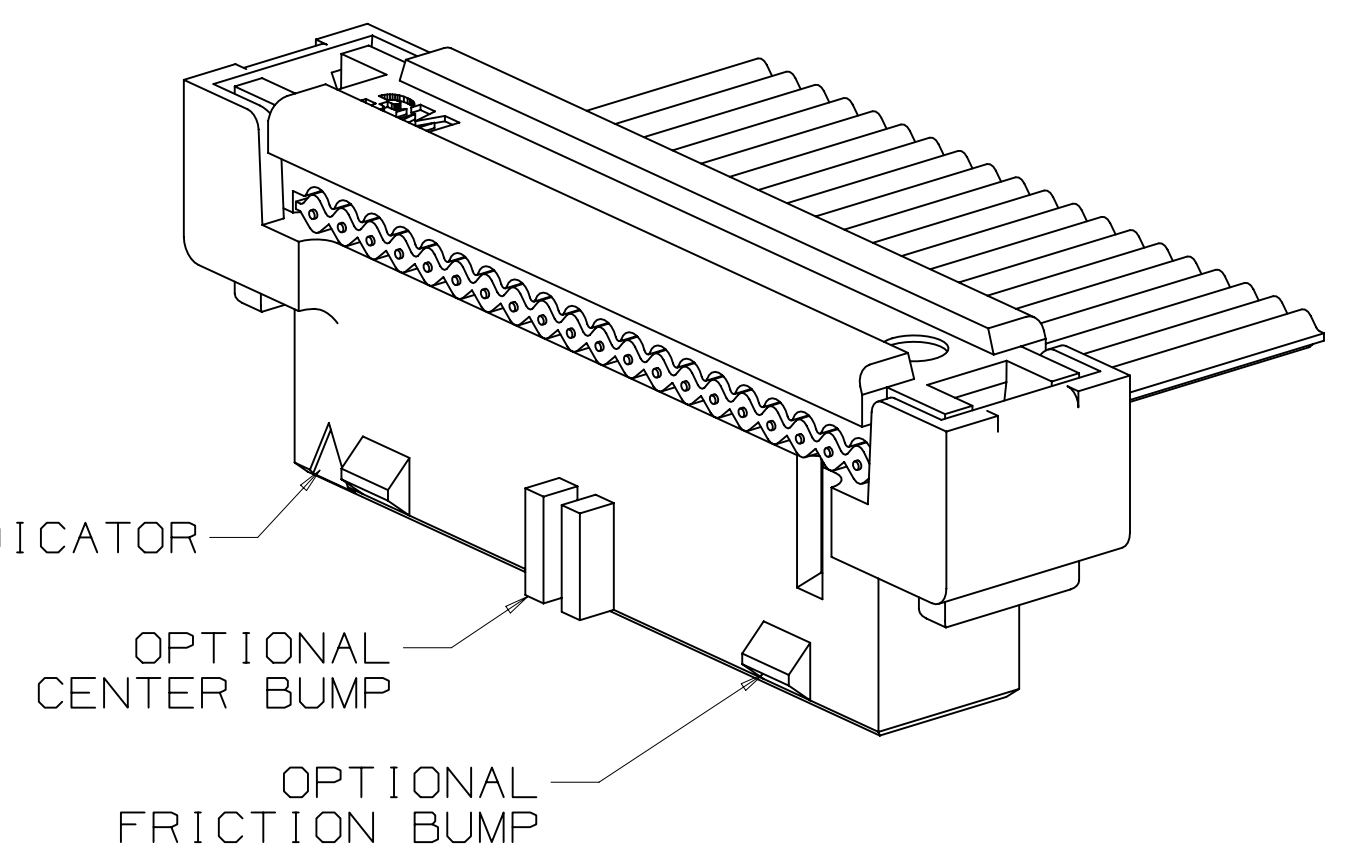
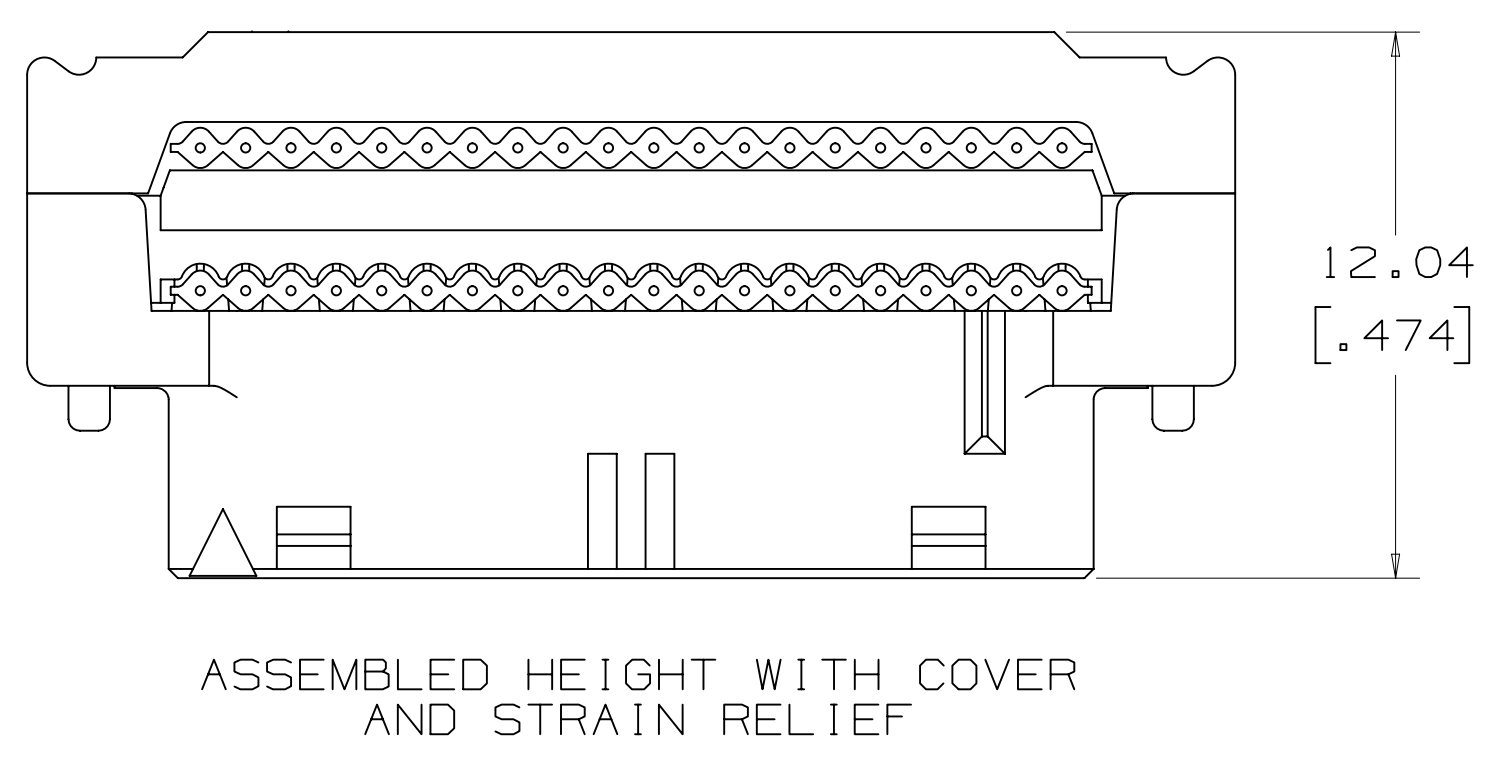
