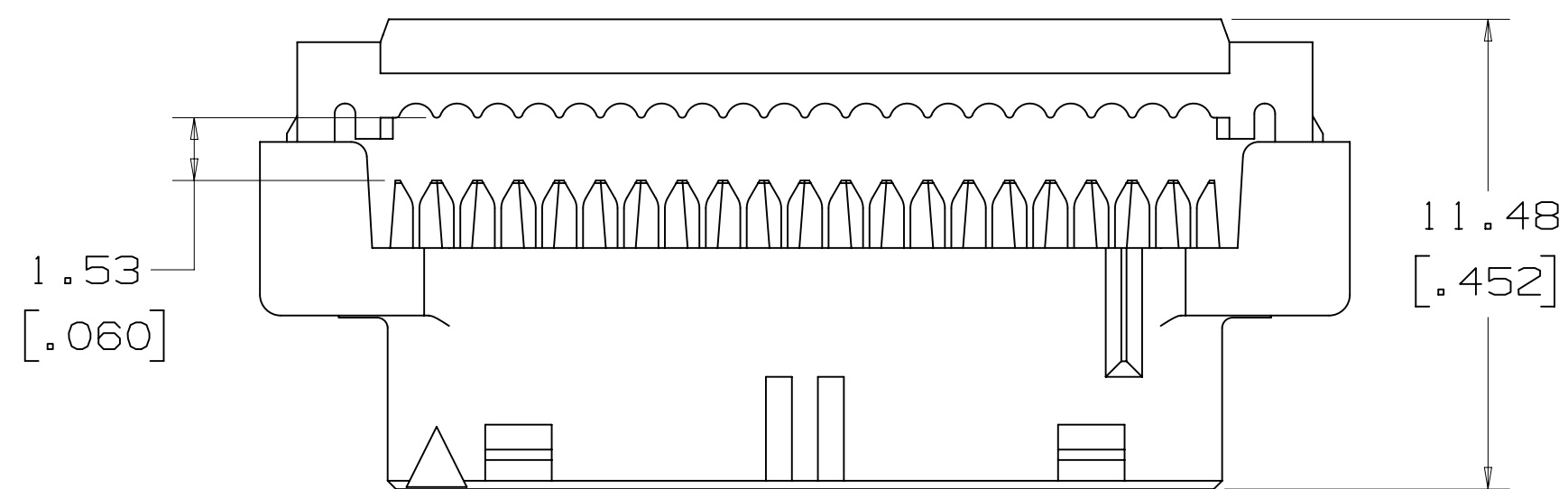
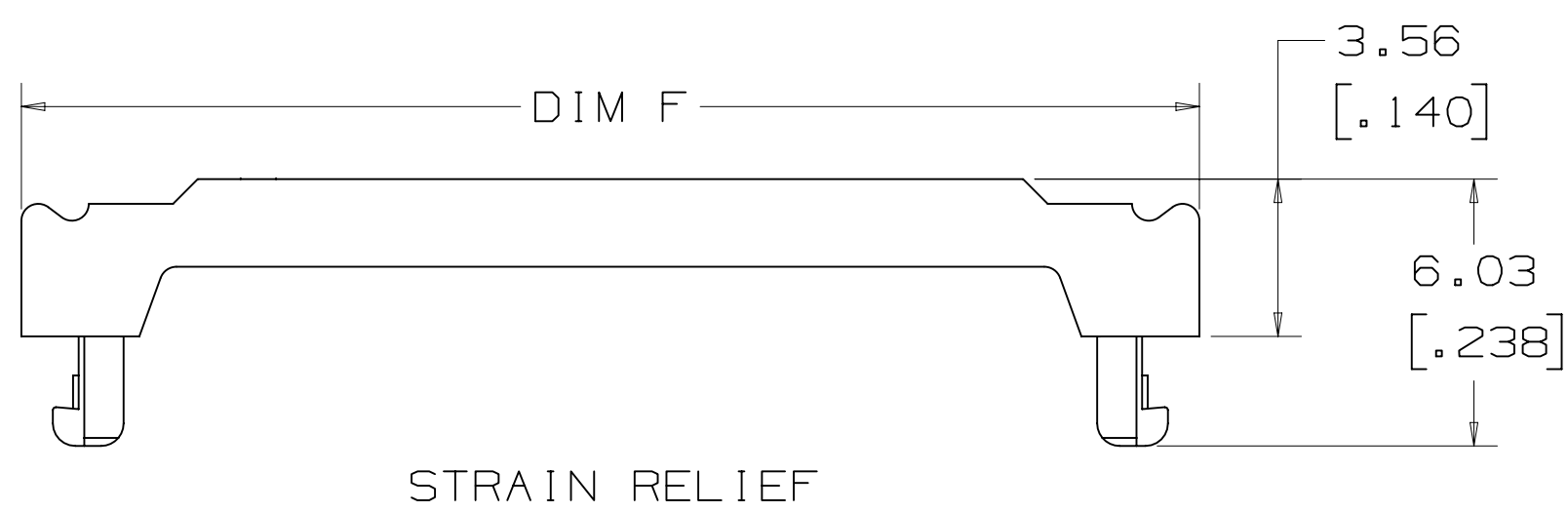
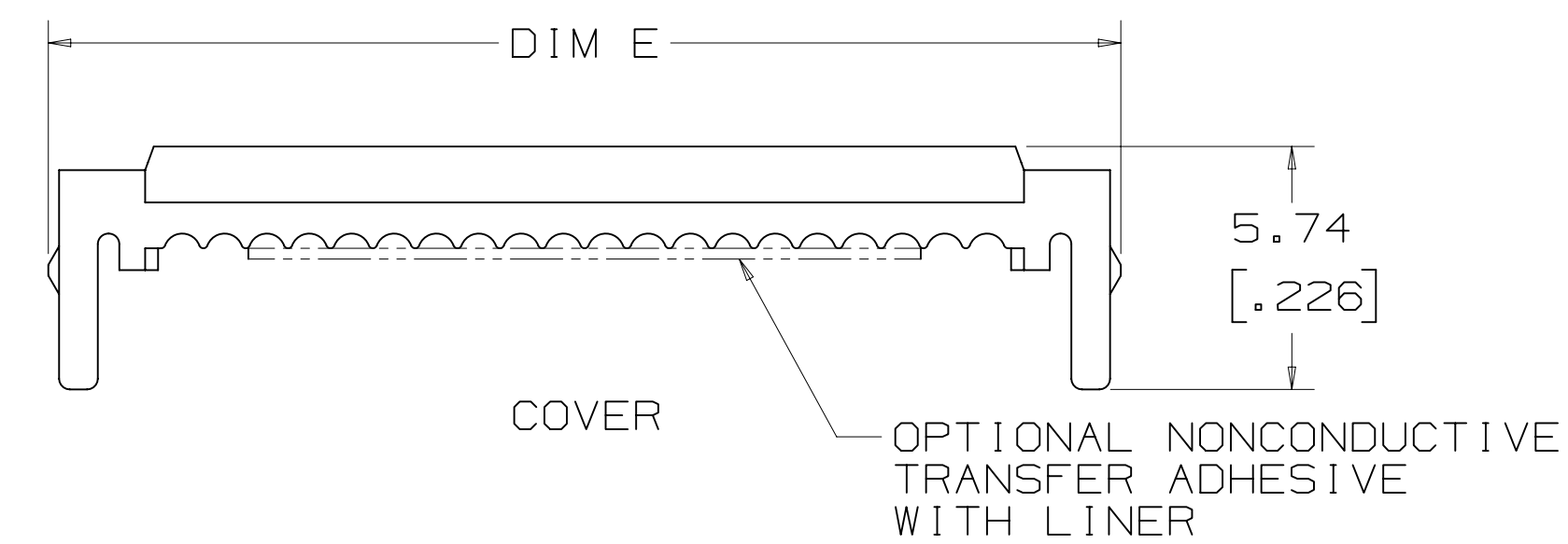
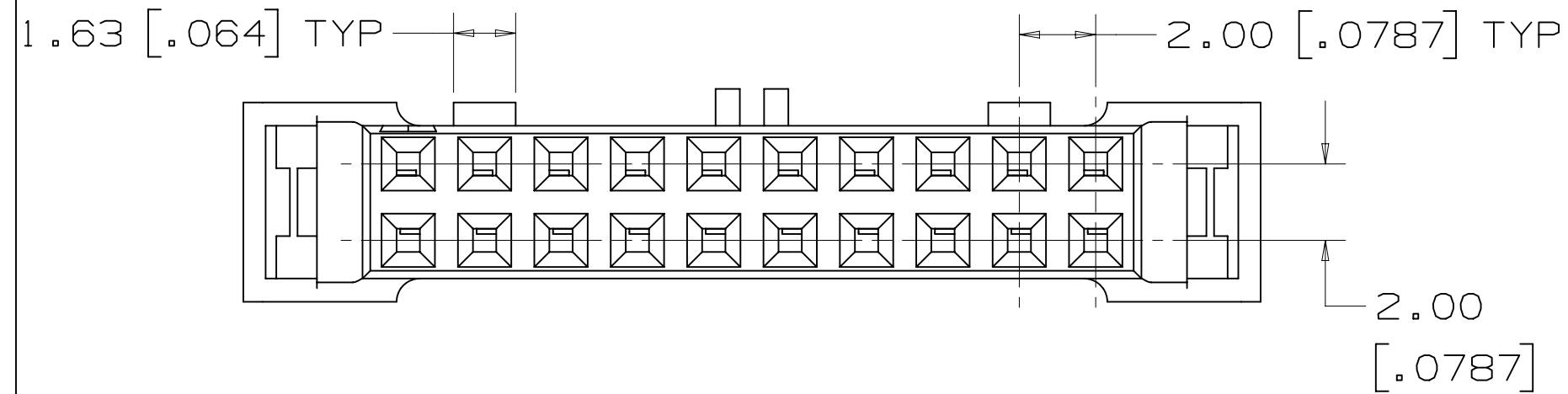
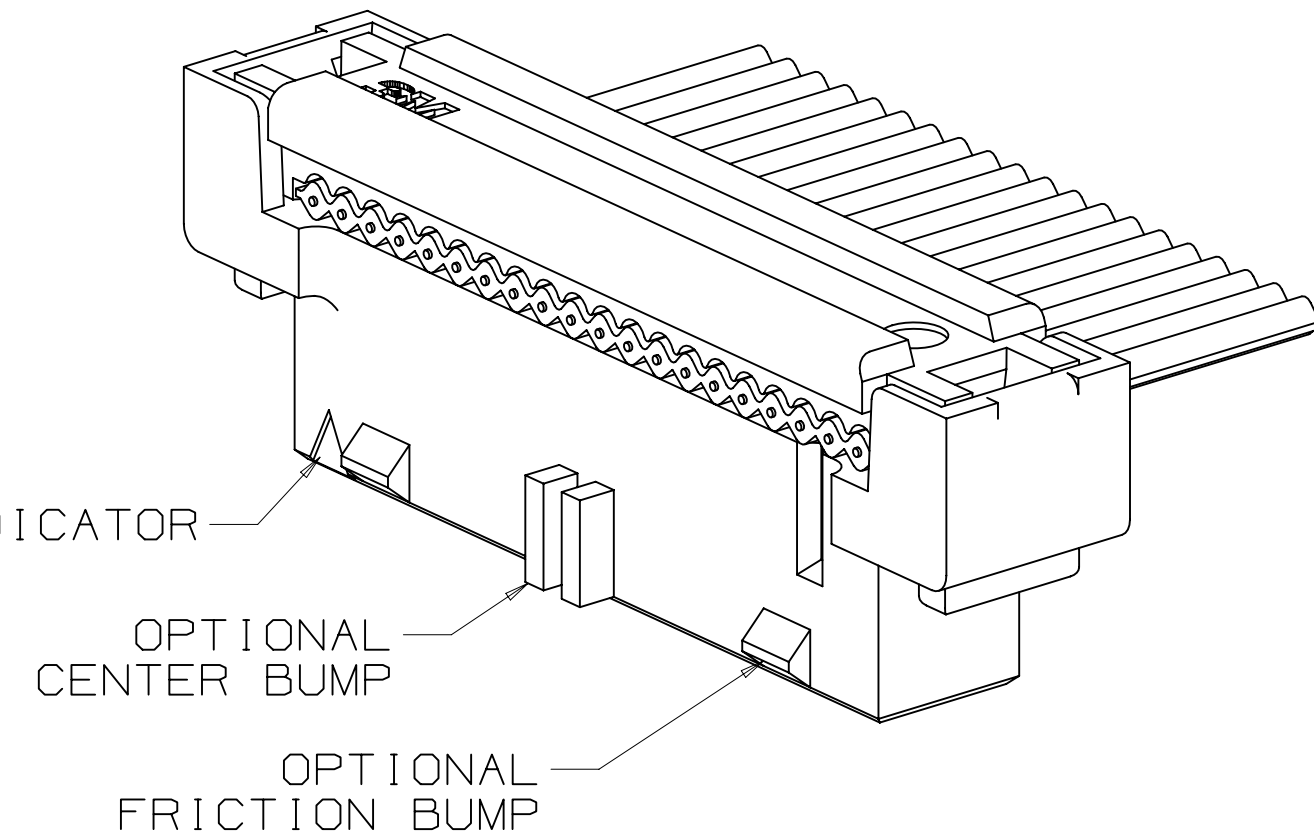
