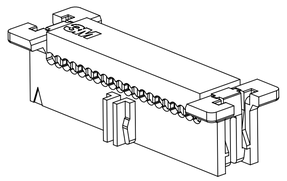
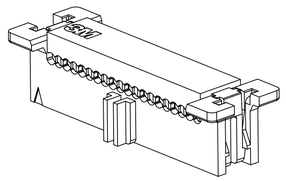
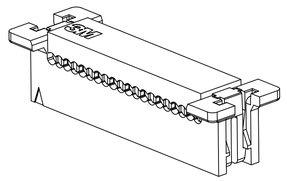
3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY, 1.27mm (0.050") PITCH, 451 SERIES



CENTER POLARIZATION AND FRICTION LATCH

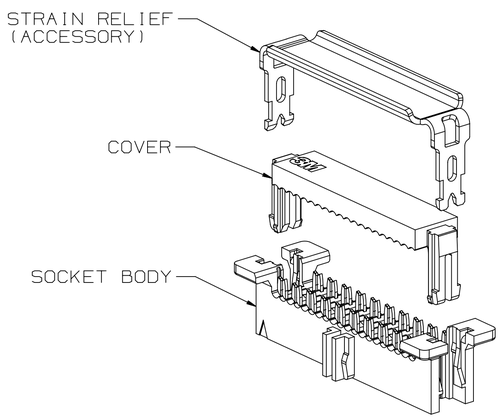


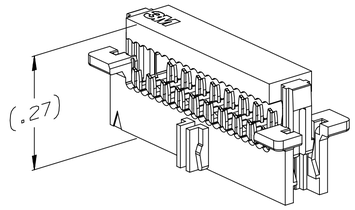
CENTER POLARIZATION AND NO FRICTION LATCH



NO CENTER POLARIZATION AND NO FRICTION LATCH

PERFORMANCE:	
CURRENT RATING:	1.0A, UL 04P-50P, NOT FOR CURRENT INTERRUPTION 1.0A, CUL 04P-30P, NOT FOR CURRENT INTERRUPTION 0.75A, CUL 32P-50P, NOT FOR CURRENT INTERRUPTION 0.75A, ALL LINES ENERGIZED, 30° C TEMP RISE PER EIA 364-70 1.50A, 6 LINES ENERGIZED, 30° C TEMP RISE PER EIA 364-70
UL & CUL VOLTAGE RATING:	$125V_{AC}$
INSULATION RESISTANCE:	> 1 x 10^9 Ohms AT 500 VDC
WITHSTANDING VOLTAGE:	$1250V_{DC}$ AT SEA LEVEL
OPERATING TEMPERATURE:	-65° C TO +125° C
UL & CUL OPERATING TERMERATURE:	+130° C





PRE-POSITIONED COVER

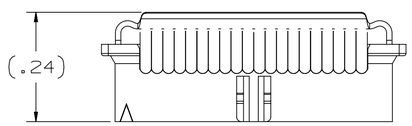
ORDERING INFORMATION
FOR RAPID INSTALLATION ON
RIBBON CABLE APPLICATIONS

451 XX - 0 X 0 0 XX

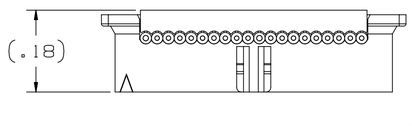
- 451 — SERIES
- XX — NUMBER OF POSITIONS SEE TABLE 1
- X — CENTER POLARIZATION / FRICTION LATCH
  - 0 = NO CENTER POLARIZATION (CP) (ALL POS.)
  - 1 = CP NO FRICTION LATCH (08 AND HIGHER POS.)
  - 2 = CP WITH FRICTION LATCH (08 AND HIGHER POS.)
- 0 — PACKAGING
  - 0 = STANDARD (TRAYS)
- 0 — OPTIONAL FEATURES
  - 0 = NONE SPECIFIED
- XX — PLATING
  - 00 = Au FLASH
  - 30 = 30μ" GOLD