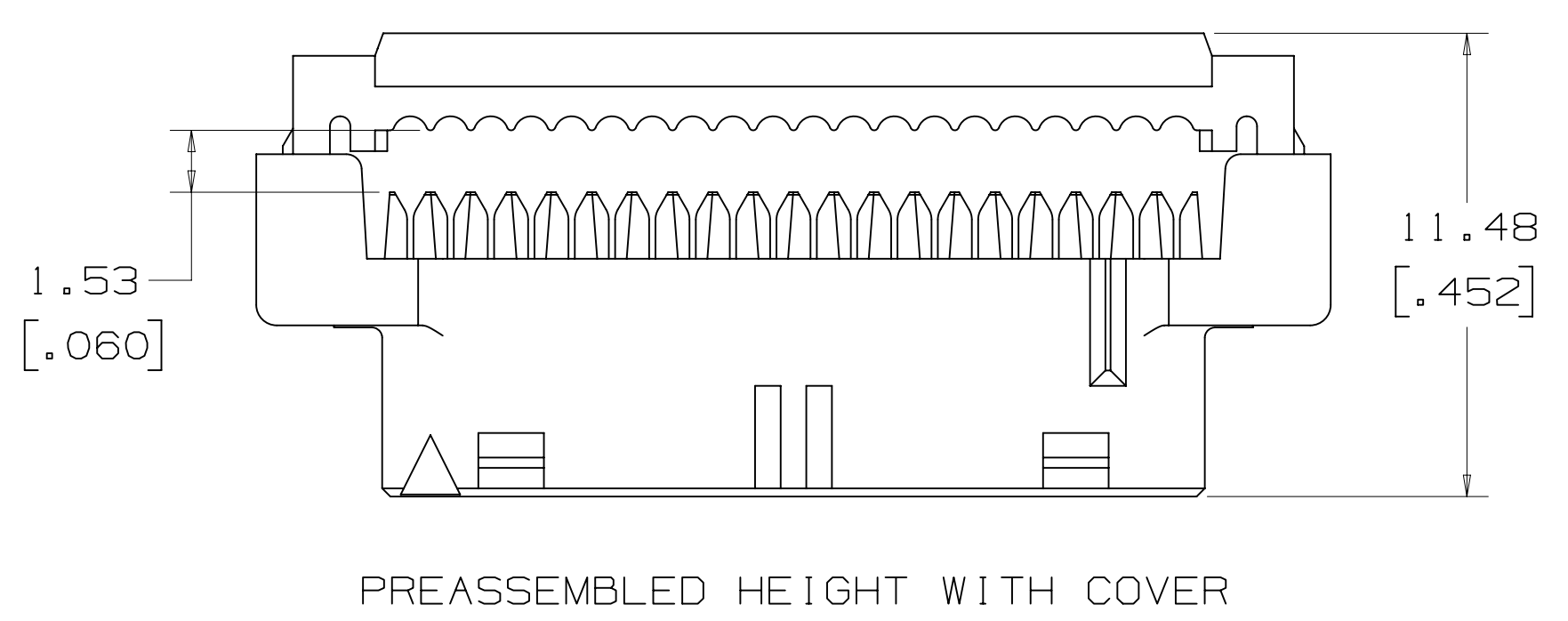
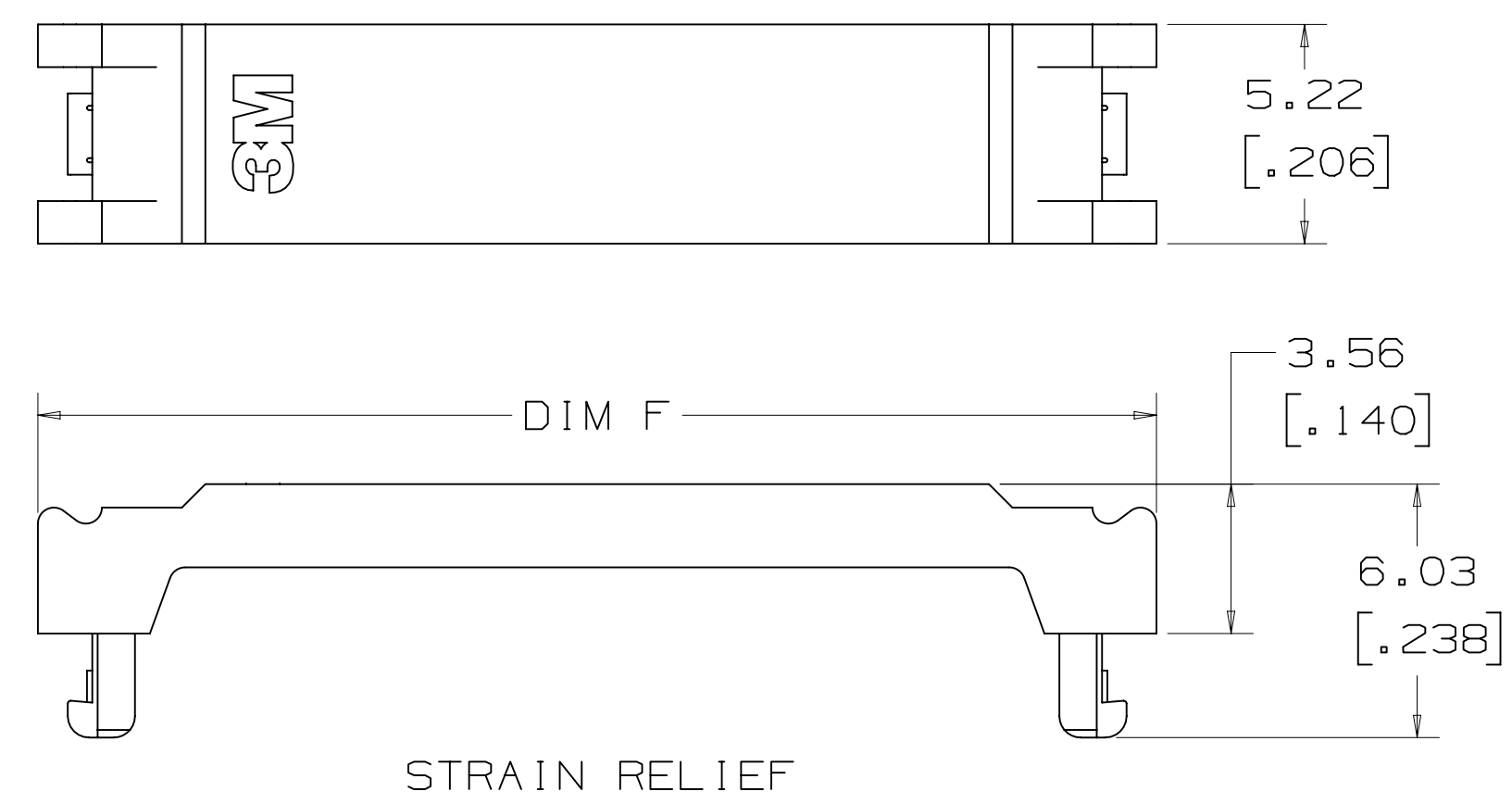
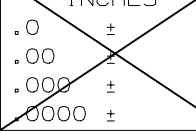
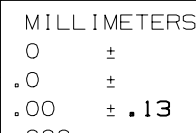


