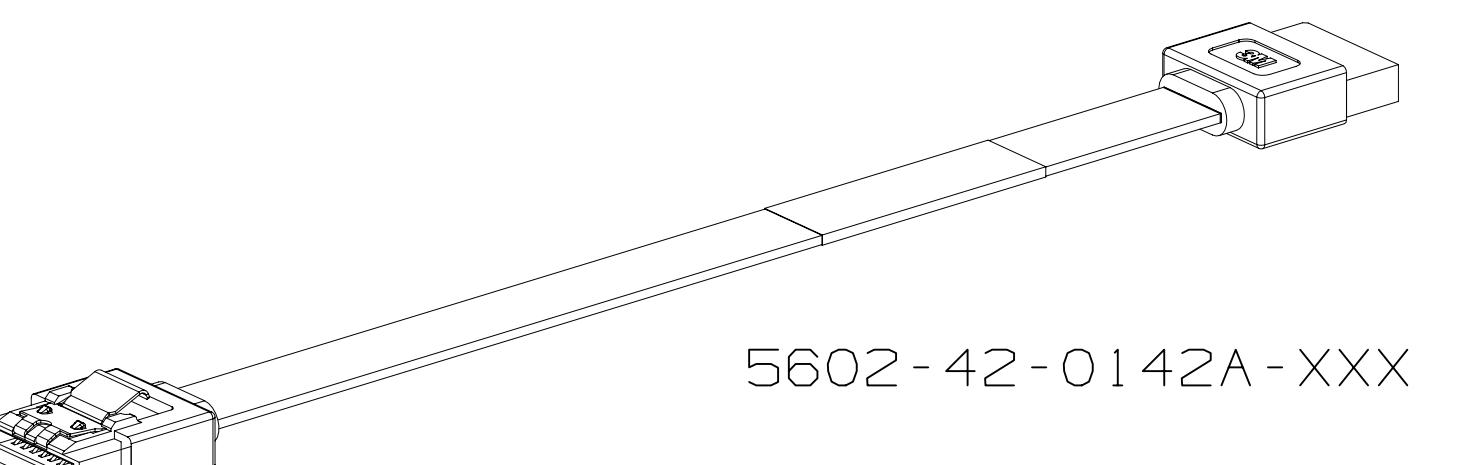
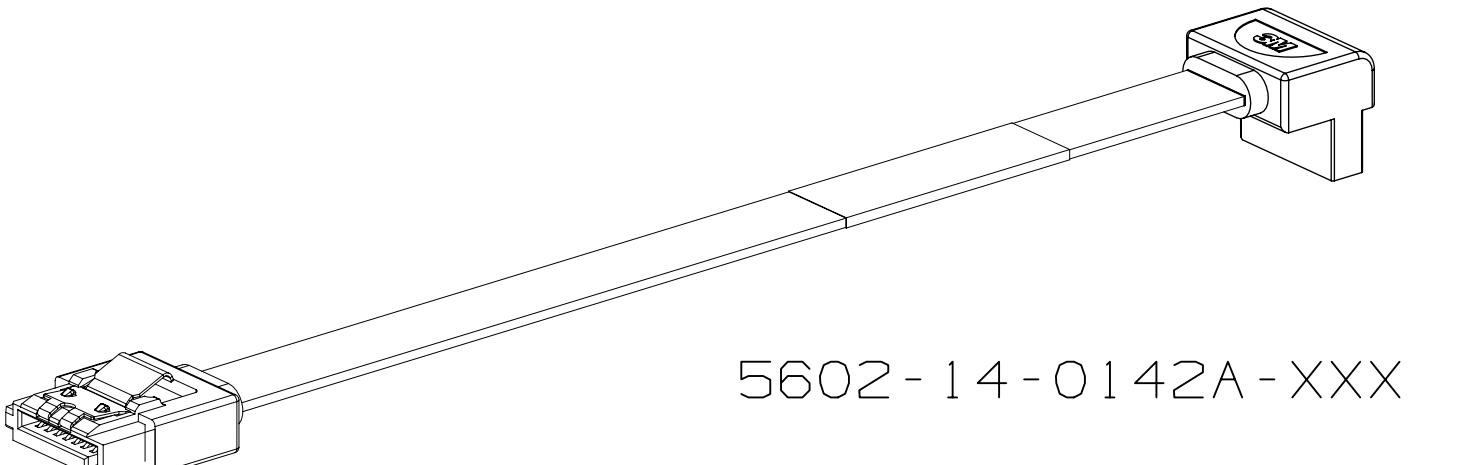
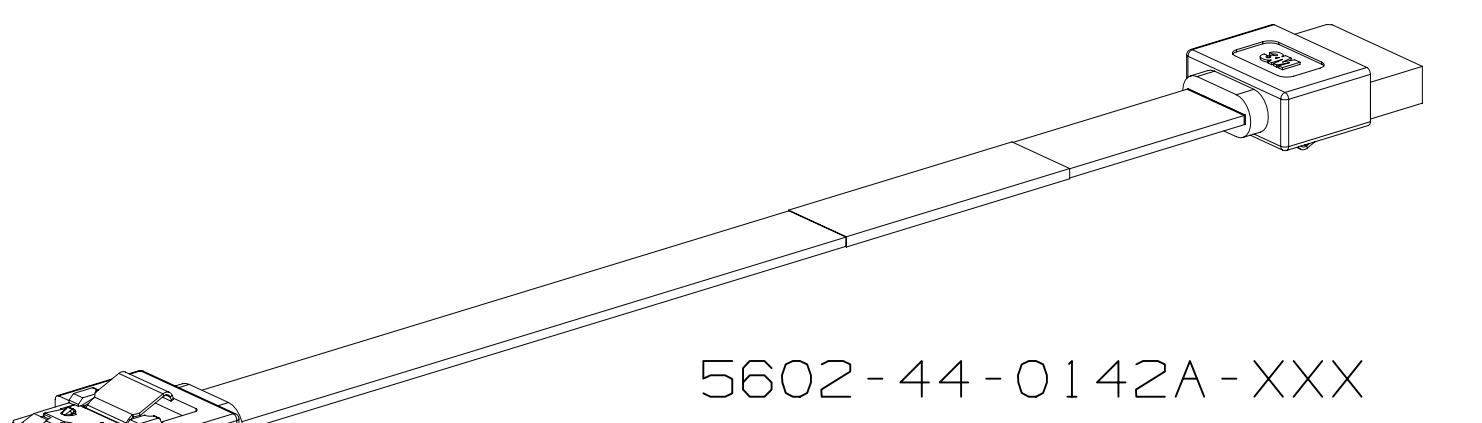
