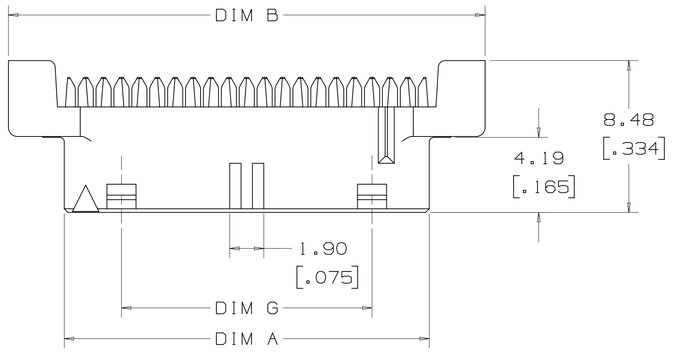
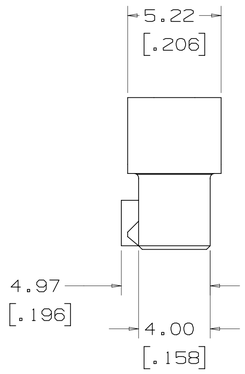
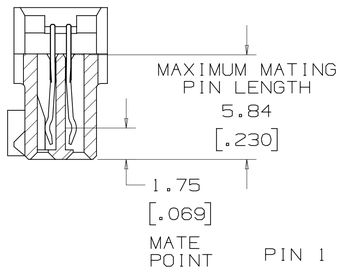
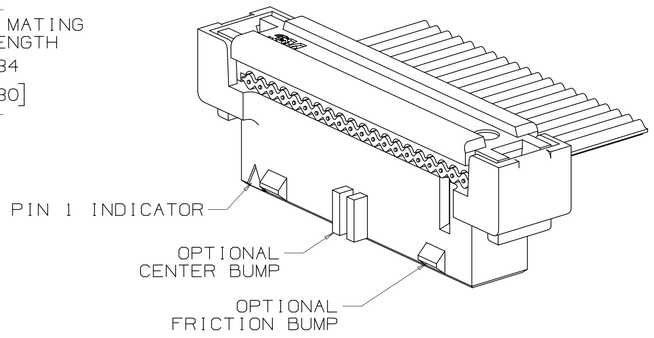
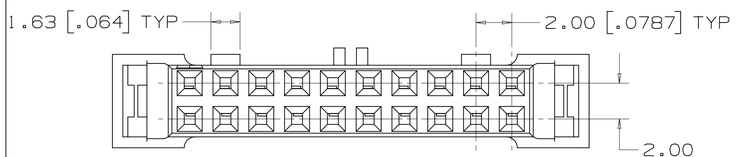
3M™ Ribbon Cable Socket 2 mm X 2 mm Pitch 158 Series