Technical drawing of a mechanical part showing dimensions in inches and millimeters. The drawing includes the following dimensions:

- DIM B**: Overall width dimension.
- 8.48** [0.334]: Dimension from the top surface to the top of the internal features.
- 4.19** [0.165]: Dimension from the top surface to the top of the internal features.
- 1.90** [0.075]: Dimension between the two internal features.
- DIM G**: Dimension between the two internal features.
- DIM A**: Overall width dimension.



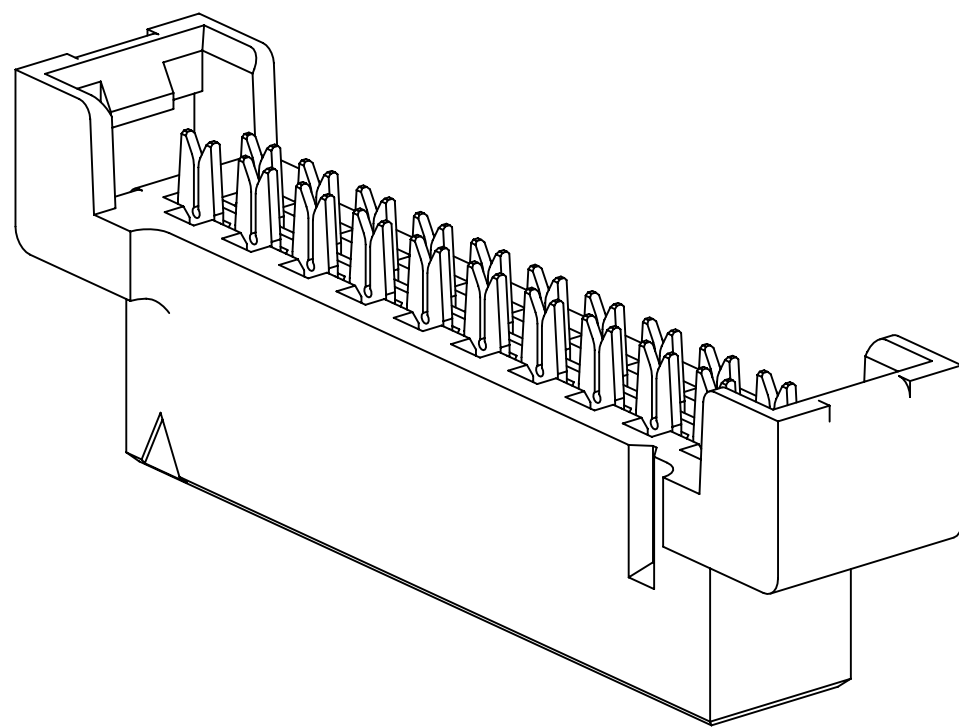
DESIGN REFERENCE		NEXT ASSEMBLY		REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT		CHKD	
ACCES CODES				DRFT L. SCHMIDT		DATE JUL 23, 2010		MRG		DATE			
				CHKD		DATE		APPRV. S. FELDMAN		DATE JUL 30, 2010			
DIVISION				DIVISION CODE				© 3M COPYRIGHT 2010					
DO NOT SCALE DRAWING		SCALE 1 =		TOLERANCES EXCEPT AS NOTED		 3M Center St. Paul, MN 55144		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 ± .00 ± .000 ± .000 ±		TITLE		3M RIBBON CABLE SOCKET 2 MM x 2 MM PITCH 158 SERIES					
MAX SURFACE ROUGHNESS 125 ✓ □ ALL SURFACES ✓ MARKED ONLY		 MILLIMETERS 0 ± .00 ± .00 ± .13 .000 ±		CAGE NUMBER		SIZE		DRAWING NO.		REV.			
		ANGLES ± 1°		MODEL		D		578-5100-2358-9		F			
						DET Lists		YES ☐ NO ☒		SHT 1 OF 3			