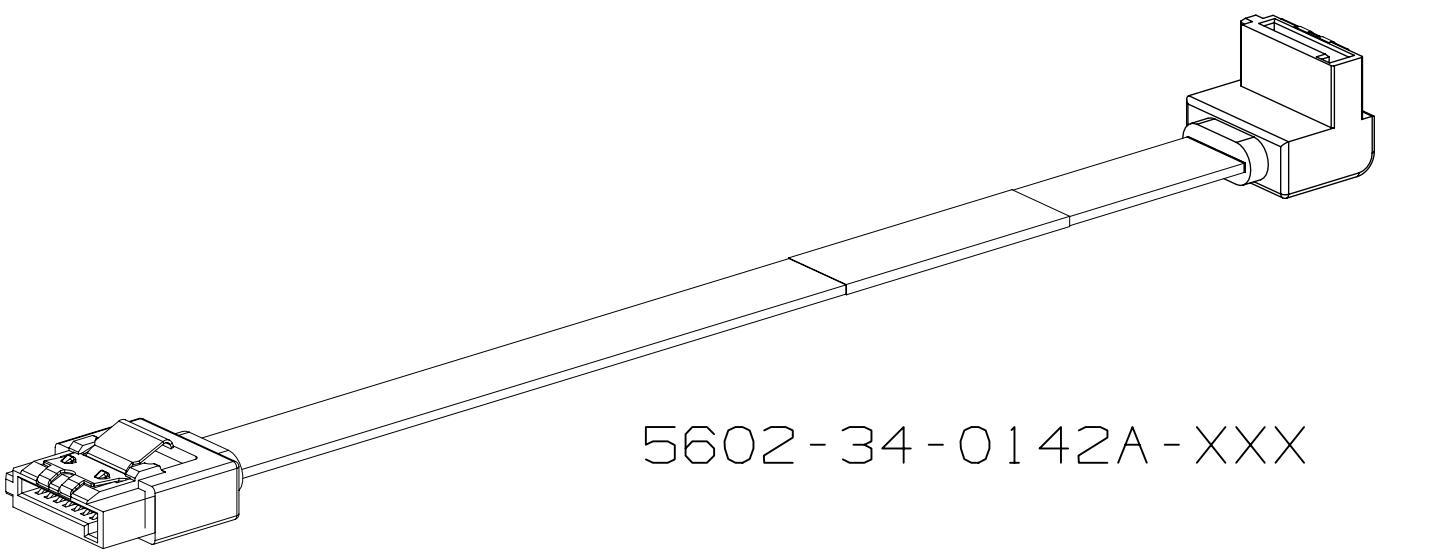
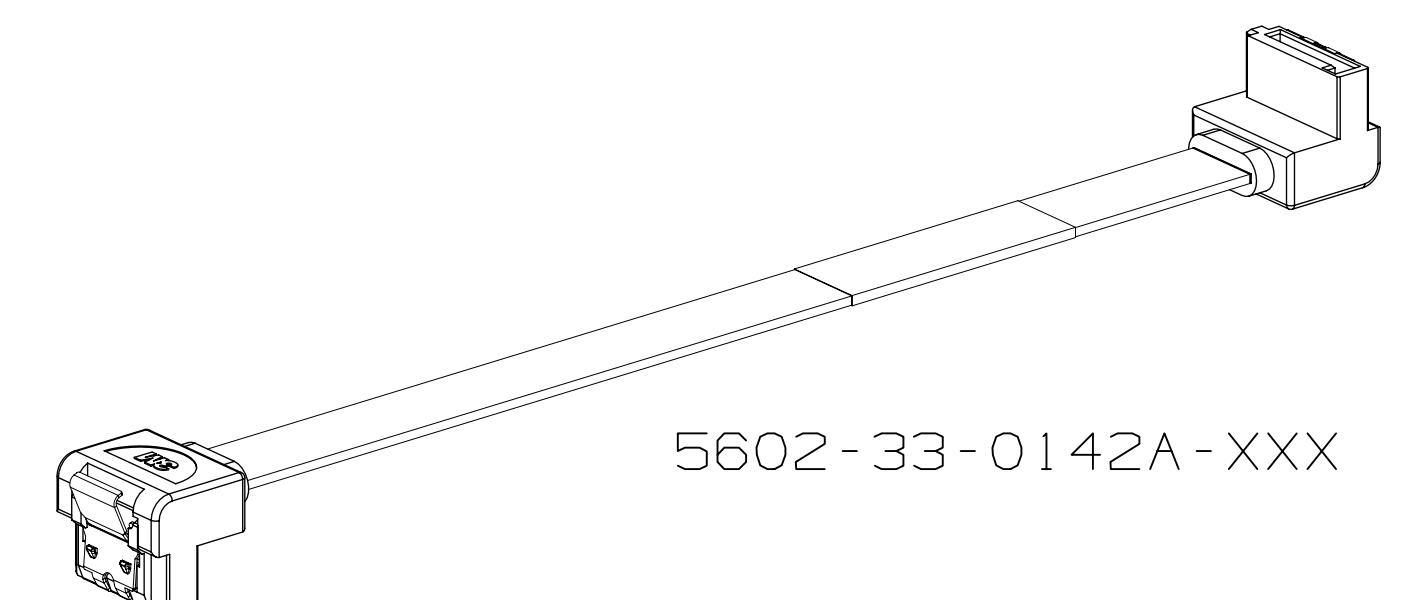
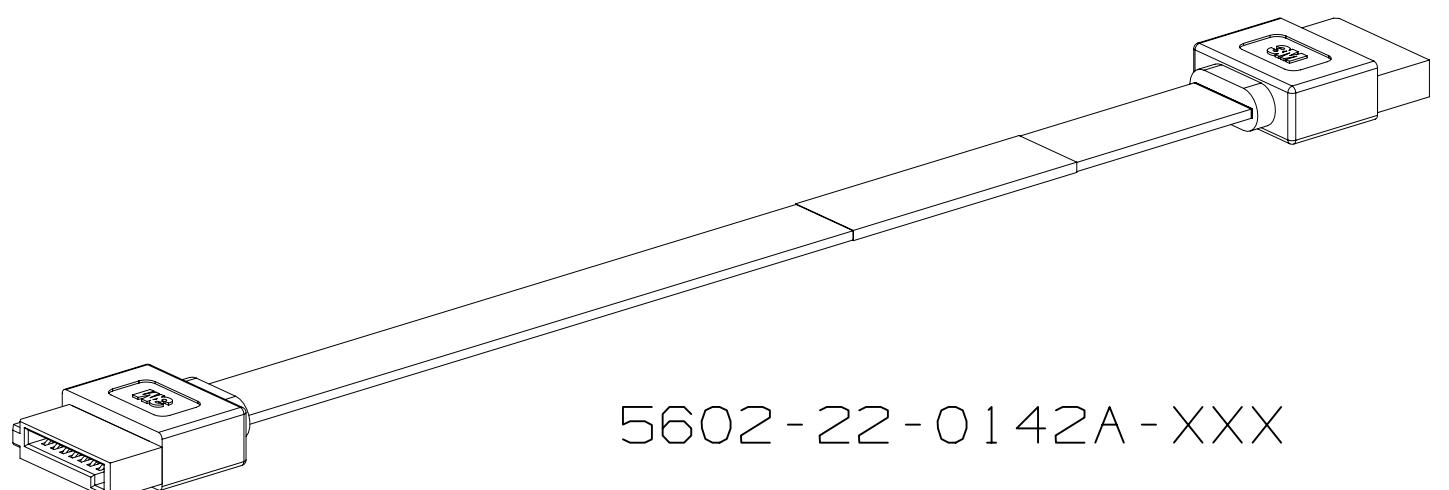