NOTE:
FRICTION LATCH (OPTION 2) IS NOT SUITABLE FOR HEADER WITH LATCH EJECT OPTION

NOTES	
1.	MATERIAL: BODY: PBT, UL94V-0 COVER: PBT, UL94V-0 STRAIN RELIEF: STAINLESS STEEL CONTACTS: BeCu ALLOY.
2.	PLATING: 50-150μ" NICKEL UNDERPLATE 30 = 30μ" MIN. GOLD ON WIPING AREA 00 = FLASH GOLD ON WIPING AREA.
3.	RIBBON CABLE COMPATIBILITY: GENERAL: 0.025" PITCH PVC, 30 AWG, SOLID OR 7 STRAND. RECOMMENDED: 3M 3447 AND 3754 SERIES CABLE.
4.	MATING COMPATIBILITY: 3M 1.27mm (0.050"), SERIES 452 HEADER WITH LATCH/EJECT OPTION. TECH SHEETS TS-2437 AND TS-2396
5.	REGULATORY INFORMATION: VISIT 3M.com/regs
6.	IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
7.	REFERENCE RELATED DOCUMENTS: PRODUCT SPECIFICATION: 3M DOC. ID# 78-5102-0091-4.
8.	TOOLING AND INSTALLATION INSTRUCTIONS: 3M DOC. ID# 78-9101-8937-8.
9.	OTHER PIN COUNTS AVAILABLE UPON REQUEST. CONTACT 3M.
10	PACKAGING: SOCKET: TRAY COVER: BAG



WITH OPTIONAL STRAIN RELIEF



NO STRAIN RELIEF

TERMINATED CONNECTOR

ACCESSORY: STRAIN RELIEF
3448-451XX
NUMBER OF POSITIONS

APPLICATION TOOLING:
ALUMINUM: 3443-82-XX
NUMBER OF POSITIONS

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
http://www.3M.com/interconnect

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UL FILE NO: E68080

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
J	105041	MAY 26,2022 REVISE PERFORMANCE SECTION	JNC	SAN
H	100200	OCT 19,2021 ADD POS 26, 40, 50	JNC	SAN
G	92270	AUG 19,2020 ADD NOTES AND VIEWS	JNC	SAN
F	56988	SEP 24,2014 REVISE PERFORMANCE CHART	JNC	SN
E	54514	MAY 07,2014 ADD UL LOGO	SJS	SAN
D	51884	JAN 08,2014 ADD DESIGN REF, UPDATE TITLE, ADD TS REF	SJS	SAN
C	50290	OCT 08,2013 REVISE NOTES 1, 3, 8 & OPERATING TEMP.	JNC	SN
B	48635	JUL 12,2013 MATCH TEXT FONTS & ADD NOTE 10	JNC	SN
A	46797	MAR 25,2013 PRODUCTION RELEASE	JNC	SAN

78-5100-2396-9
78-5100-2437-1
DESIGN REFERENCE — NEXT ASSEMBLY

ACCESS CODES

DRFT	DATE	MFG	DATE
ARM	FEB 11,2011		
CHKD	DATE	APPV. SAN	DATE FEB 11,2011

DIVISION

DIVISION CODE
EMSD

DO NOT SCALE DRAWING

SCALE 6/1

TOLERANCES EXCEPT AS NOTED

INCHES
.0 ±.1
.00 ±.02
.000 ±.010
.0000 ±.005

MILLIMETERS
0 ±
.0 ±
.00 ±
.000 ±

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2018

MAX SURFACE ROUGHNESS
☐ ALL SURFACES
☐ MARKED ONLY

ANGLES ±

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St. Paul, MN 55144
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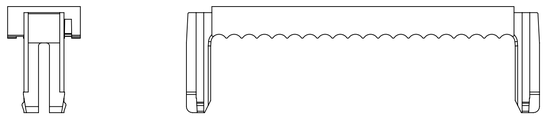
TITLE
RIBBON CABLE WMT SOCKET, .05 X .05 PITCH, 451 SERIES

