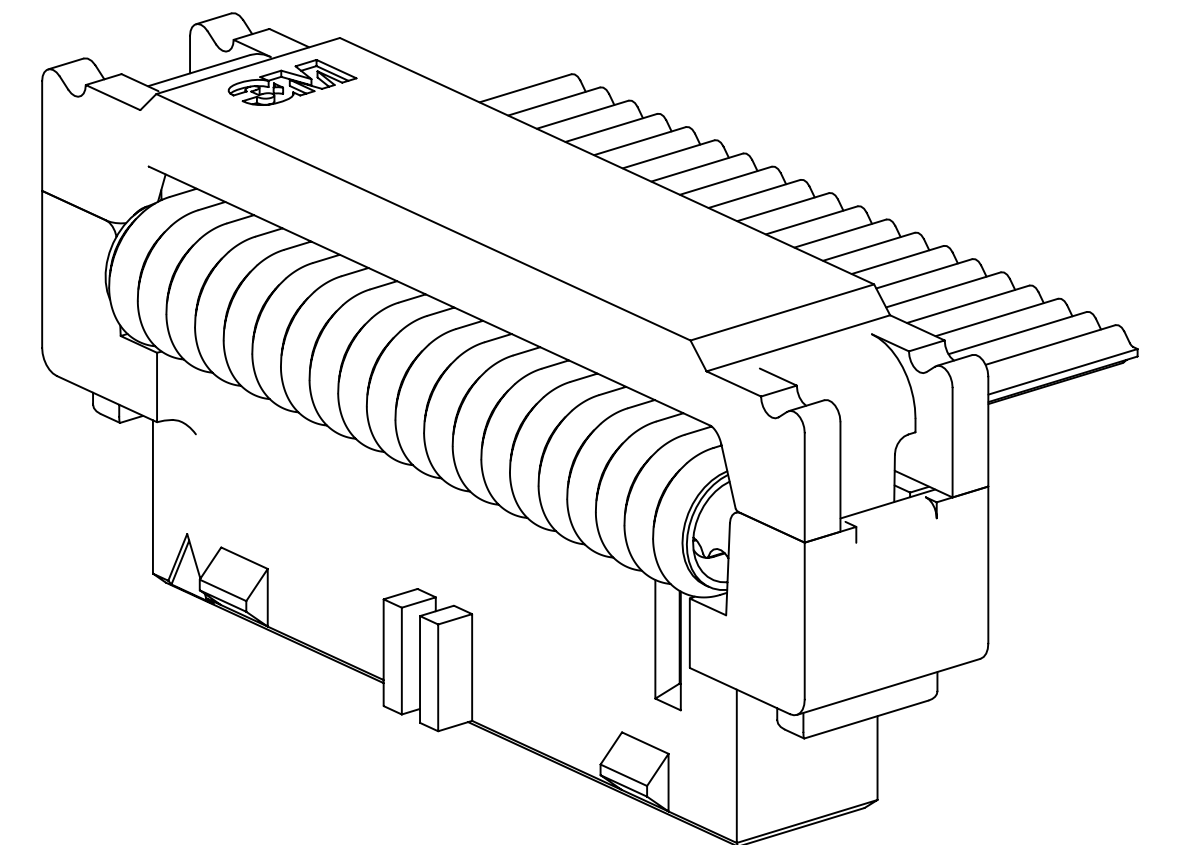
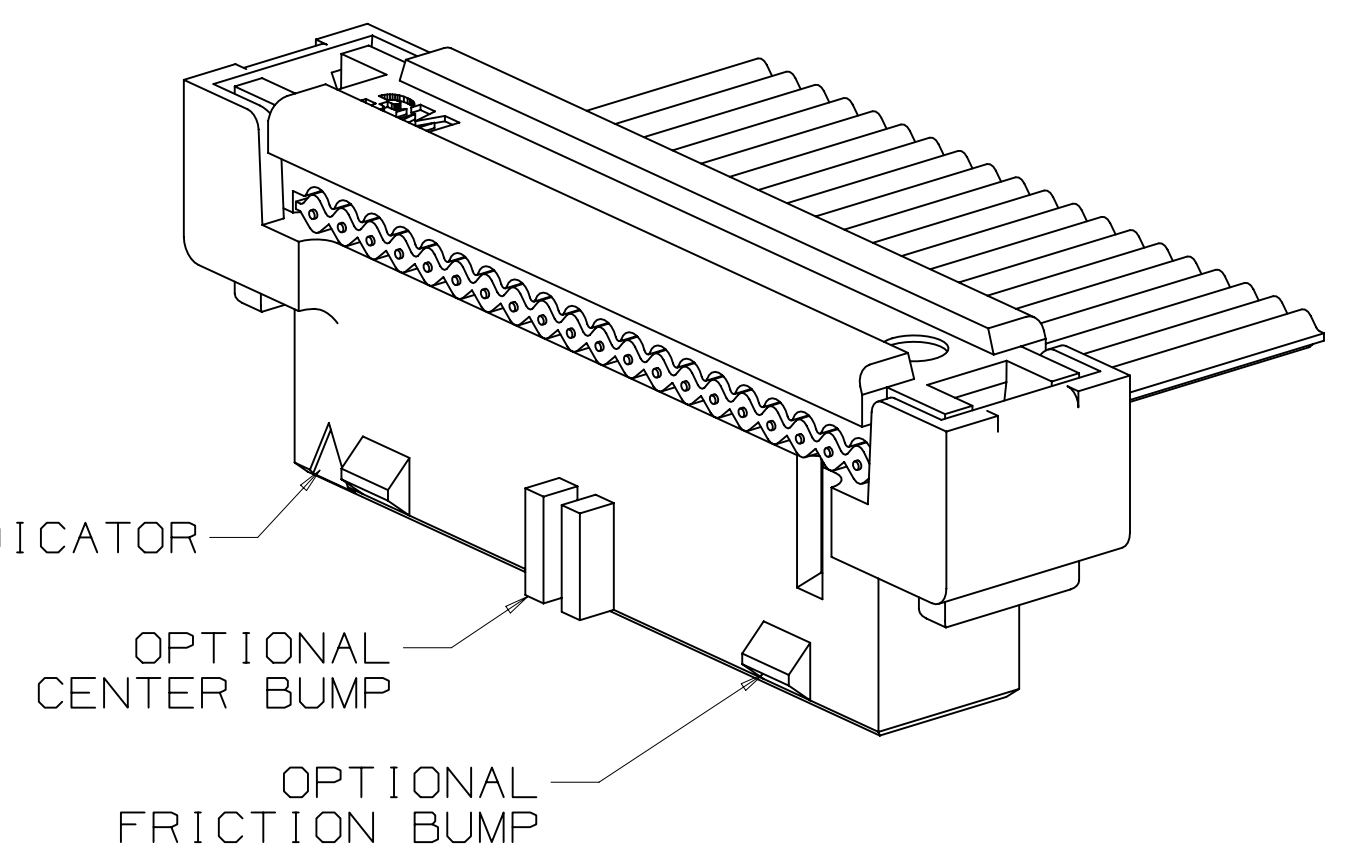
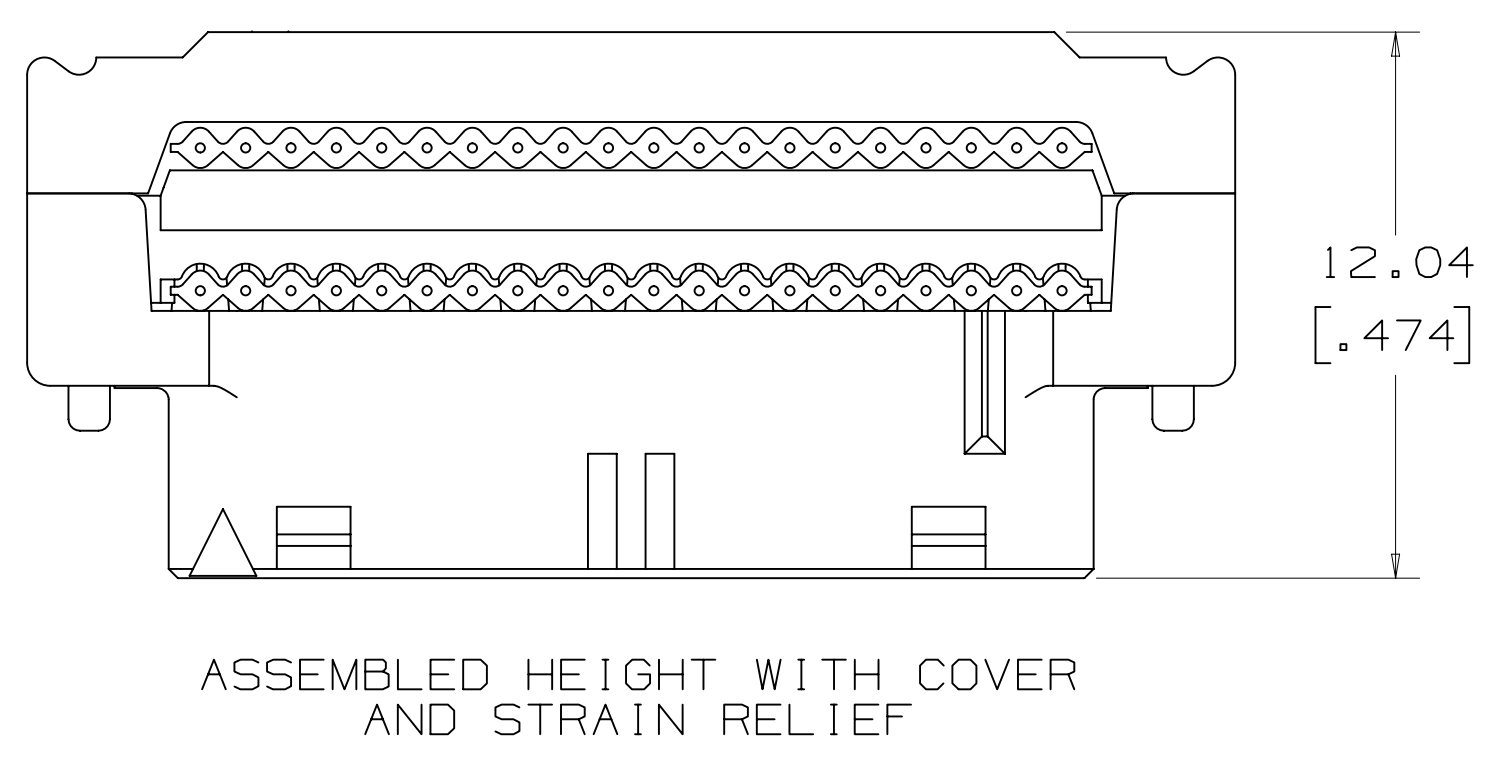
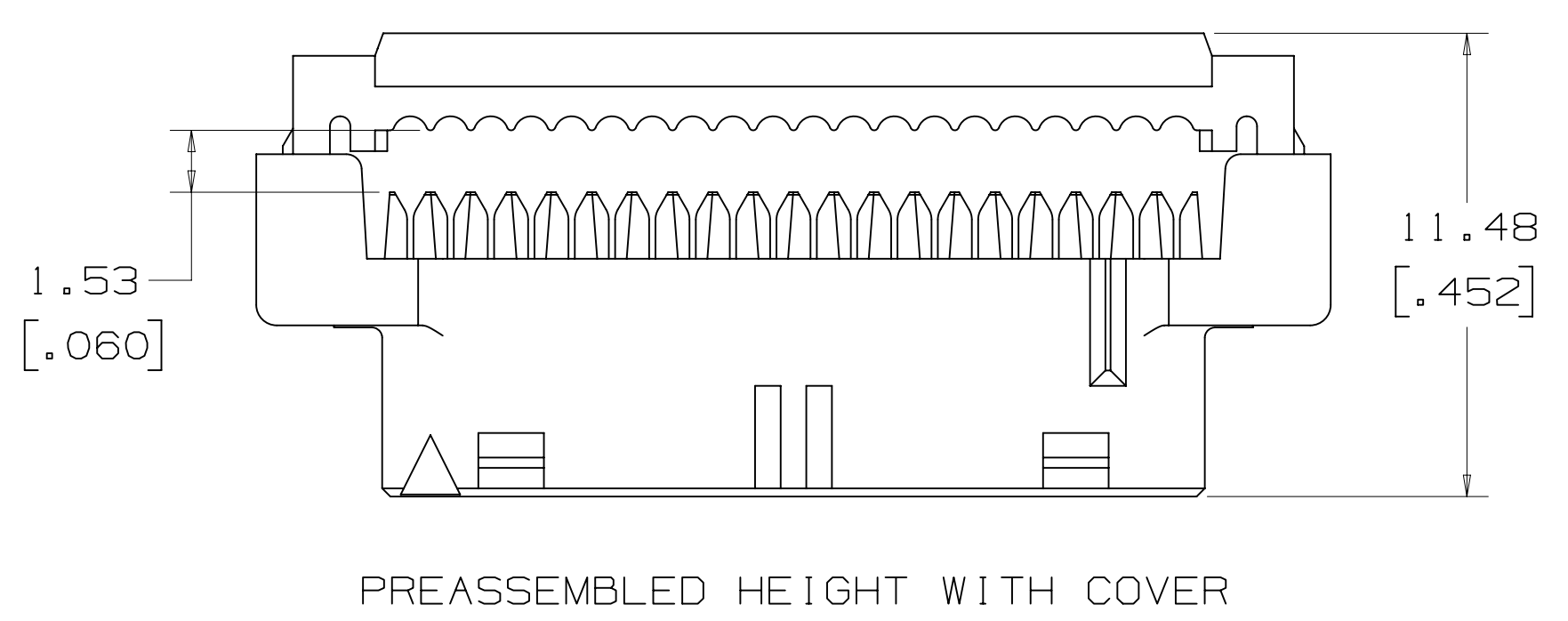
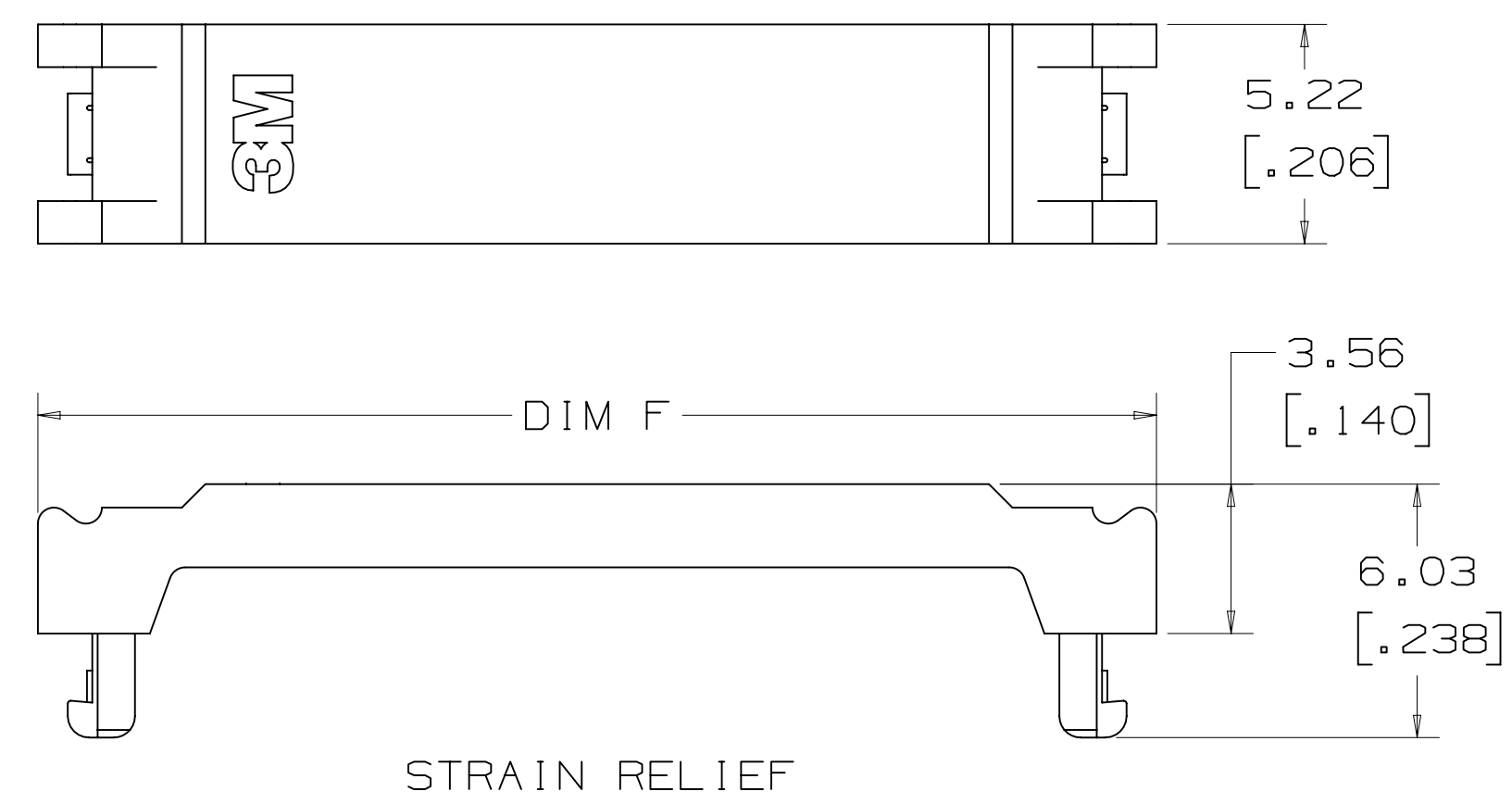
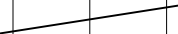
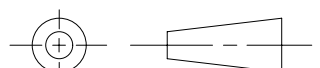
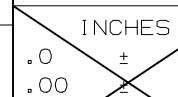


Technical drawing of a cross-section of a multi-toothed gear or rack assembly. The drawing shows a top profile with a series of teeth and a bottom profile with corresponding features. Dimensions are labeled: DIM B (total width), DIM G (width of the base), DIM A (total width including base), 1.90 (width of a single tooth), 4.19 (width of a single tooth), 8.48 (total width of the teeth), and .334 (width of a single tooth). The drawing is a technical sketch with dimension lines and numerical values.