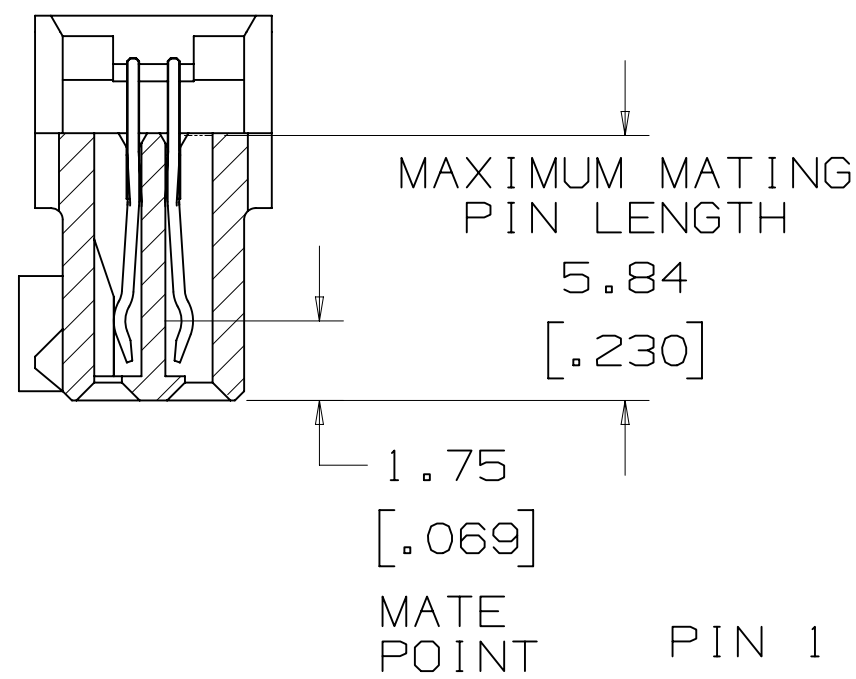
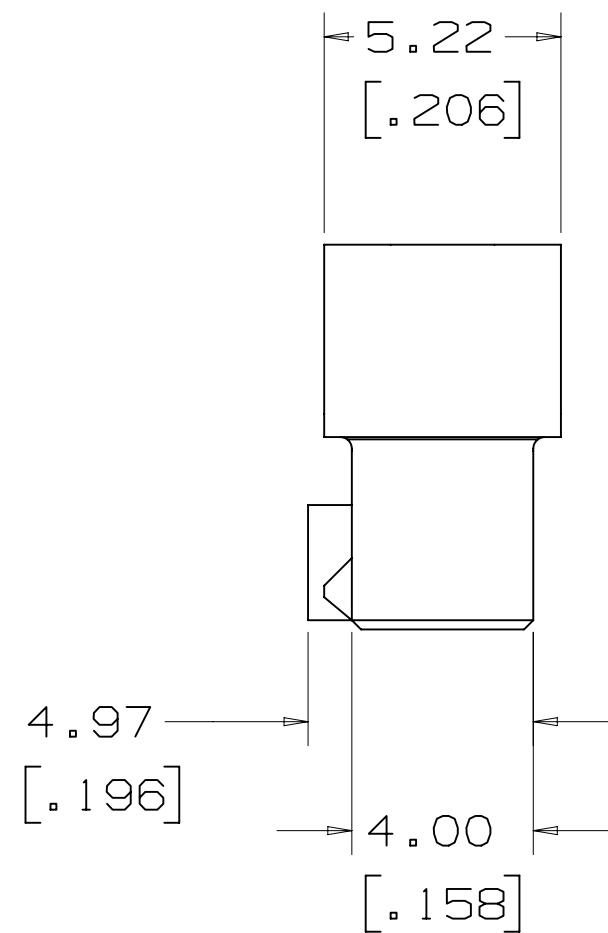
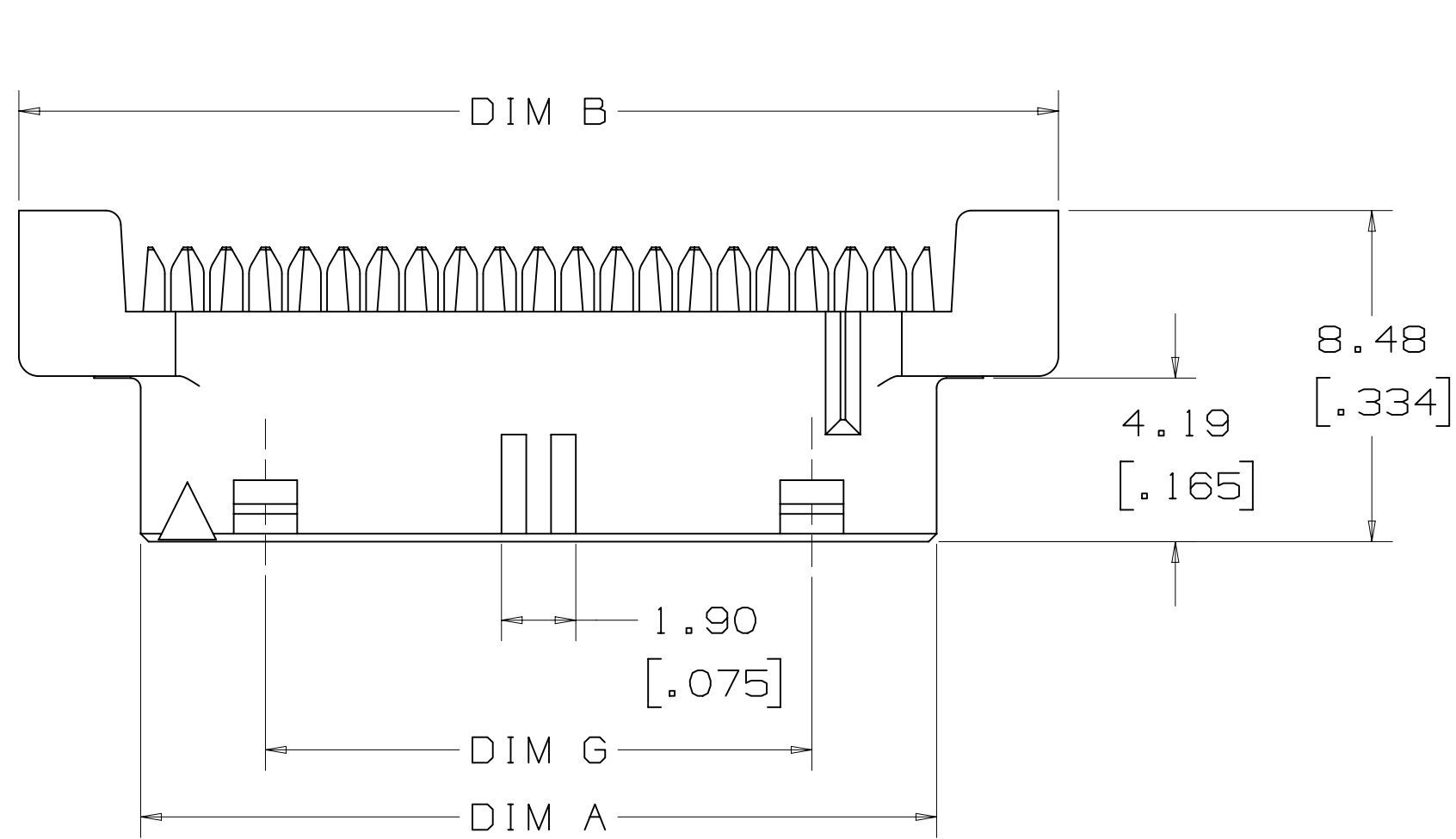
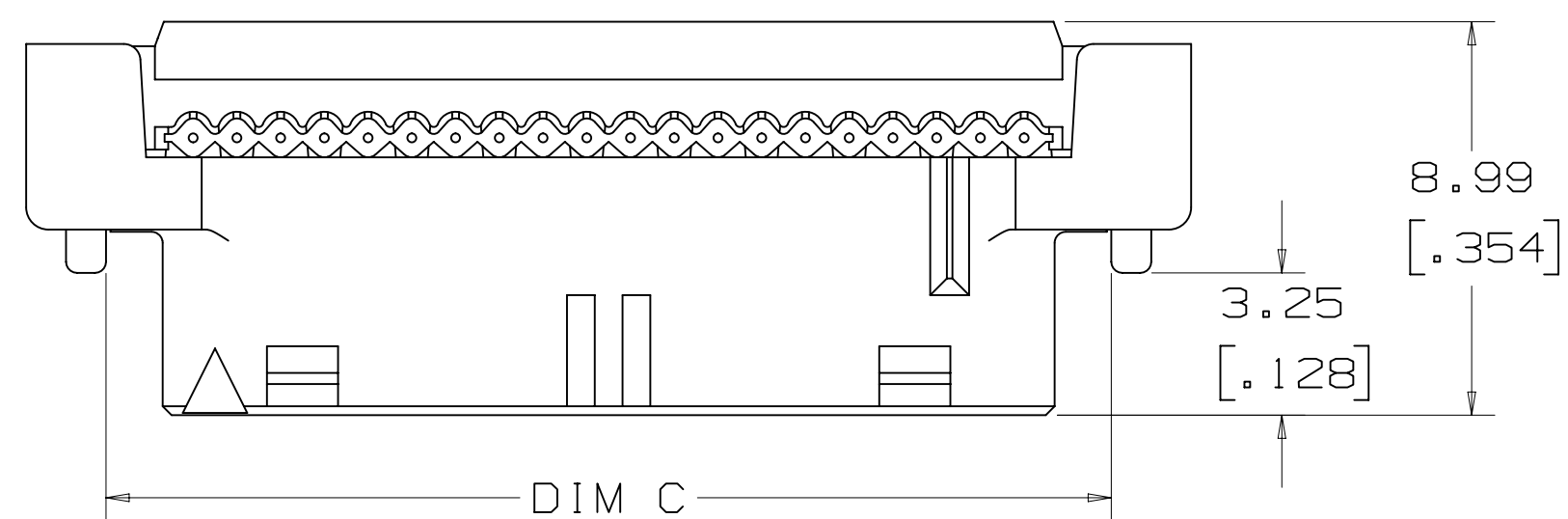


