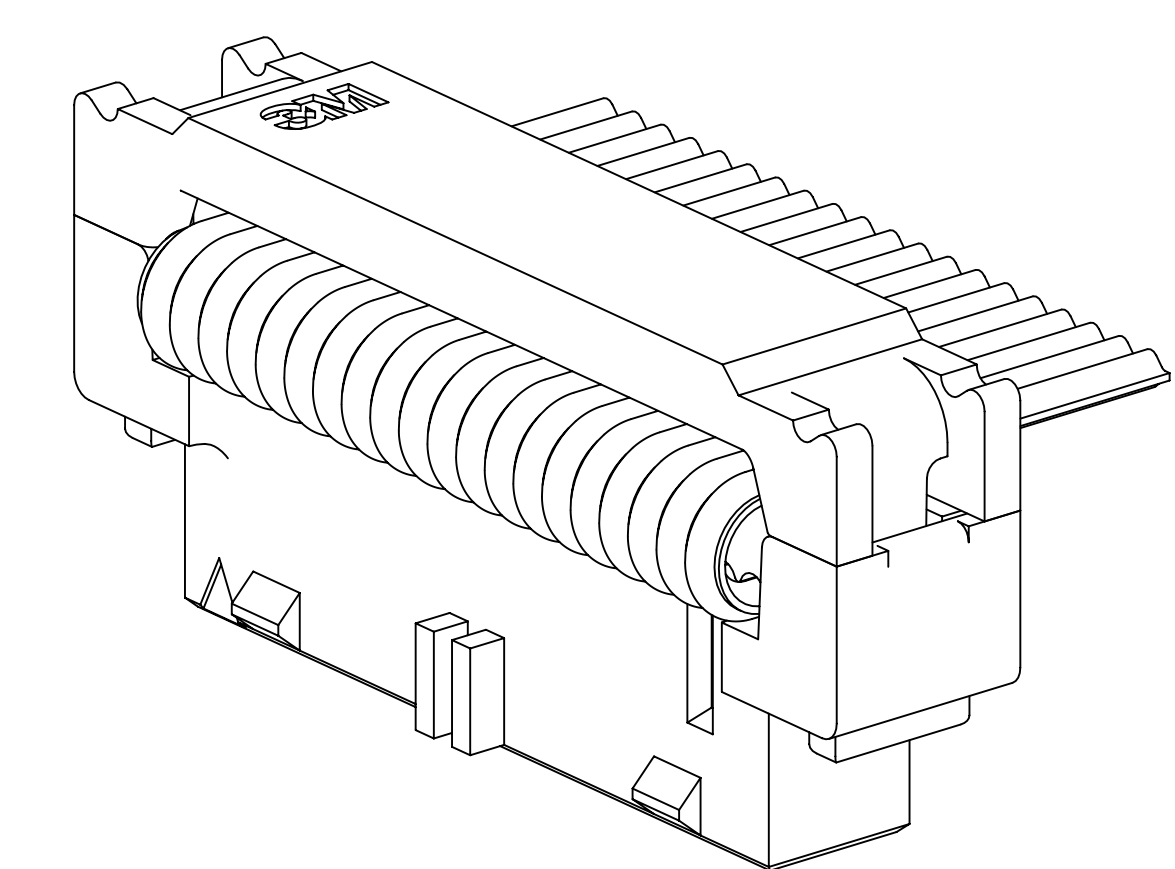
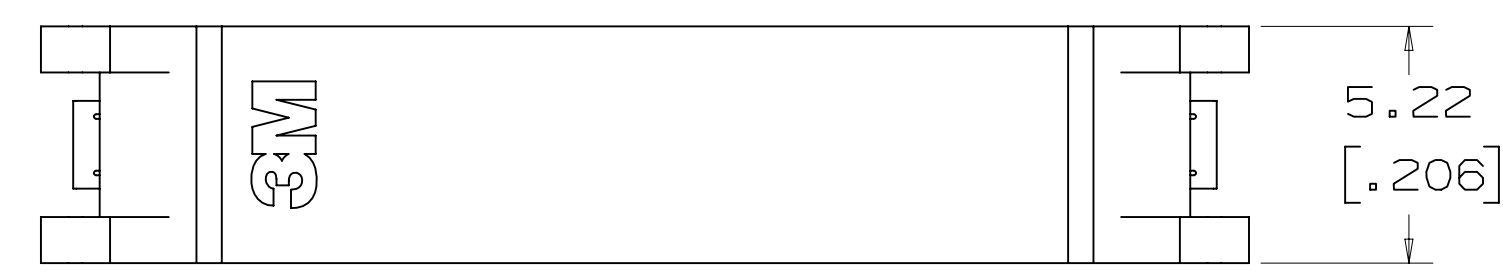