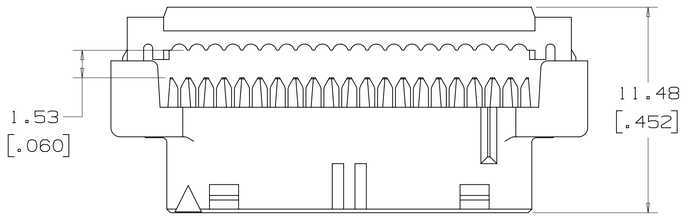




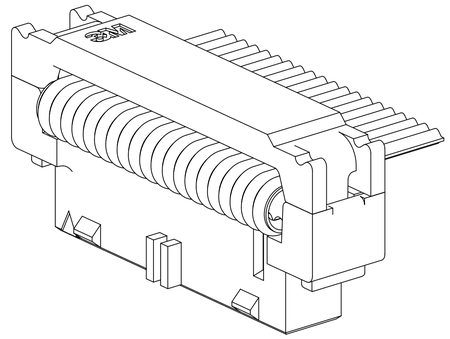


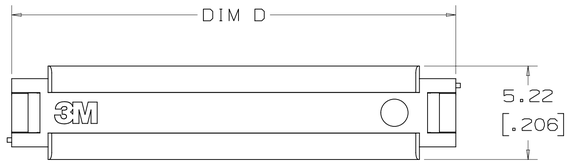


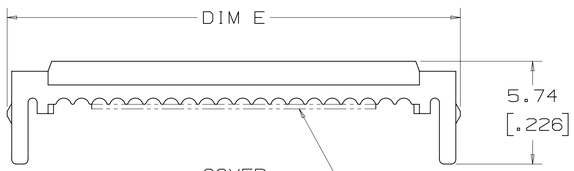


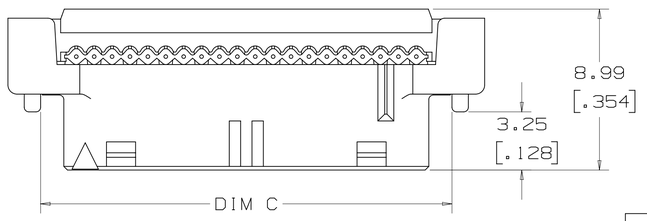


PREASSEMBLED HEIGHT WITH COVER

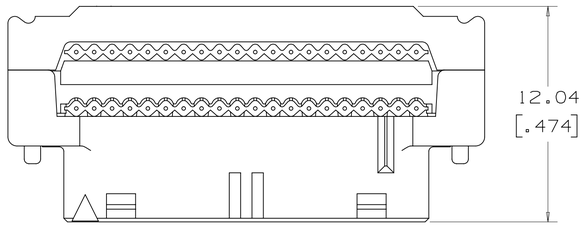








ASSEMBLED HEIGHT WITH COVER



STRAIN RELIEF

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:	>1X10⁹ OHMS AT 500 VDC
WITHSTANDING VOLTAGE:	500 VACrms AT SEA LEVEL
TEMPERATURE RATING:	-55°C TO +105°C

METRIC [ENGLISH]

cULus

UL FILE NO: E68080

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.

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

DESIGN REFERENCE | NEXT ASSEMBLY | ADDED CODES | DIVISION | DIVISION CODE

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

DO NOT SCALE DRAWING | SCALE 6 1 | THIRD ANGLE PROJECTION | INTERPRET PER ASME Y14.5 - 1994 | MAX SURFACE ROUGHNESS 125 ☐ ALL SURFACES ☒ MARKED ONLY

TOLERANCES EXCEPT AS NOTED
INCHES .0 ± .00 ± .000 ± .0000 ±
MILLIMETERS 0 ± .0 ± .00 ± .13 .000 ± .13
ANGLES ±1°

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

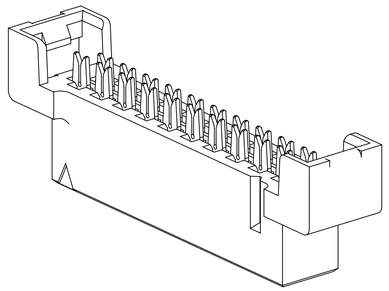
CAGE NUMBER | SIZE D | DRAWING NO. 78-5100-2358-9 | REV. F

MODEL | DET. LISTS ☐ YES ☒ NO | SHT 1 OF 3

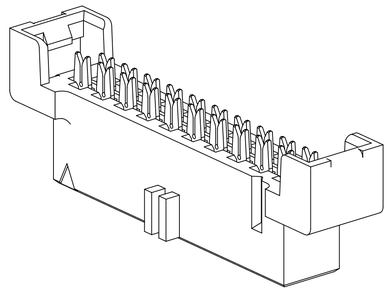
78-5100-2358-9 (DATA NUMBER) F (REVISION)

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

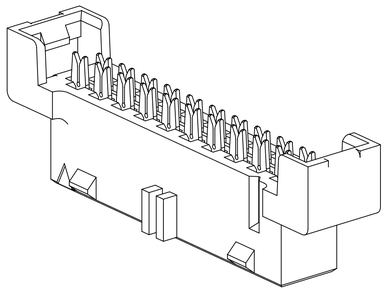
NUMBER OF POSITIONS	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G
6	6.39 [.252]	12.64 [.497]	8.98 [.354]	10.81 [.426]	11.32 [.446]	12.64 [.497]	N/A
8	8.39 [.330]	14.64 [.576]	10.98 [.432]	12.81 [.504]	13.32 [.524]	14.64 [.576]	N/A
10	10.39 [.409]	16.64 [.655]	12.98 [.511]	14.81 [.583]	15.32 [.603]	16.64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



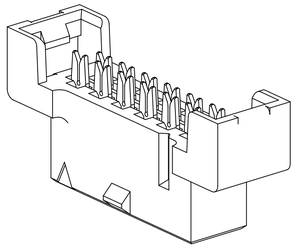
SOCKET WITHOUT OPTIONS
ALL POSITIONS



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)
- PACKAGING: 0 = TRAY
- PLATING: BLANK = 0.76 µm [30 µin] GOLD

TIER 2 - BETTER

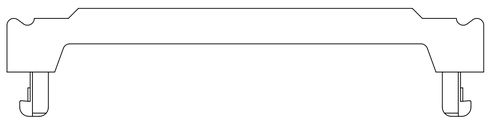
1582XX-0X20XX

- 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)
- PACKAGING: 2 = SWORDS
- PLATING: BLANK = 0.76 µm [30 µin] GOLD; 15 = 0.38 µm [15 µin] GOLD

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)
- PACKAGING: 1 = BULK PACK
- PLATING: 15 = 0.38 µm [15 µin] GOLD



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

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

DESIGN REFERENCE | NEXT ASSEMBLY | ACCESS CODES | DIVISION | DIVISION CODE

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

DO NOT SCALE DRAWING | SCALE 6/1 | THIRD ANGLE PROJECTION | INTERPRET PER ASME Y14.5 - 1994 | MAX SURFACE ROUGHNESS 125 ☐ ALL SURFACES ☒ MARKED ONLY