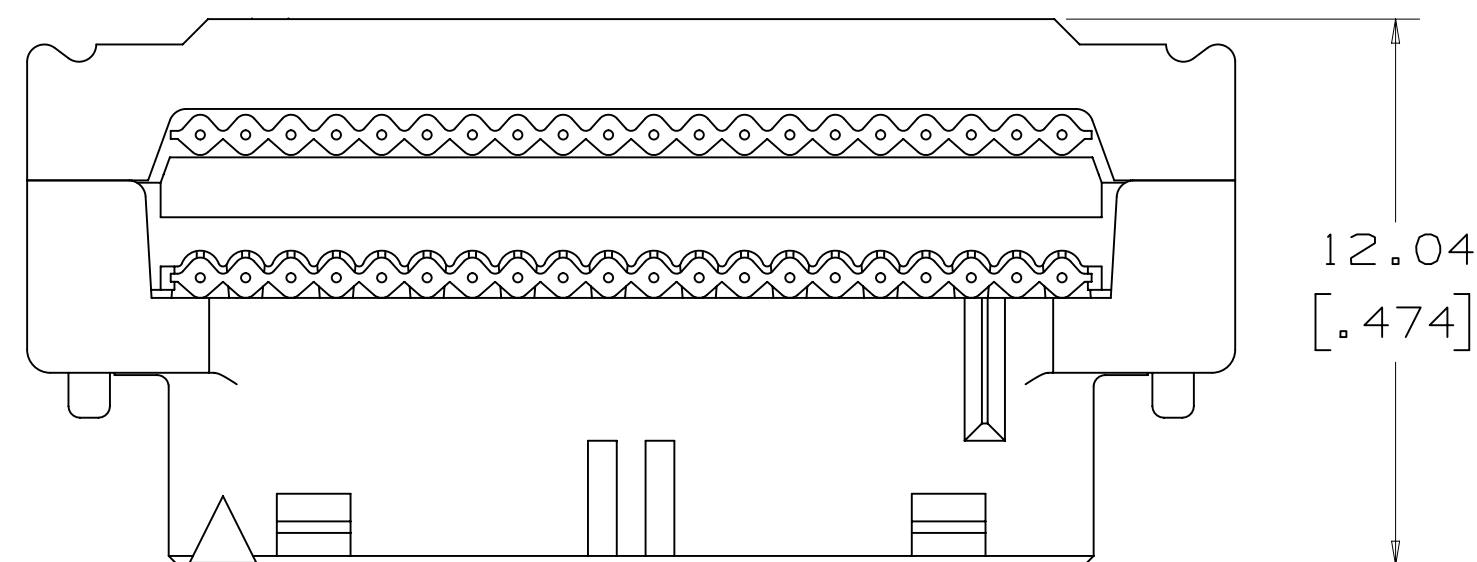
3M™ Ribbon Cable Socket 2 mm X 2 mm Pitch 158 Series