CAGE NUMBER	SIZE	DRAWING NO.	REV.
	D	78-5100-2436-3	J

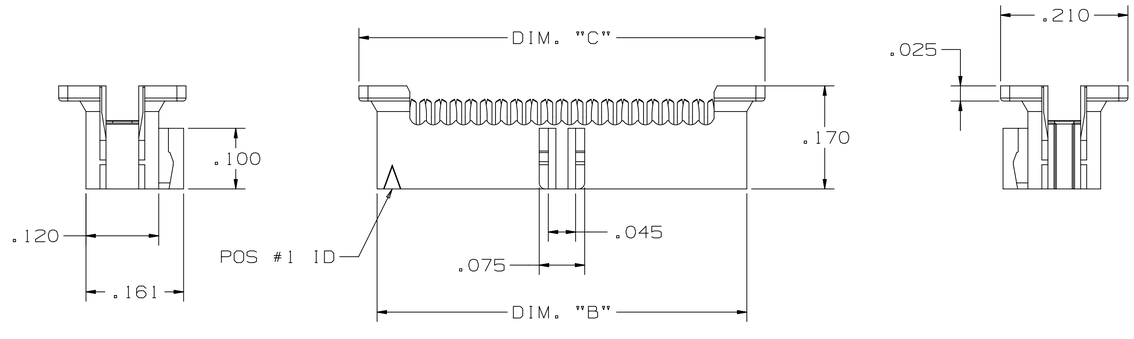
MODEL 451
DET. LISTS ☐ YES ☒ NO
SHT 1 OF 2

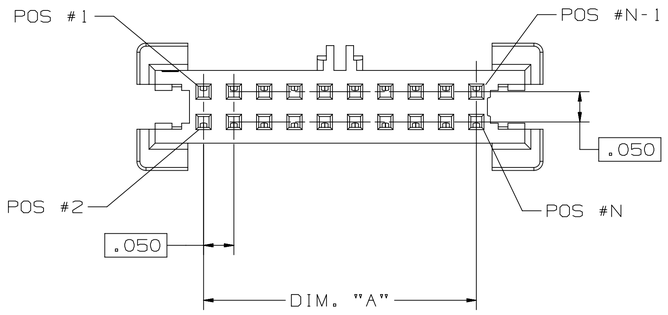
78-5100-2436-3 J REVISION

3M™ RIBBON CABLE WIREMOUNT SOCKET ASSEMBLY, 1.27mm (0.050") PITCH, 451 SERIES



COVER





Regulatory: For regulatory information about this product, visit 3M.com/regs or contact your 3M representative.

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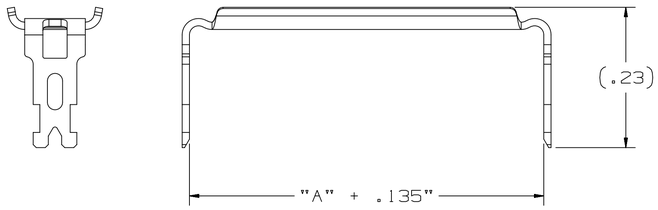
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3M Company
Electronics Materials Solutions Division
13011 McCallen Pass, Bldg. C
Austin, TX 78753-5380
1-800-225-5373
www.3M.com/interconnect

TABLE 1

No. Positions	Dim "A"	Dim "B"	Dim "C"
4	.050	.210	.270
6	.100	.260	.320
8	.150	.310	.370
10	.200	.360	.420
12	.250	.410	.470
14	.300	.460	.520
16	.350	.510	.570
20	.450	.610	.670
26	.600	.760	.820
30	.700	.860	.920
40	.950	1.110	1.170
50	1.200	1.360	1.420



ACCESSORY - STRAIN RELIEF
PART NUMBER 3448-451XX

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
J	105041	MAY 26,2022 REVISE PERFORMANCE SECTION	JNC	SAN
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78-5100-2396-9
78-5100-2437-1
DESIGN REFERENCE NEXT ASSEMBLY

ACCESS CODES

DRFT ARM DATE FEB 11,2011 MFG DATE
CHKD DATE APPVL SAN DATE FEB 11,2011

DIVISION

DO NOT SCALE DRAWING | SCALE 4/1

DIVISION CODE EMSD

TOLERANCES EXCEPT AS NOTED

INCHES
.0 ±.1
.00 ±.02
.000 ±.010
.0000 ±.005

MILLIMETERS
0 ±
.0 ±
.00 ±
.000 ±

ANGLES ±

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2018

MAX SURFACE ROUGHNESS
☐ ALL SURFACES
☐ MARKED ONLY

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3M Center St. Paul, MN 55144

TITLE
RIBBON CABLE WMT SOCKET, .05 X .05 PITCH, 451 SERIES

CAGE NUMBER | SIZE D | DRAWING NO. 78-5100-2436-3 | REV. J

MODEL 451 | DET. LISTS ☐ YES ☒ NO | SHT 2 OF 2

78-5100-2436-3 DRAWING NUMBER | REVISION