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.

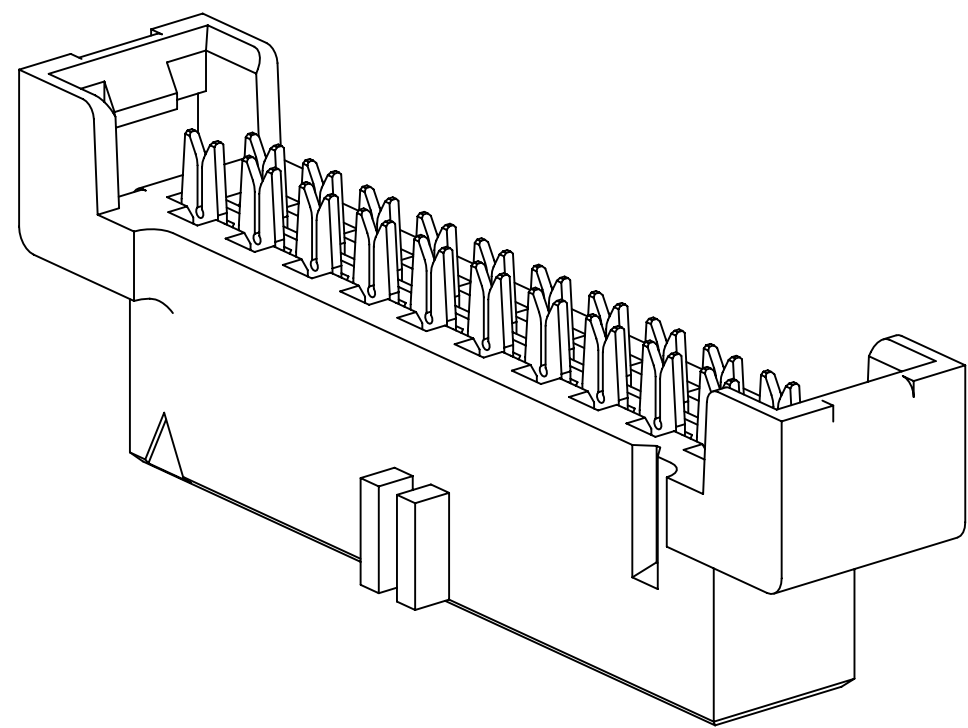
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E	41488	JUN 21, 2012	LDS	SAN
D	37252	NOV 04, 2011	LDS	SF
A	30741	OCT 28, 2010	LDS	SF
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DRFT	L	SCHMIDT	DATE	JUL 23, 2010
CHKD		DATE	APPRV	S. FELDMAN
			DATE	JUL 30, 2010
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TITLE				
3M RIBBON CABLE SOCKET 2 MM × 2 MM PITCH 158 SERIES				
CAGE NUMBER	SIZE	DRAWING NO.	REV.	
D	78-5100-2358-9	F	F	
MODEL	DET.		SHT 1 OF 3	
	LISTS		YES ☒ NO ☐	