Technical drawing of a cross-section of a multi-toothed mechanical part. The drawing shows a top view with a series of teeth and a bottom view with a series of slots. Dimensions are given in inches and millimeters.

Dimensions:

- DIM B**: Total width of the part.
- DIM G**: Width of the central slot.
- DIM A**: Total width of the base.
- 8.49** [0.334]: Height of the teeth.
- 4.19** [0.165]: Height of the base.
- 1.90** [0.075]: Width of the central slot.

METRIC [ENGLISH]

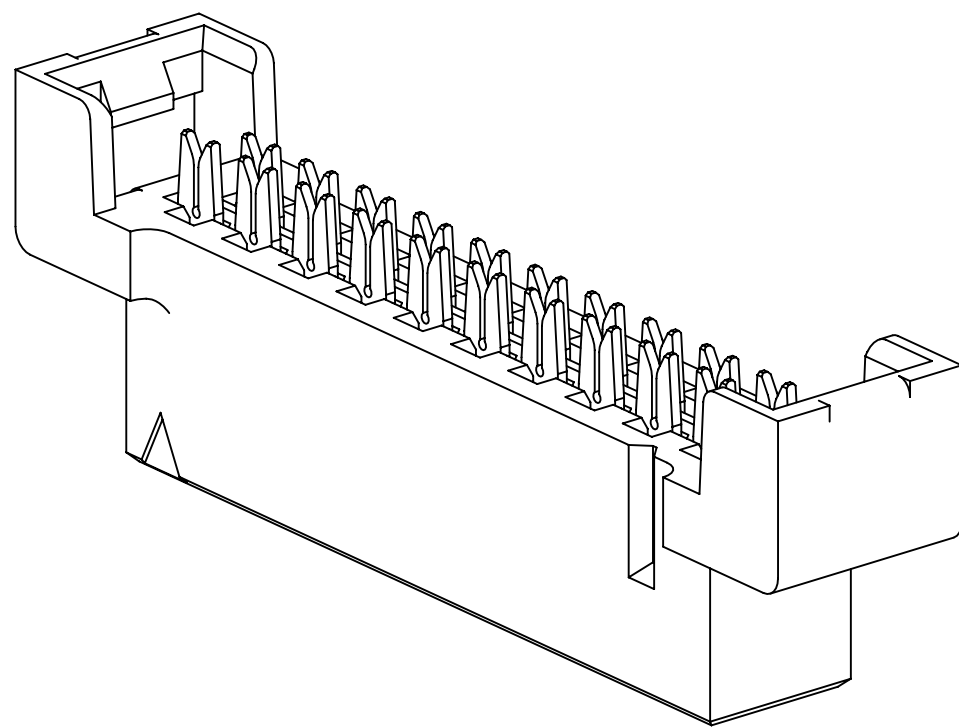
F	51692	DEC 16,2013 ADD UL SYMBOLS	SJS	SAN
E	41488	JUN 21,2012 REVISED CURRENT RATING IN PERFORMANCE TABLE	LDS	SAN
D	37252	NOV 04,2011 REVISED ORDERING INFORMATION REV C HISTORY REMOVED	LDS	SF
A	30741	OCT 28,2010 INITIAL RELEASE	LDS	SF