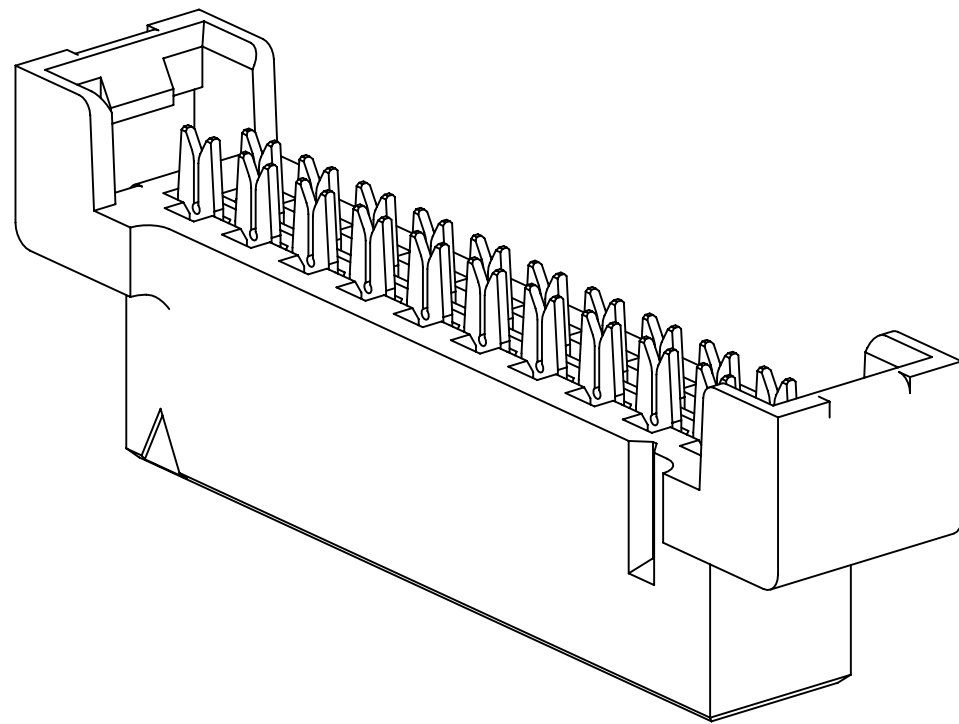
DESIGN REFERENCE		NEXT ASSEMBLY		INITIAL RELEASE					
ACCES CODES				REV	ECD	ISSUE DATE AND DESCRIPTION		DRAFT	CHKD
				DRAFT L. SCHMIDT		DATE JUL 23, 2010		MFG S. FELDMAN	
				CHKD		DATE		DATE JUL 30, 2010	
DIVISION		DIVISION CODE							
DO NOT SCALE DRAWING		SCALE 1 1		TOLERANCES EXCEPT AS NOTED		 3M Center St. Paul, MN 55144 © 3M COPYRIGHT 2010 This document and the information it contains are 3M proprietary 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					
THIRD ANGLE PROJECTION									
INTERPRET PER ASME Y14.5 - 1994		MILLIMETERS 0 ± .00 ± .000 ± .000 ± .13		CAGE NUMBER D 78-5100-2358-9					
MAX SURFACE ROUGHNESS 125 ✓ ALL SURFACES MARKED ONLY		ANGLES ± 1°							
				MODEL		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.