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

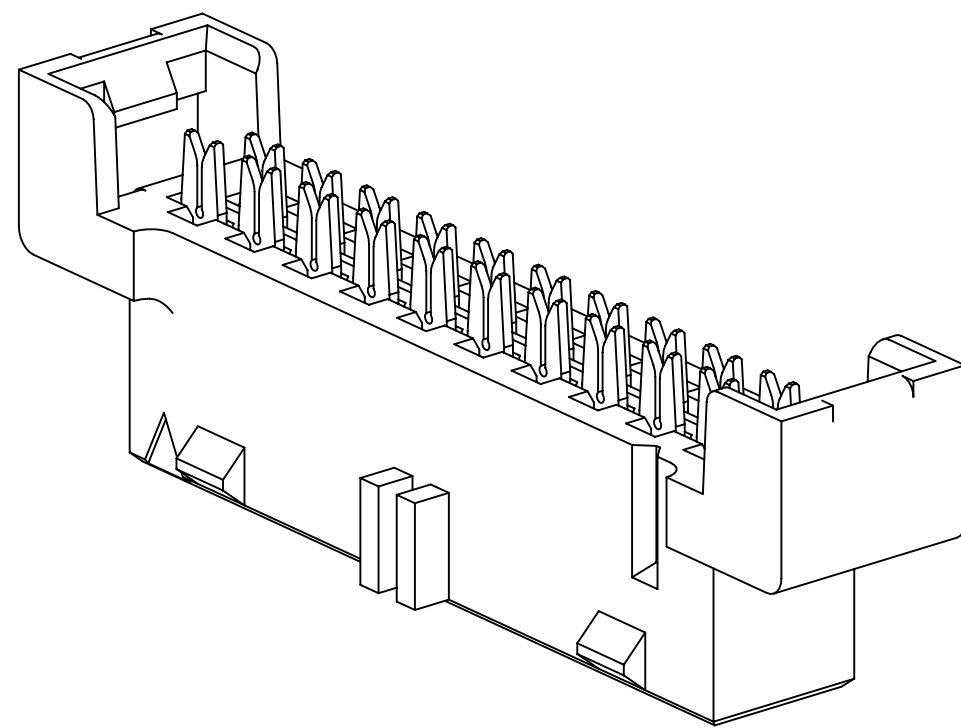
NUMBER OF POSITIONS	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G
6	6.39 [.252]	12.64 [.497]	8.98 [.354]	10.81 [.426]	11.32 [.446]	12.64 [.497]	N/A
8	8.39 [.330]	14.64 [.576]	10.98 [.432]	12.81 [.504]	13.32 [.524]	14.64 [.576]	N/A
10	10.39 [.409]	16.64 [.655]	12.98 [.511]	14.81 [.583]	15.32 [.603]	16.64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