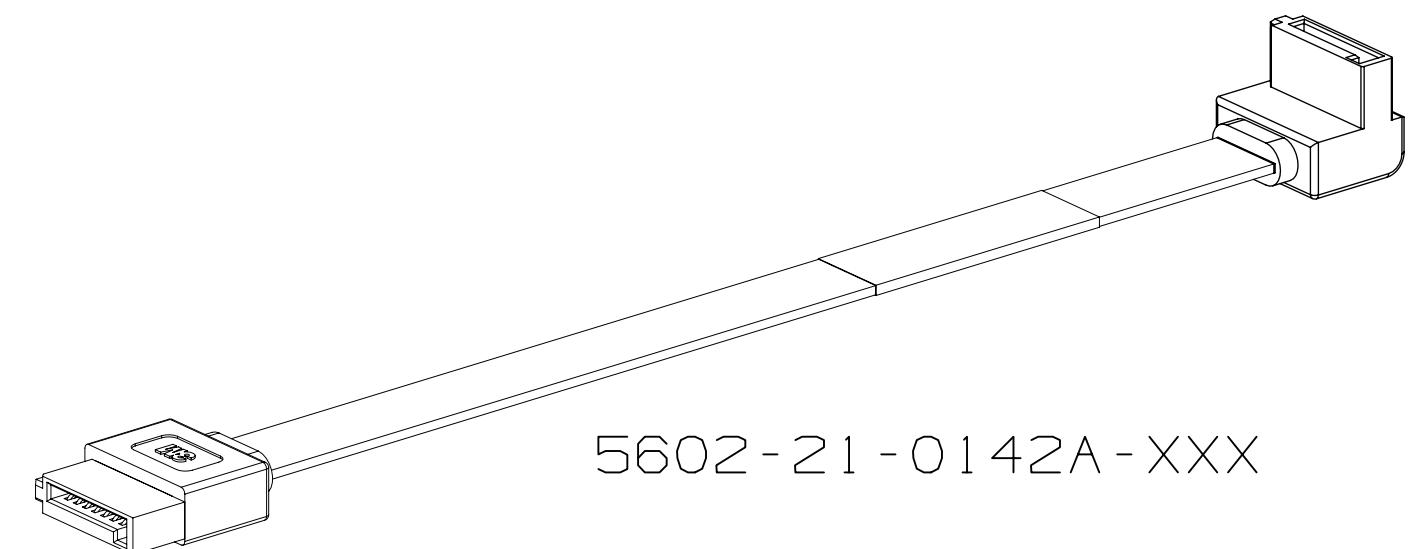
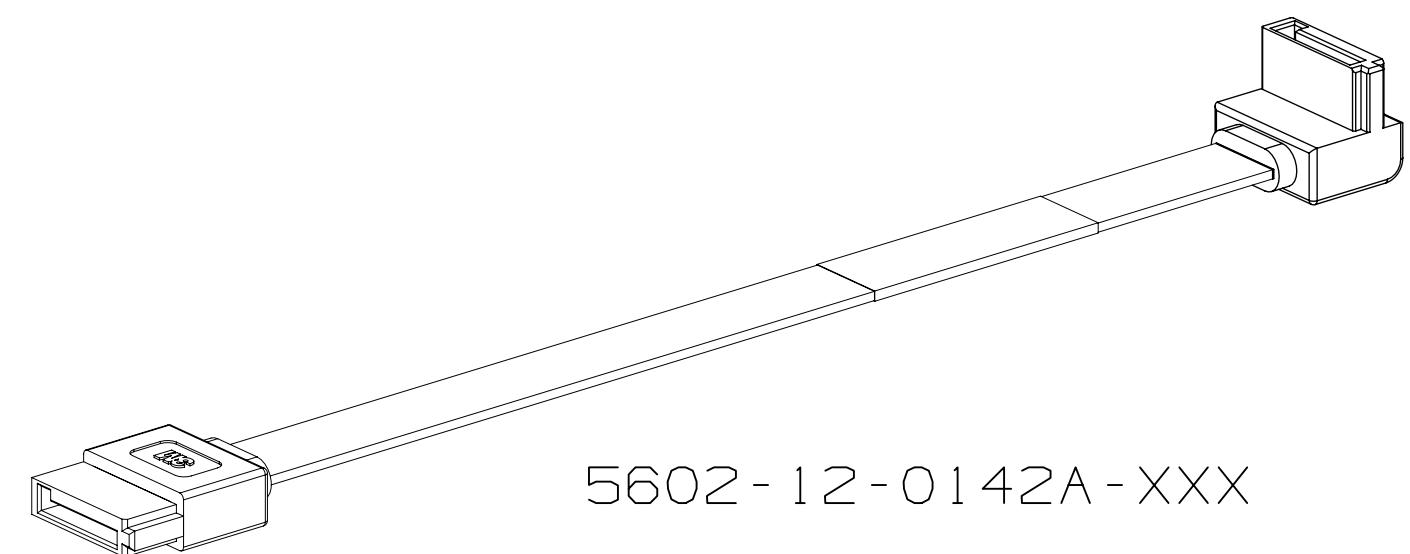
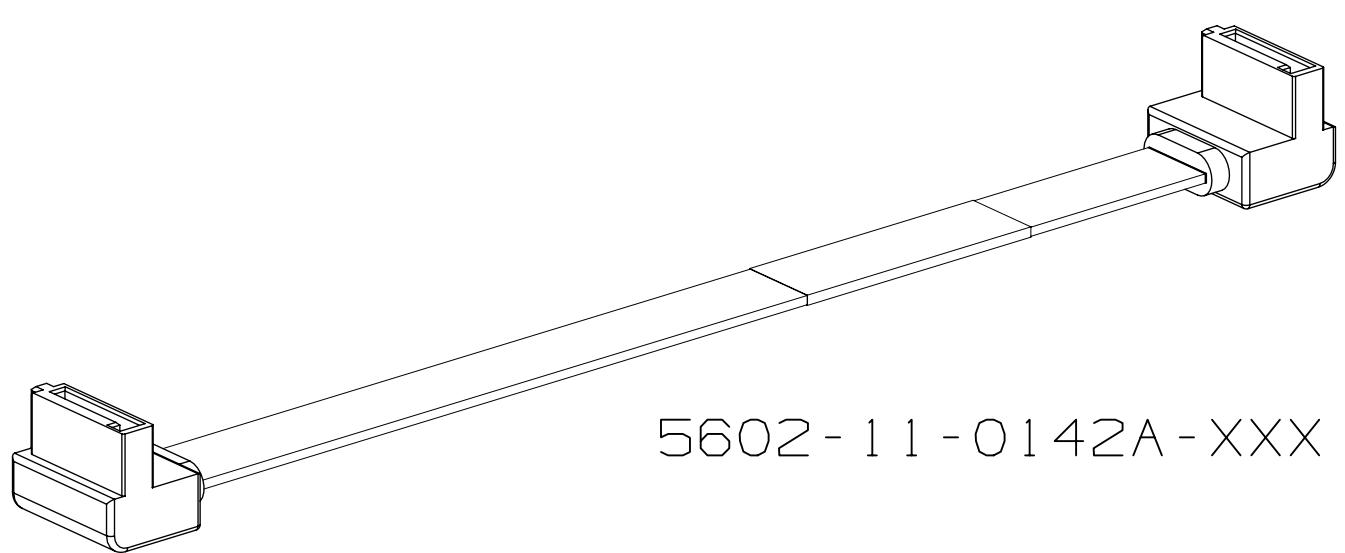
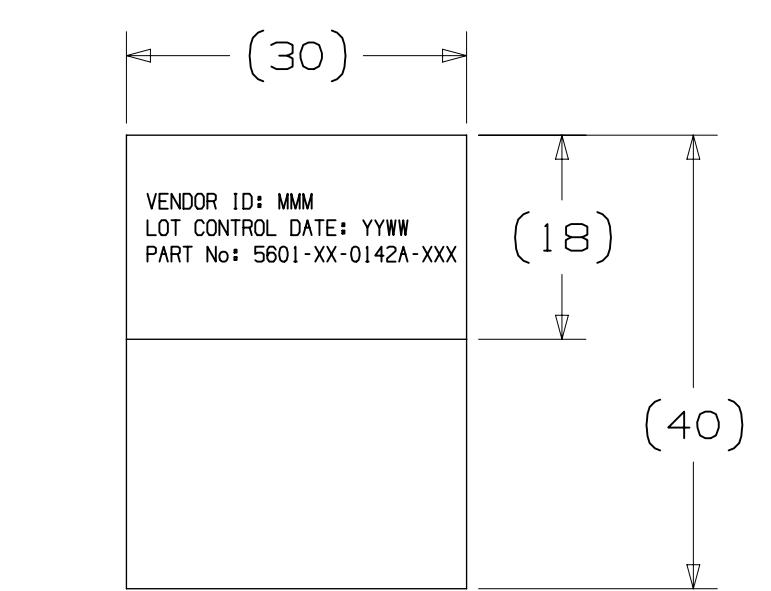


**3M™ HIGH ROUTABILITY INTERNAL SATA CABLE ASSEMBLY, 5602 SERIES**  
 7 PIN TWINAX CABLE ASSEMBLY, STRAIGHT AND RIGHT ANGLE, WITH AND WITHOUT LATCH



PIN OUT, TYPICAL

P1	TYPE	TYPE	P2
1	G	G	1
2	A+	A+	2
3	A-	A-	3
4	G	G	4
5	B-	B-	5
6	B+	B+	6
7	G	G	7



LABEL  
(TYPICAL DIMENSIONS)

- NOTES
- REGULATORY INFORMATION: VISIT 3M.com/regs
  - FOR CUSTOM CABLE LENGTH, CONTACT 3M SALES REP.