REV	ECO	ISSUE DATE AND DESCRIPTION			DRPT	CHKD
DRP	L	SCHMIDT	DATE JUL 23, 2010	MFG DATE		
CHWD			DATE	APPR 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 × 2 MM PITCH 158 SERIES						
CAGE NUMBER	SIZE	DRAWING NO.				REV.
D		78-5100-2358-9				F
MODEL	DET		158	FLYES	NO	SHT 1 OF

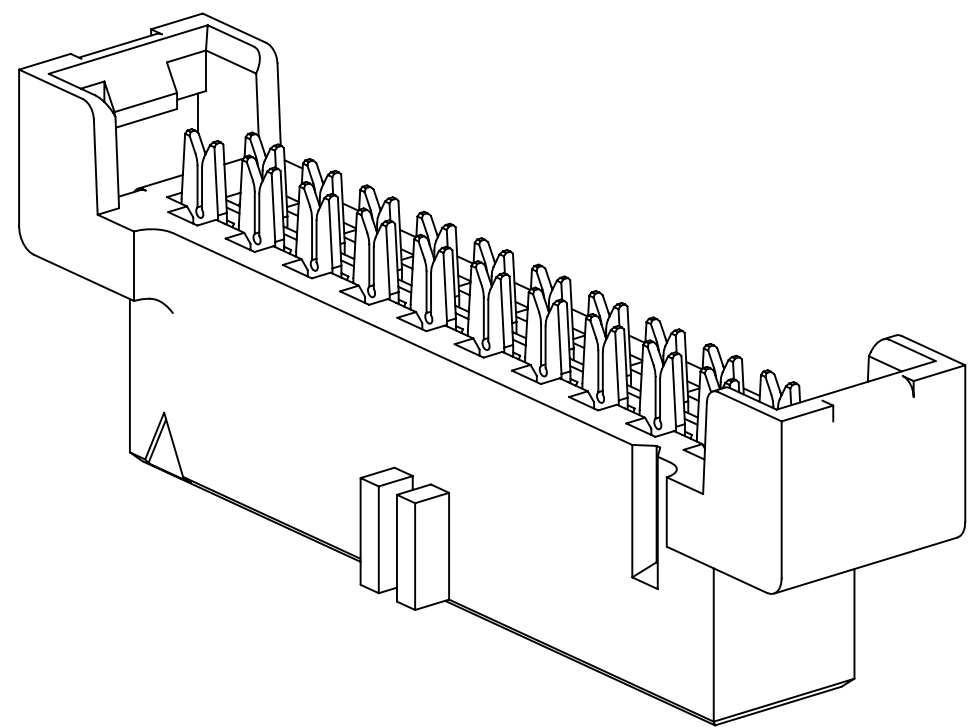
- | NOTES | |
|-------|---|
| 1 | MATERIAL:
BODY: HIGH TEMP GLASS
FILLED POLYESTER,
GRAY UL94V-0
CONTACTS: COPPER ALLOY |
| 2 | PLATING:
2.03-3.81 μm [80-150 μin]
NICKEL UNDERPLATE
0.38 μm [15 μin] OR
0.76 μm [30 μin] AVG
GOLD ON WIPING AREA. |
| 3 | RIBBON CABLE:
RECOMMENDED: 3M™ 3625
(28 AWG, 7 STRAND). |
| 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. |