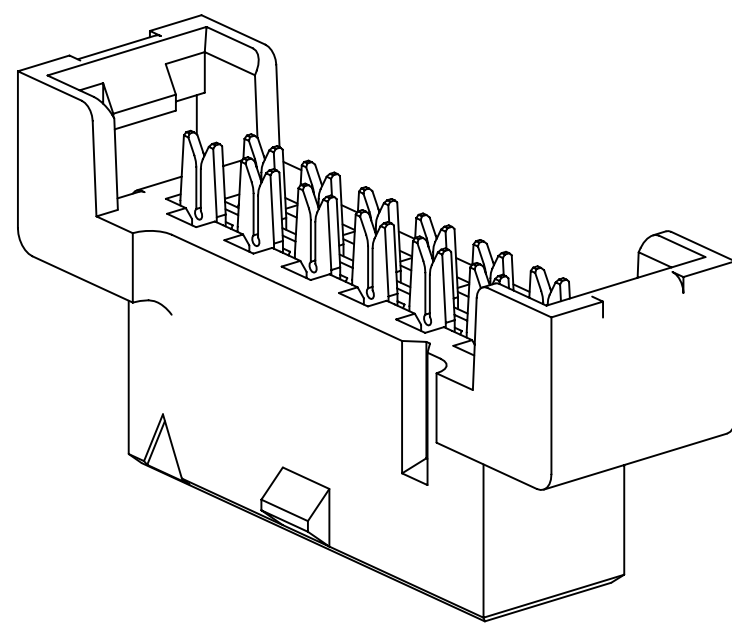
SOCKET WITHOUT OPTIONS
ALL POSITIONS



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)

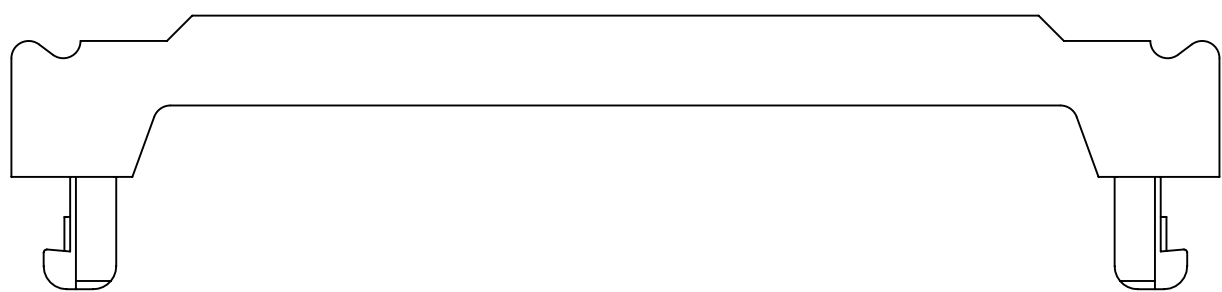
PLATING
BLANK = 0.76 μ m
[30 μ in] GOLD
PACKAGING
0 = TRAY

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

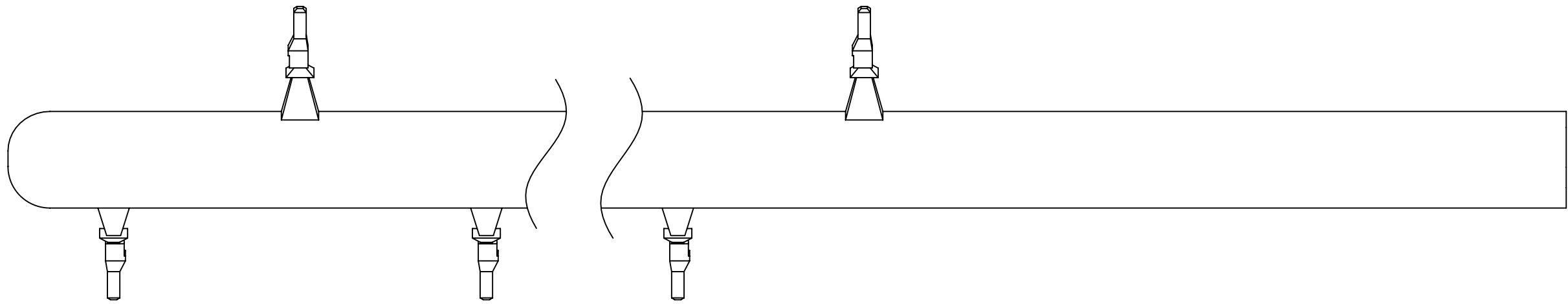


STRAIN RELIEF
3448-158XX
POSITION COUNT
(SEE TABLE)