  - CABLE PART NUMBER: SL8803/04-10DN5-00.
  - PRODUCT SPECIFICATION: PS-0117.
  - PVC OVERMOLDING AND PE INNER MOLDING AT BOTH ENDS.
  - PRODUCT MEETS SATA 3.0 SIGNAL INTEGRITY SPECIFICATIONS.
  - LENGTH TOLERANCE:  
±5 MM FOR LENGTHS LESS THAN 0.5 M.  
±10 MM FOR LENGTHS 0.5 TO 1.0 M.
  - UNLESS OTHERWISE NOTED, REFERENCES TO INDUSTRY SPECIFICATIONS ARE INTENDED TO INDICATE SUBSTANTIAL COMPLIANCE TO THE MATERIAL ELEMENTS OF THE SPECIFICATION. SUCH REFERENCES SHOULD NOT BE CONSTRUED AS A GUARANTEE OF COMPLIANCE TO ALL REQUIREMENTS IN A GIVEN SPECIFICATION.
  - SEE TS-2591 FOR PVC JACKETED SATA 7 PIN TWINAX CABLE ASS'Y.
  - CABLE:  
\* RIBBON TWINAX, SL8803/04.  
\* UL: AWM 21008.  
\* VOLTAGE RATING: 150V.  
\* TEMPERATURE RATING: 80C°.  
\* SIGNAL WIRES:  
30 AWG SILVER PLATED COPPER.
  - SATA CONNECTORS:  
\* 7 PIN FEMALE, STRAIGHT OR RIGHT ANGLE.  
\* COLOR:  
BLACK, GLASS FILLED PBT.  
\* PLATING: 15μ" AU.

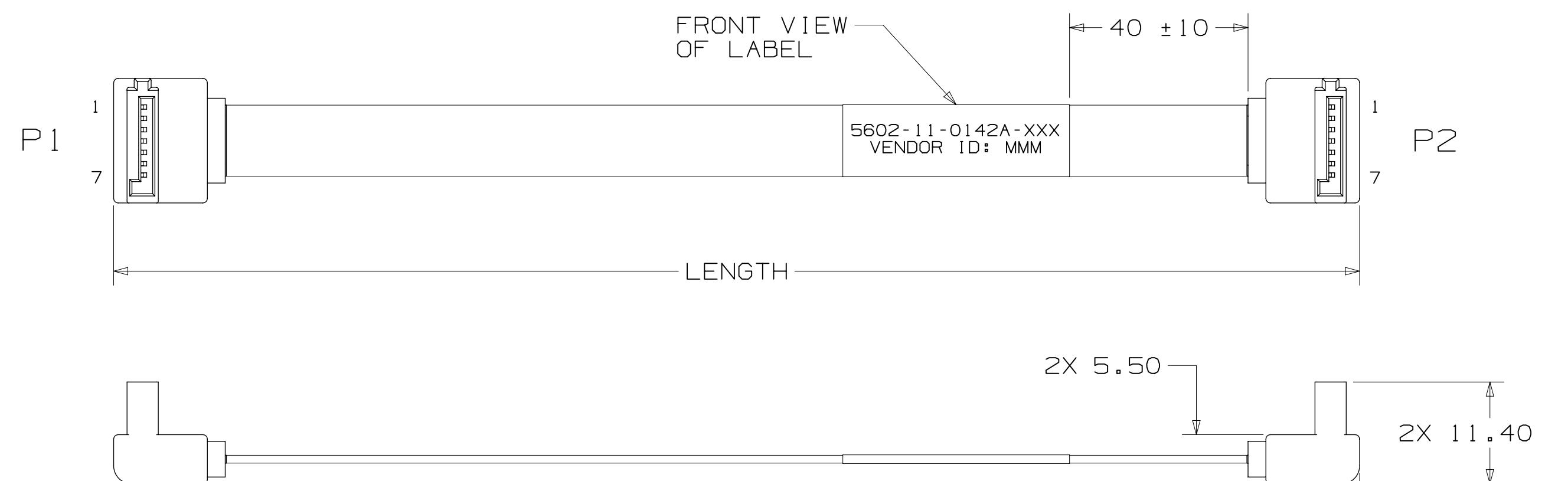
E	114747	MAY 13, 2024	JNC	MML
D	47119	APR 09, 2013	RV	RV
C	43801	DEC 31, 2012	RV	RV