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]

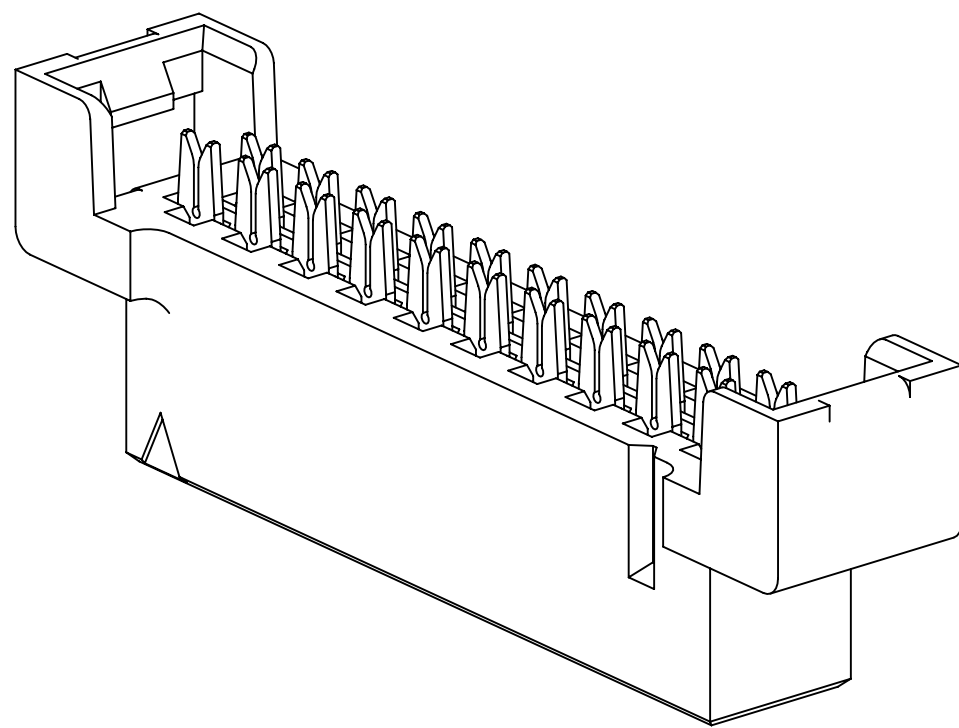
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DESIGN REFERENCE	NEXT ASSEMBLY
DO NOT SCALE DRAWING	SCALE 6-1
THIRD ANGLE PROJECTION	TOLERANCES EXCEPT AS NOTED
INTERPRET PER ASME Y14.5 - 1994	INCHES
MAX SURFACE ROUGHNESS	MILLIMETERS
ALL SURFACES MARKED ONLY	ANGLES ±1°