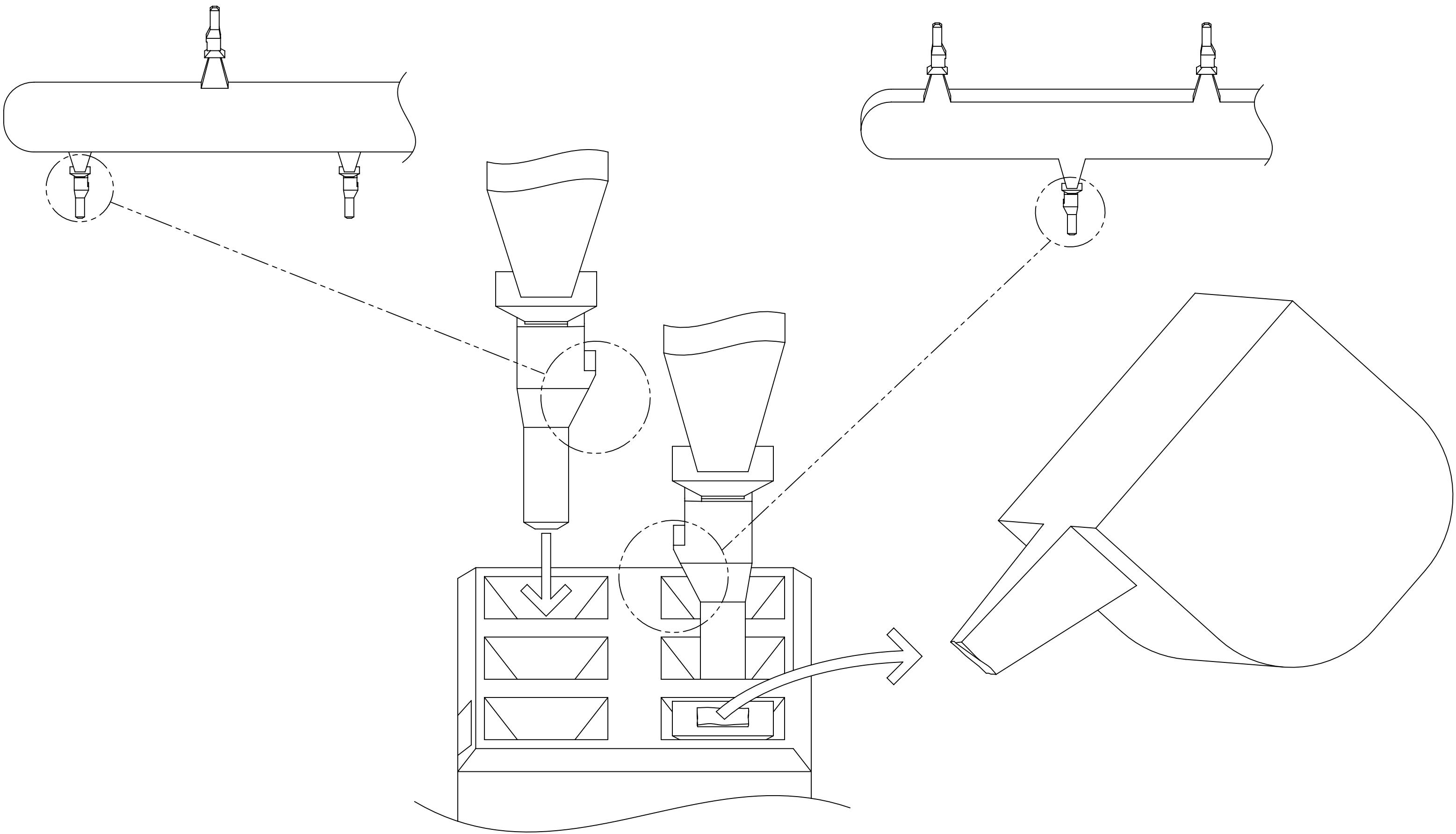
METRIC [ENGLISH]

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