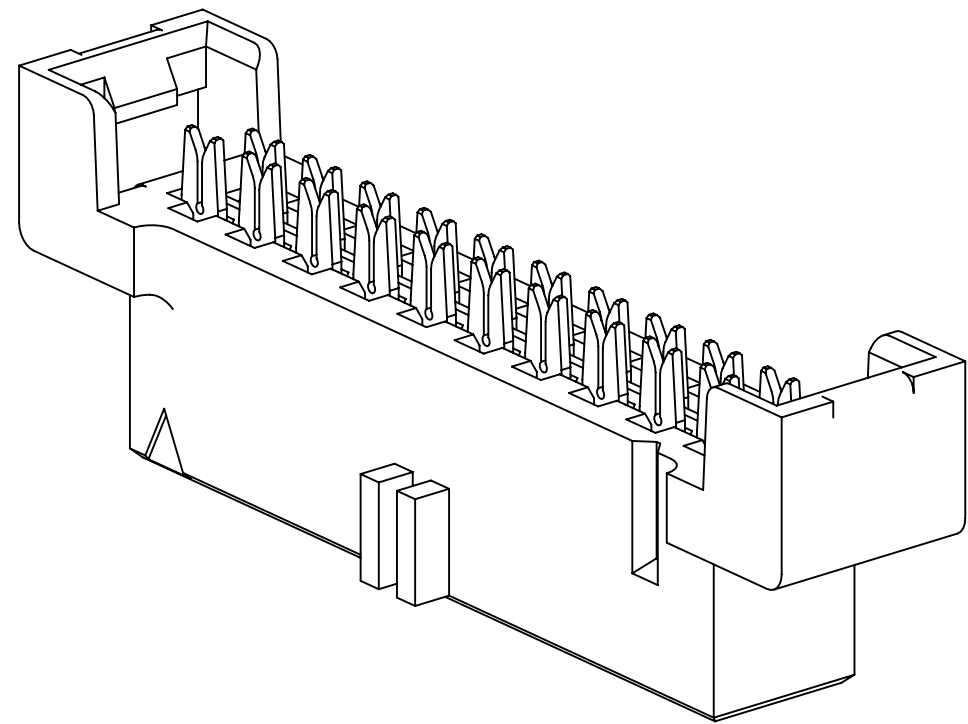
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E	41488	JUN 21, 2012 REVISED CURRENT RATING IN PERFORMANCE TABLE		LDS	SAN
D	37252	NOV 04, 2011 REVISED ORDERING INFORMATION REV C HISTORY REMOVED		LDS	SF
A	30741	OCT 28, 2010 INITIAL RELEASE		LDS	SF
REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DRFT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

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

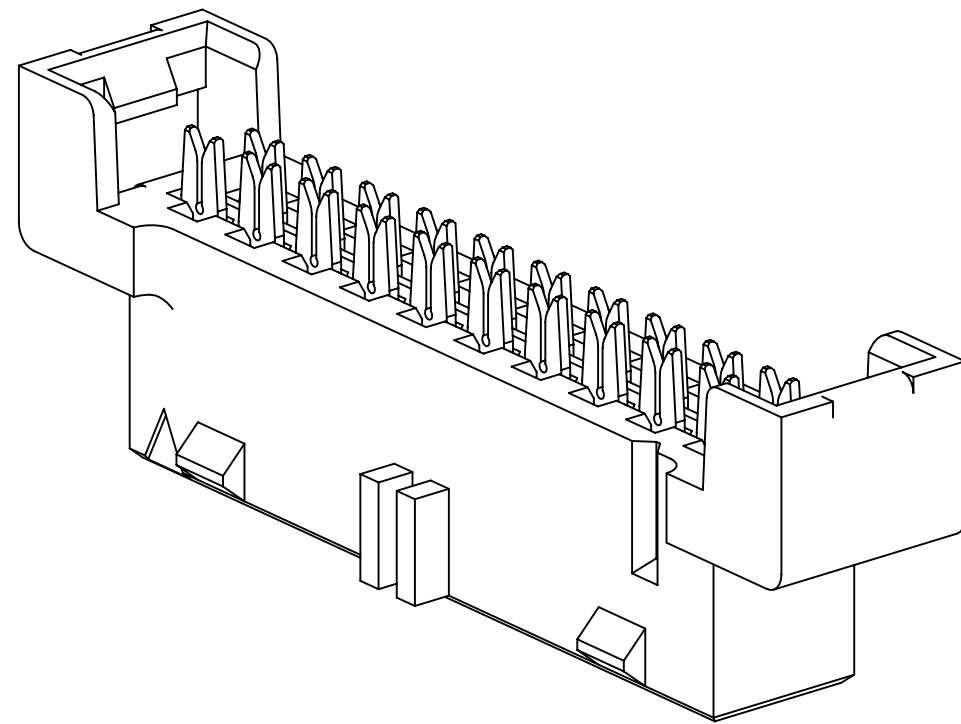