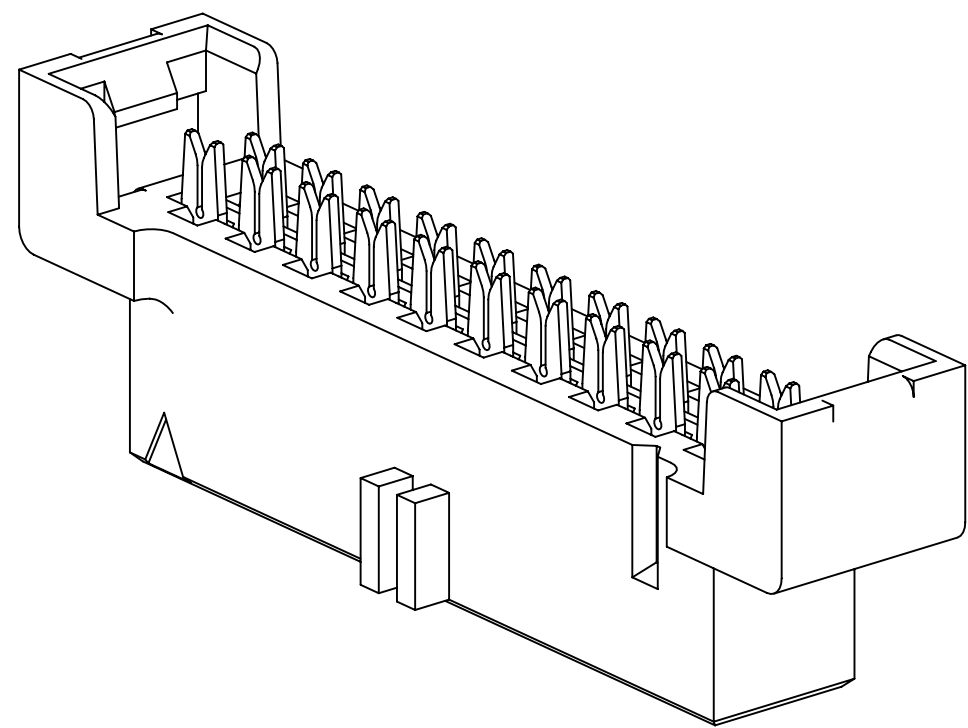
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
F	51692	DEC 16, 2013 ADD UL SYMBOLS	SJS	SAN
E	41488	JUN 21, 2012 REVISED CURRENT RATING IN PERFORMANCE TABLE	LDS	SAN
D	37252	NOV 04, 2011 REVISED ORDERING INFORMATION REV C HISTORY REMOVED	LDS	SF
A	30741	OCT 28, 2010 INITIAL RELEASE	LDS	SF
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DRFT	CHKD	DATE	DATE	DATE
L. SCHMIDT	DATE	JUL 23, 2010	DATE	JUL 30, 2010
S. FELDMAN	DATE	JUL 30, 2010	DATE	JUL 30, 2010
3M Center St. Paul, MN 55144				
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3M RIBBON CABLE SOCKET 2 MM x 2 MM PITCH 158 SERIES				
CAGE NUMBER	SIZE	DRAWING NO.	REV.	
125	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