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

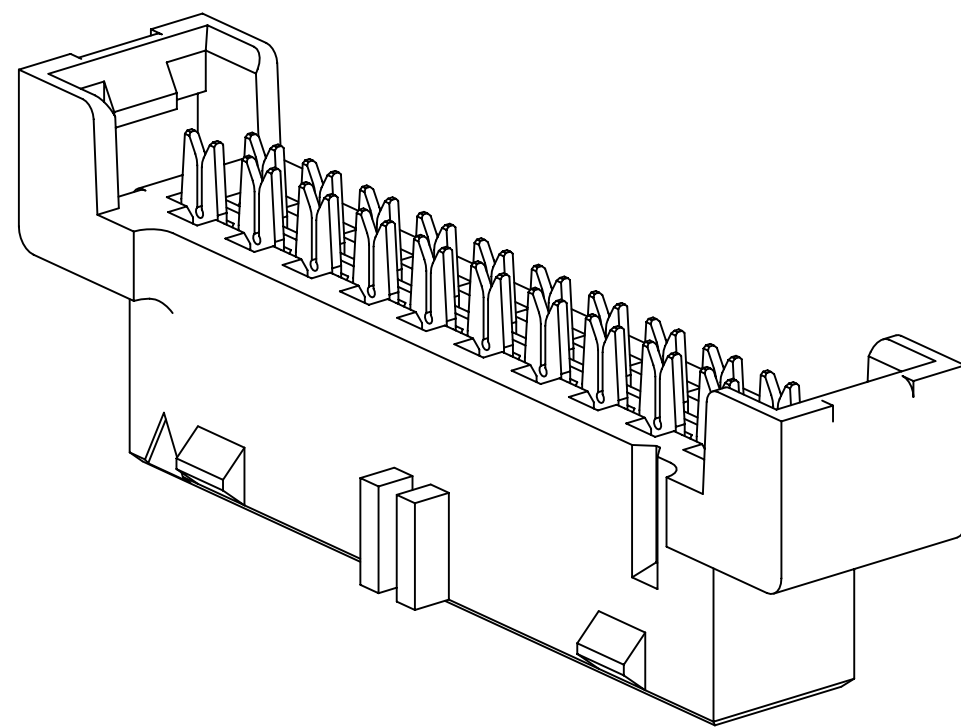
NUMBER OF POSITIONS	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G
6	6.39 [.252]	12.64 [.497]	8.98 [.354]	10.81 [.426]	11.32 [.446]	12.64 [.497]	N/A
8	8.39 [.330]	14.64 [.576]	10.98 [.432]	12.81 [.504]	13.32 [.524]	14.64 [.576]	N/A
10	10.39 [.409]	16.64 [.655]	12.98 [.511]	14.81 [.583]	15.32 [.603]	16.64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



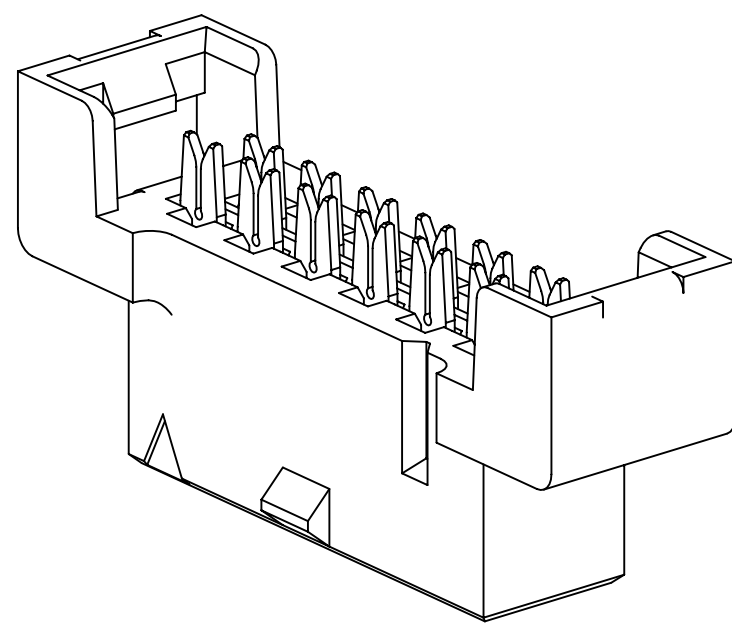
SOCKET WITHOUT OPTIONS
ALL POSITIONS



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)