TOLERANCES EXCEPT AS NOTED
INCHES .0 ± .00 ± .000 ± .0000 ±
MILLIMETERS 0 ± .0 ± .00 ± .13 .000 ± ANGLES ±1°

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

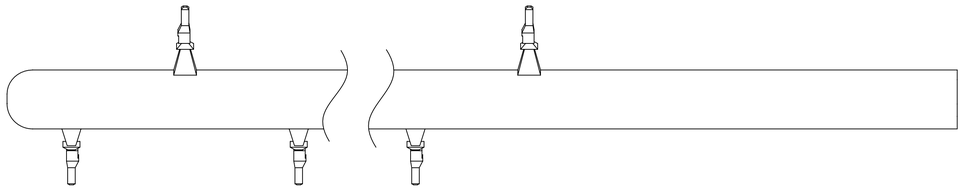
METRIC [ENGLISH]

CAGE NUMBER | SIZE D | DRAWING NO. 78-5100-2358-9 | REV. F

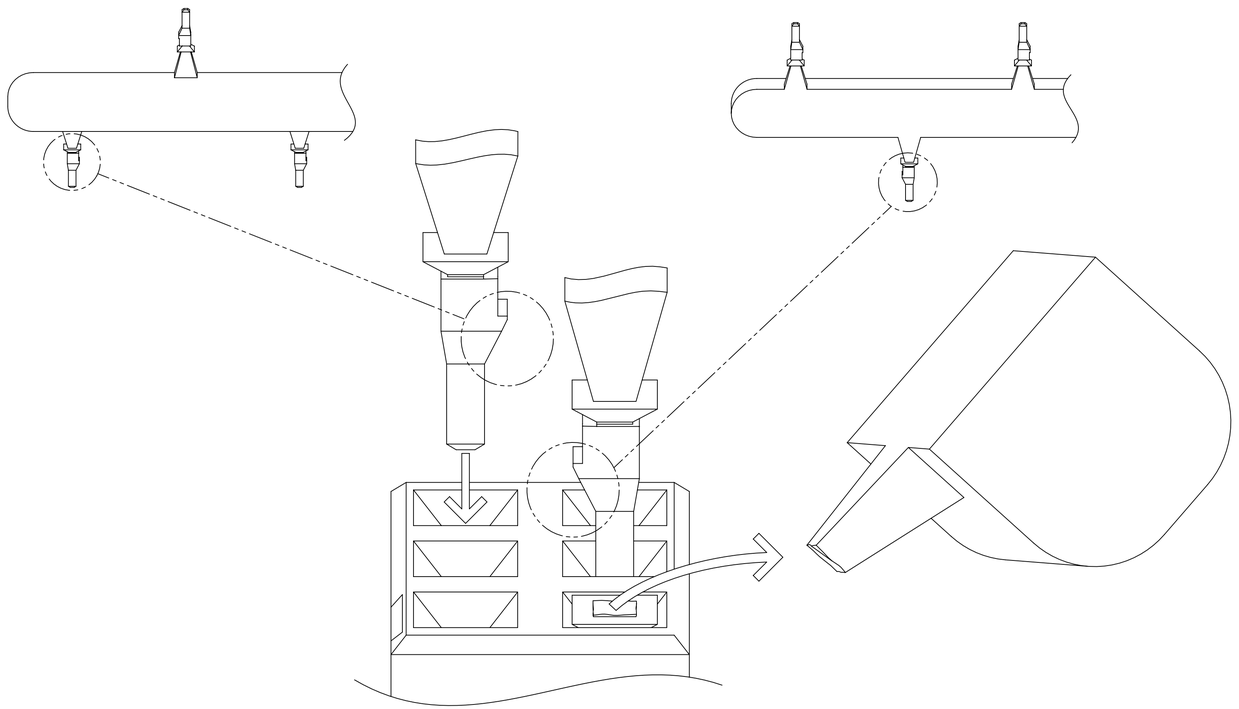
MODEL | DET LISTS ☐ YES ☒ NO | SHT 2 OF 3

78-5100-2358-9 F
DRAWING NUMBER REVISION

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

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

DESIGN REFERENCE | NEXT ASSEMBLY
ACCESS CODES
DIVISION | DIVISION CODE

DRFT: L. SCHMIDT — DATE: JUL 23,2010
CHKD — DATE
MFG — DATE
APPVL: S. FELDMAN — DATE: JUL 30,2010

DO NOT SCALE DRAWING | SCALE 1/1

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 1994

MAX SURFACE ROUGHNESS 125 ☐ ALL SURFACES ☒ MARKED ONLY

TOLERANCES EXCEPT AS NOTED

INCHES	
.0	±
.00	±
.000	±
.0000	±

MILLIMETERS	
0	±
.0	±
.00	± .13
.000	±

ANGLES ±1°

METRIC [ENGLISH]

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

CAGE NUMBER | SIZE D | DRAWING NO. 78-5100-2358-9 | REV. F

MODEL | DET. LISTS ☐ YES ☒ NO | SHT 3 OF 3

78-5100-2358-9 DRAWING NUMBER | F REVISION