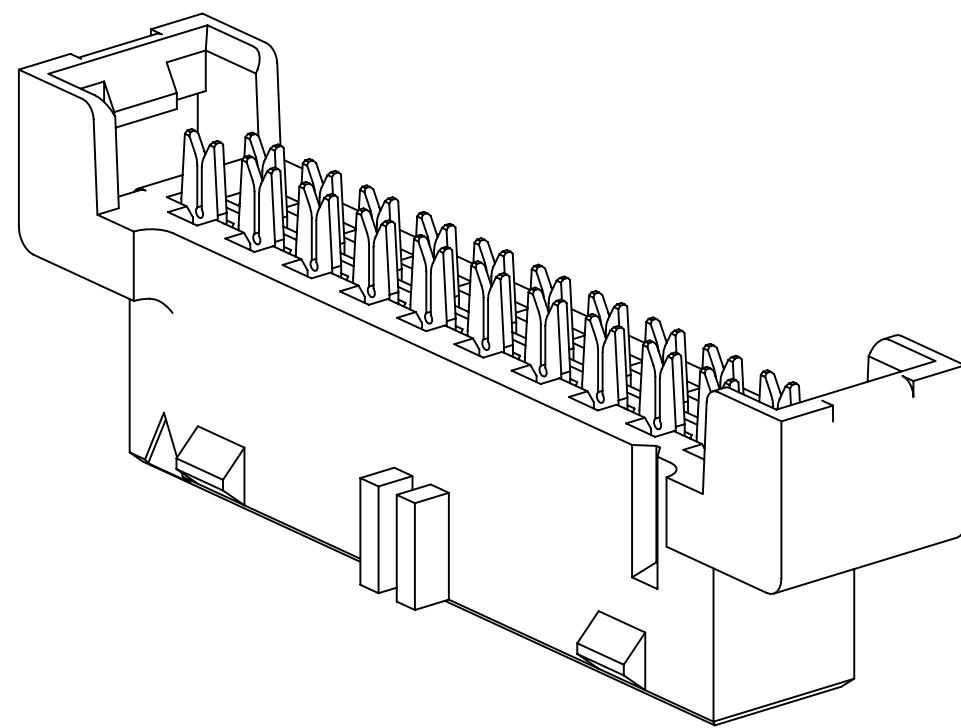
NUMBER OF POSITIONS	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G
6	6.39 [.252]	12.64 [.497]	8.98 [.354]	10.81 [.426]	11.32 [.446]	12.64 [.497]	N/A
8	8.39 [.330]	14.64 [.576]	10.98 [.432]	12.81 [.504]	13.32 [.524]	14.64 [.576]	N/A
10	10.39 [.409]	16.64 [.655]	12.98 [.511]	14.81 [.583]	15.32 [.603]	16.64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



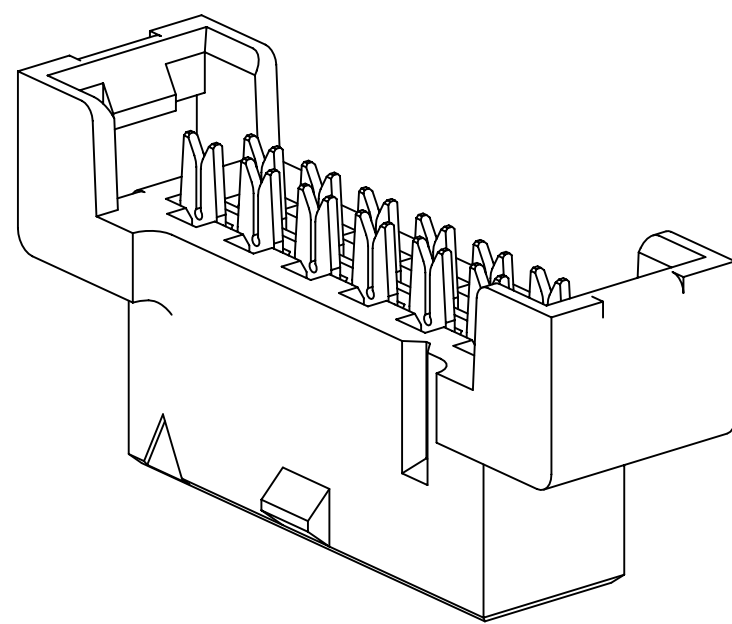
SOCKET WITHOUT OPTIONS
ALL POSITIONS



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)

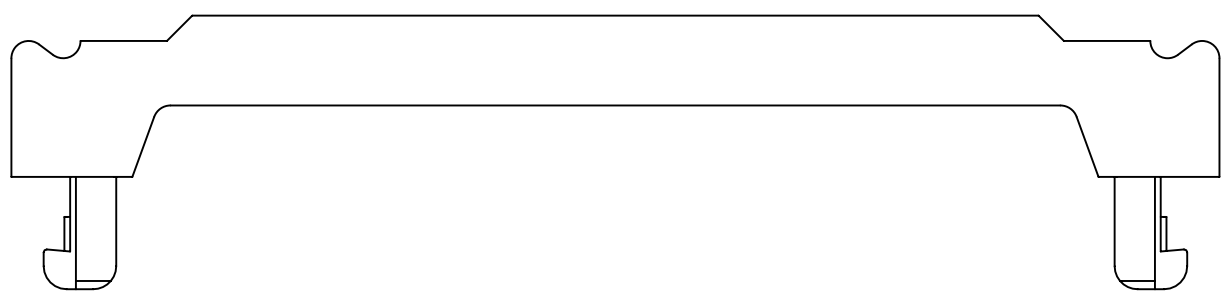
PLATING
BLANK = 0.76 μ m
[30 μ in] GOLD
PACKAGING
0 = TRAY