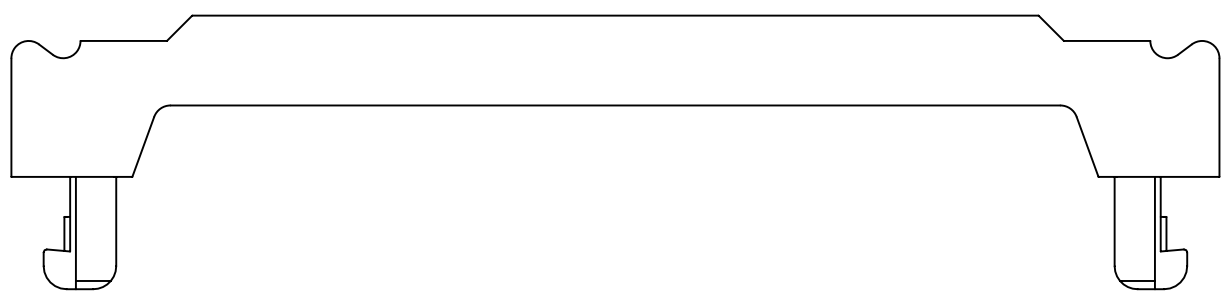
PLATING
BLANK = 0.76 μ m
[30 μ in] GOLD
PACKAGING
0 = TRAY

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

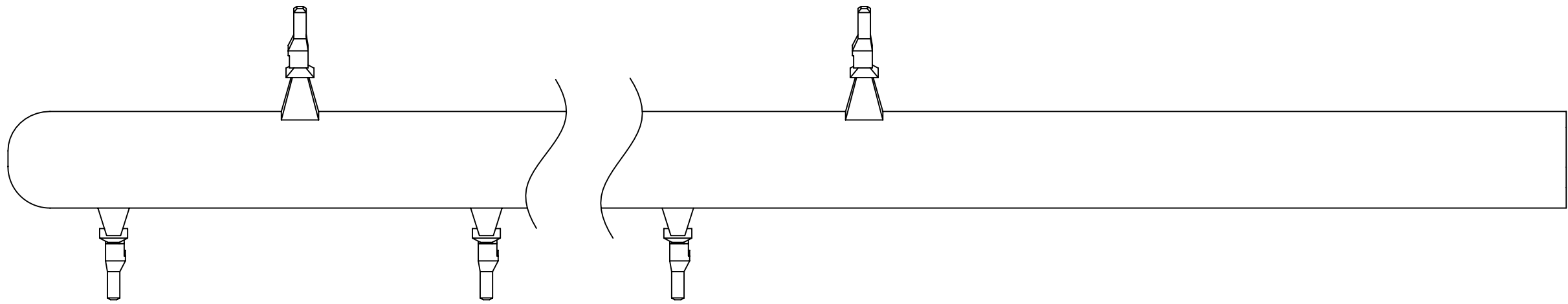


STRAIN RELIEF
3448-158XX
POSITION COUNT
(SEE TABLE)