NUMBER OF POSITIONS	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G
6	6.39 [.252]	12.64 [.497]	8.98 [.354]	10.81 [.426]	11.32 [.446]	12.64 [.497]	N/A
8	8.39 [.330]	14.64 [.576]	10.98 [.432]	12.81 [.504]	13.32 [.524]	14.64 [.576]	N/A
10	10.39 [.409]	16.64 [.655]	12.98 [.511]	14.81 [.583]	15.32 [.603]	16.64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



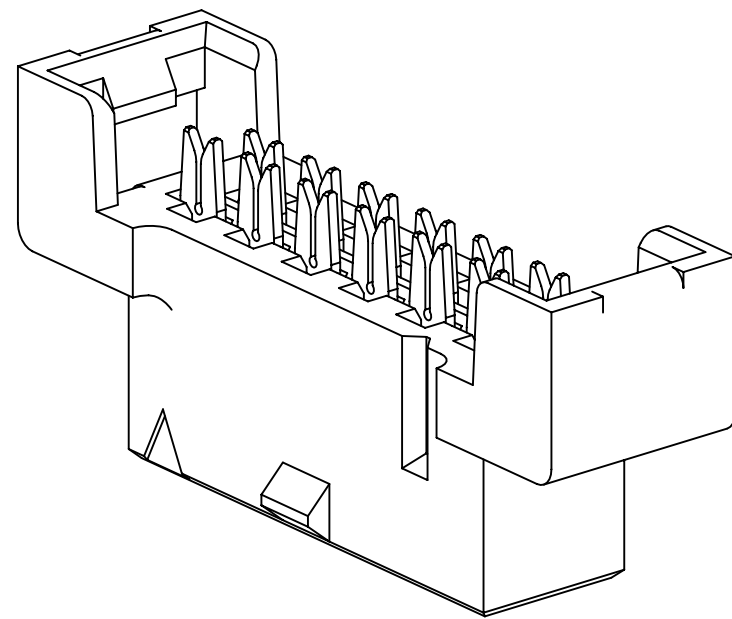
SOCKET WITHOUT OPTIONS
ALL POSITIONS



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)

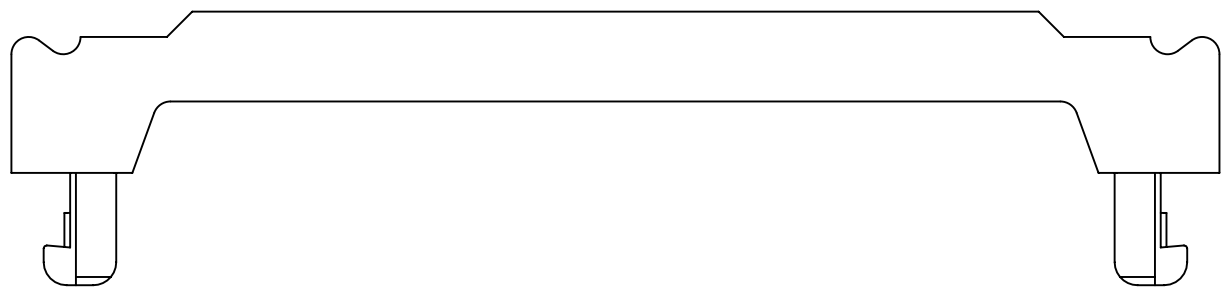
PLATING
BLANK = 0.76 μ m