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			
			ANGLES $\pm$ 1°			
		CAGE NUMBER		SIZE	DRAWING NO.	REV.
		D		78-5100-2358-9	F	
		MODEL		DET	YES	NO
				SHT	2	OF 3

8 7 6 5 4 3 2 1

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
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

DRFT	DATE	MFG	DATE
L. SCHMIDT	JUL 23, 2010		
CHKD	DATE	APPR	DATE
		S. FELDMAN	JUL 30, 2010

DIVISION	DIVISION CODE

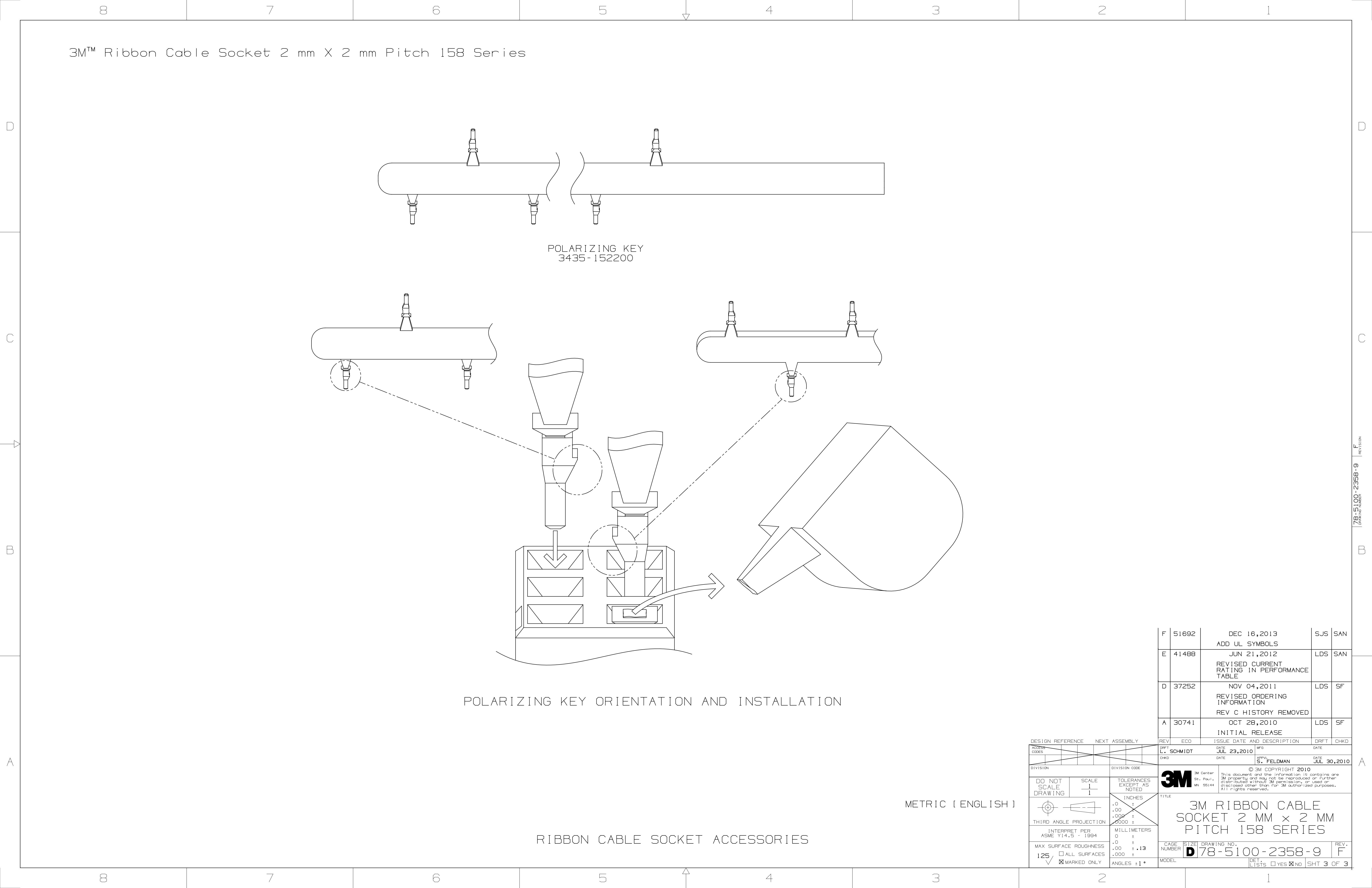
DO NOT SCALE DRAWING	SCALE 1/1	TOLERANCES EXCEPT AS NOTED
THIRD ANGLE PROJECTION	INCHES	MILLIMETERS
INTERPRET PER ASME Y14.5 - 1994	0 ±	0 ±
MAX SURFACE ROUGHNESS 125/	0.00 ±	0.00 ± .13
ALL SURFACES MARKED ONLY	0.000 ±	0.000 ±
ANGLES ±1°		

TITLE	CAGE NUMBER	SIZE	DRAWING NO.	REV.
3M RIBBON CABLE SOCKET 2 MM x 2 MM PITCH 158 SERIES	D	78-5100-2358-9	F	

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St. Paul,
MN 55144
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DET LISTS YES NO SHT 3 OF 3

8 7 6 5 4 3 2 1



8 7 6 5 4 3 2 1

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

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A	30741	OCT 28, 2010 INITIAL RELEASE	LDS	SF

DESIGN CODES	DIVISION	DIVISION CODE	DO NOT SCALE DRAWING	SCALE 1/1	TOLERANCES EXCEPT AS NOTED	INTERPRET PER ASME Y14.5 - 1994	MAX SURFACE ROUGHNESS 125/	ALL SURFACES	MARKED ONLY	ANGLES ±1°

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
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E	41488	JUN 21, 2012 REVISED CURRENT RATING IN PERFORMANCE TABLE	LDS	SAN
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REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
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