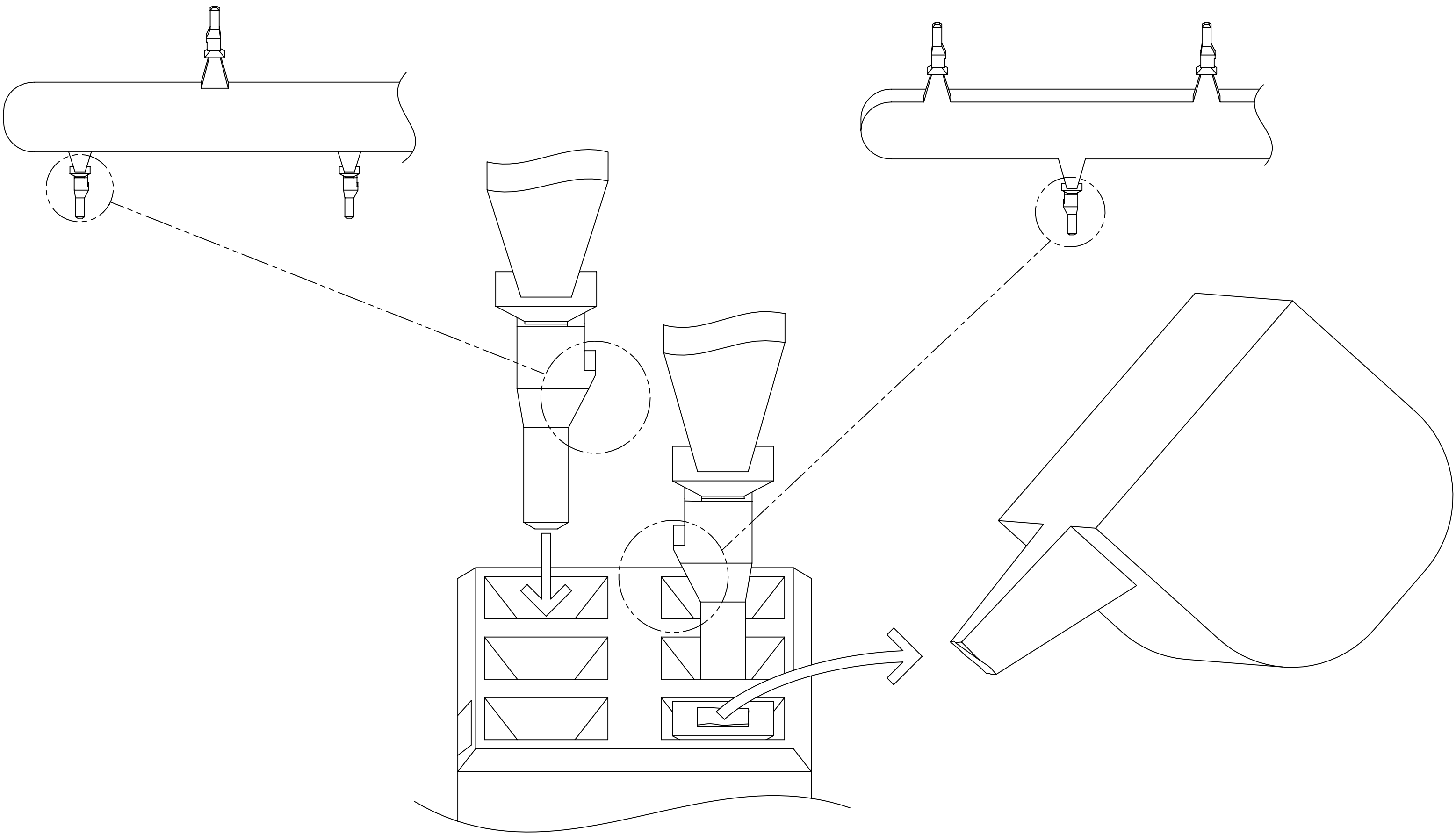
METRIC [ENGLISH]

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
1581XX-1X00	1582XX-0X20XX	L. SCHMIDT	JUL 23, 2010	MFG	DATE	DATE
DIVISION	DIVISION CODE	CHKD	DATE	APPRV	DATE	DATE
DO NOT SCALE DRAWING	SCALE 6-1	TOLERANCES EXCEPT AS NOTED	INCHES	0.00 ±	0.00 ±	0.00 ±
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 1994	MILLIMETERS	0 ±	0.00 ±	0.00 ±	0.00 ±
MAX SURFACE ROUGHNESS 125	ALL SURFACES MARKED ONLY	ANGLES ±1°	0 ±	0.00 ±	0.00 ±	0.00 ±
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			
INTERPRET PER ASME Y14.5 - 1994		0 ±		0 ±		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		0 ±		0 ±		TITLE			
ALL SURFACES		0 ±		0 ±		3M RIBBON CABLE SOCKET 2 MM x 2 MM PITCH 158 SERIES			
MARKED ONLY		0 ±		0 ±		CAGE NUMBER			
		0 ±		0 ±		D 78-5100-2358-9			
		0 ±		0 ±		MODEL			
		0 ±		0 ±		DET			
		0 ±		0 ±		YES NO			
		0 ±		0 ±		SHT 3 OF 3			