[30 μ in] GOLD
PACKAGING
0 = TRAY

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

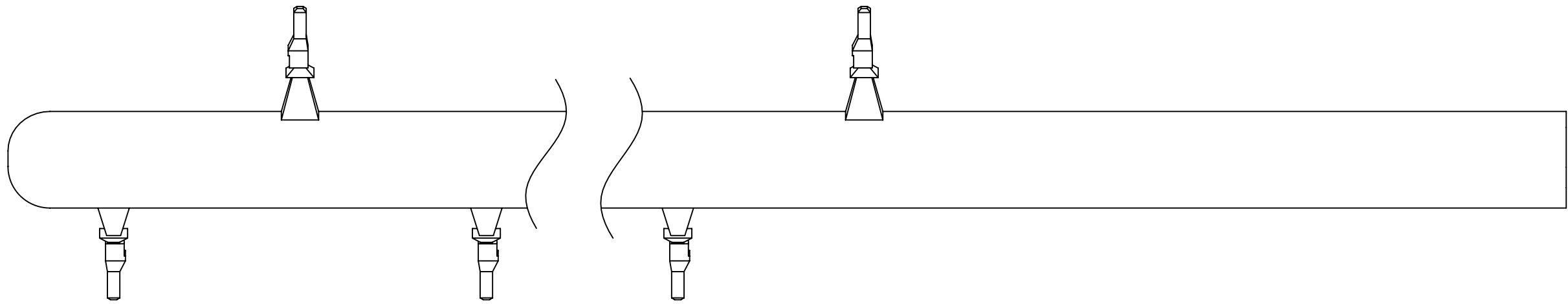


STRAIN RELIEF
3448-158XX
POSITION COUNT
(SEE TABLE)

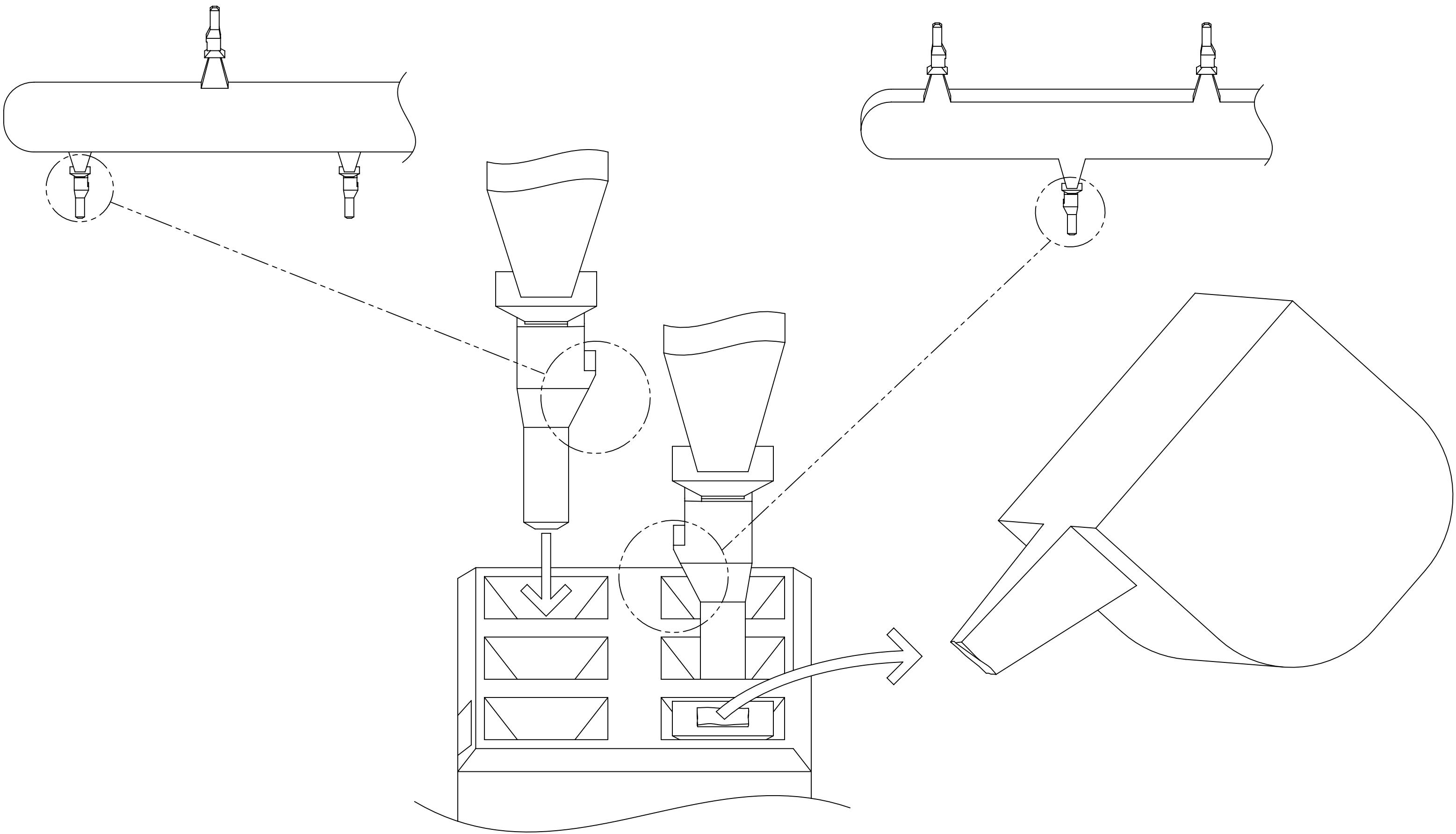
METRIC [ENGLISH]

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			
TITILE			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		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 ±		SIZE		DRAWING NO.	
		0 ±		0 ±		D		78-5100-2358-9	
		0 ±		0 ±		MODEL		REV.	
		0 ±		0 ±				F	
		0 ±		0 ±				SHT 3 OF 3	