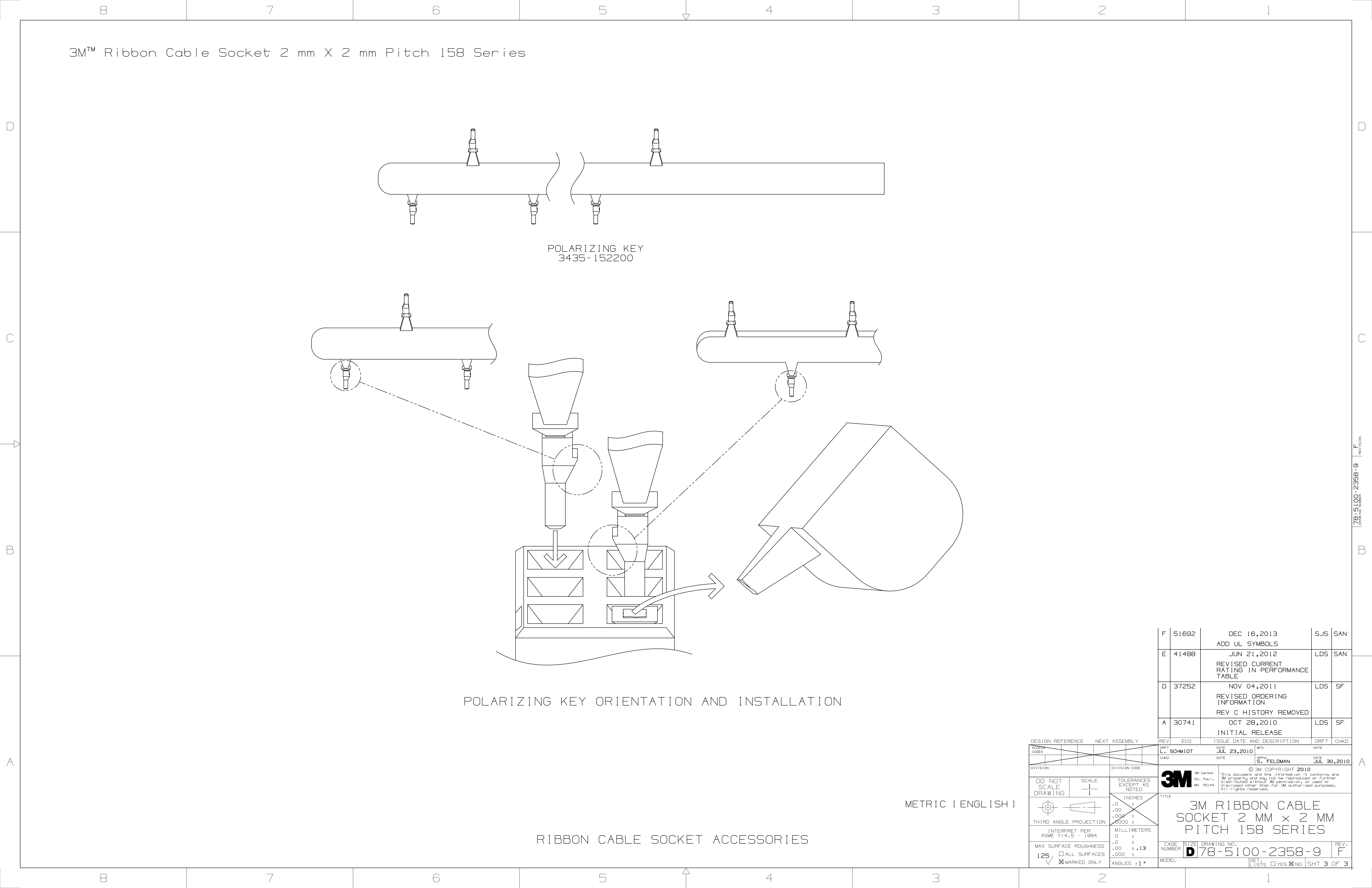
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
F	51692	DEC 16, 2013 ADD UL SYMBOLS	SJS	SAN
E	41488	JUN 21, 2012 REVISED CURRENT RATING IN PERFORMANCE TABLE	LDS	SAN
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E	41488	JUN 21, 2012 REVISED CURRENT RATING IN PERFORMANCE TABLE	LDS	SAN
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REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
F	51692	DEC 16, 2013 ADD UL SYMBOLS	SJS	SAN



8 7 6 5 4 3 2 1

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

DO NOT SCALE DRAWING

SCALE 1 1

TOLERANCES EXCEPT AS NOTED

INCHES

MILLIMETERS

INTERPRET PER ASME Y14.5 - 1994

MAX SURFACE ROUGHNESS 125

ALL SURFACES MARKED ONLY

ANGLES ±1°

3M

3M Center St. Paul, MN 55144

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TITLE 3M RIBBON CABLE SOCKET 2 MM x 2 MM PITCH 158 SERIES

CAGE NUMBER D78-5100-2358-9

SIZE

DRAWING NO.

REV. F

MODEL

DET. LISTS

YES NO

SHT 3 OF 3

8 7 6 5 4 3 2 1

A B C D

F
78-5100-2358-9
DRAWING NUMBER
REVISION

8 7 6 5 4 3 2 1

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]

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
F	51692	DEC 16, 2013 ADD UL SYMBOLS	SJS	SAN
E	41488	JUN 21, 2012 REVISED CURRENT RATING IN PERFORMANCE TABLE	LDS	SAN
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A	30741	OCT 28, 2010 INITIAL RELEASE	LDS	SF

DESIGN REFERENCE	NEXT ASSEMBLY
3435-152200	

DIVISION	DIVISION CODE
DO NOT SCALE DRAWING	SCALE 1/1

TOLERANCES EXCEPT AS NOTED
INCHES 0 0.00 0.002 0.000 ±
MILLIMETERS 0 0 0.00 ± 0.000 ±

INTERPRET PER ASME Y14.5 - 1994
THIRD ANGLE PROJECTION
MAX SURFACE ROUGHNESS 125 ALL SURFACES MARKED ONLY
ANGLES ±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	YES	NO	SHT	OF
				3	3

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

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

DO NOT SCALE DRAWING

SCALE 1 1

TOLERANCES EXCEPT AS NOTED

INCHES

MILLIMETERS

INTERPRET PER ASME Y14.5 - 1994

MAX SURFACE ROUGHNESS 125

ALL SURFACES MARKED ONLY

ANGLES ±1°

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TITLE 3M RIBBON CABLE SOCKET 2 MM x 2 MM PITCH 158 SERIES

CAGE NUMBER D78-5100-2358-9

SIZE

DRAWING NO.

REV. F

MODEL

DET. LISTS

YES NO

SHT 3 OF 3

8 7 6 5 4 3 2 1

A B C D

F
78-5100-2358-9
DRAWING NUMBER
REVISION