B	42030	JUL 07, 2012	RV	RV
A	37492	SEP 05, 2011	RV	RV
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
R&O VITAPALLI	JUL 02, 2016	APPROVED	DATE	
R&O VITAPALLI	JUL 02, 2016	SAJUIT BANDHU	JUL 02, 2016	APPROVED
<b>3M</b> © 3M COPYRIGHT 2024				
This document and the information it contains are confidential and may be protected by copyright. It is intended for the sole use of the individual or company to whom it was distributed and may not be reproduced or disclosed other than for 3M authorized purposes.				
HIGH ROUTABILITY INTERNAL SATA CABLE ASSEMBLY				
CAGE NUMBER	SIZE	DRAWING NO.	REV.	
D	78-5100-4897-4	E		
DET. LISTS	YES	X NO	SHT 1	OF 7

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

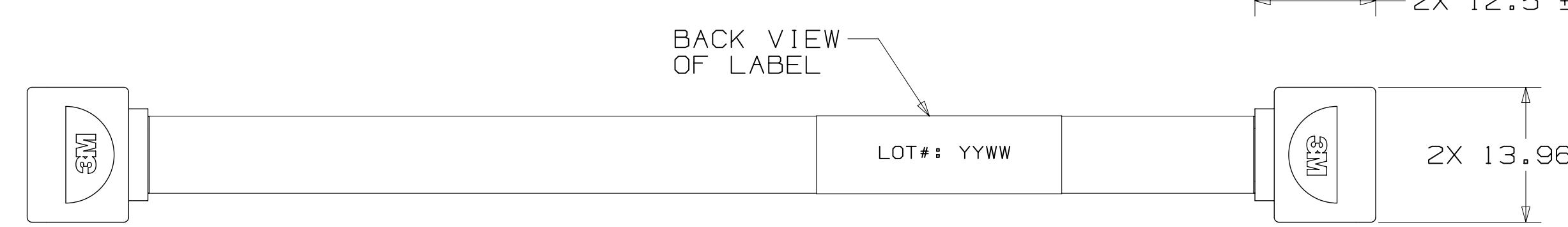
3M IS A TRADEMARK OF 3M COMPANY.  
FOR TECHNICAL, SALES OR ORDERING  
INFORMATION CALL 800-225-5373

3M™ HIGH ROUTABILITY INTERNAL SATA CABLE ASSEMBLY, 5602 SERIES  
7 PIN TWINAX CABLE ASSEMBLY, STRAIGHT AND RIGHT ANGLE, WITH AND WITHOUT LATCH

NOTES  
1. REFER TO SHEET 1 FOR NOTES.

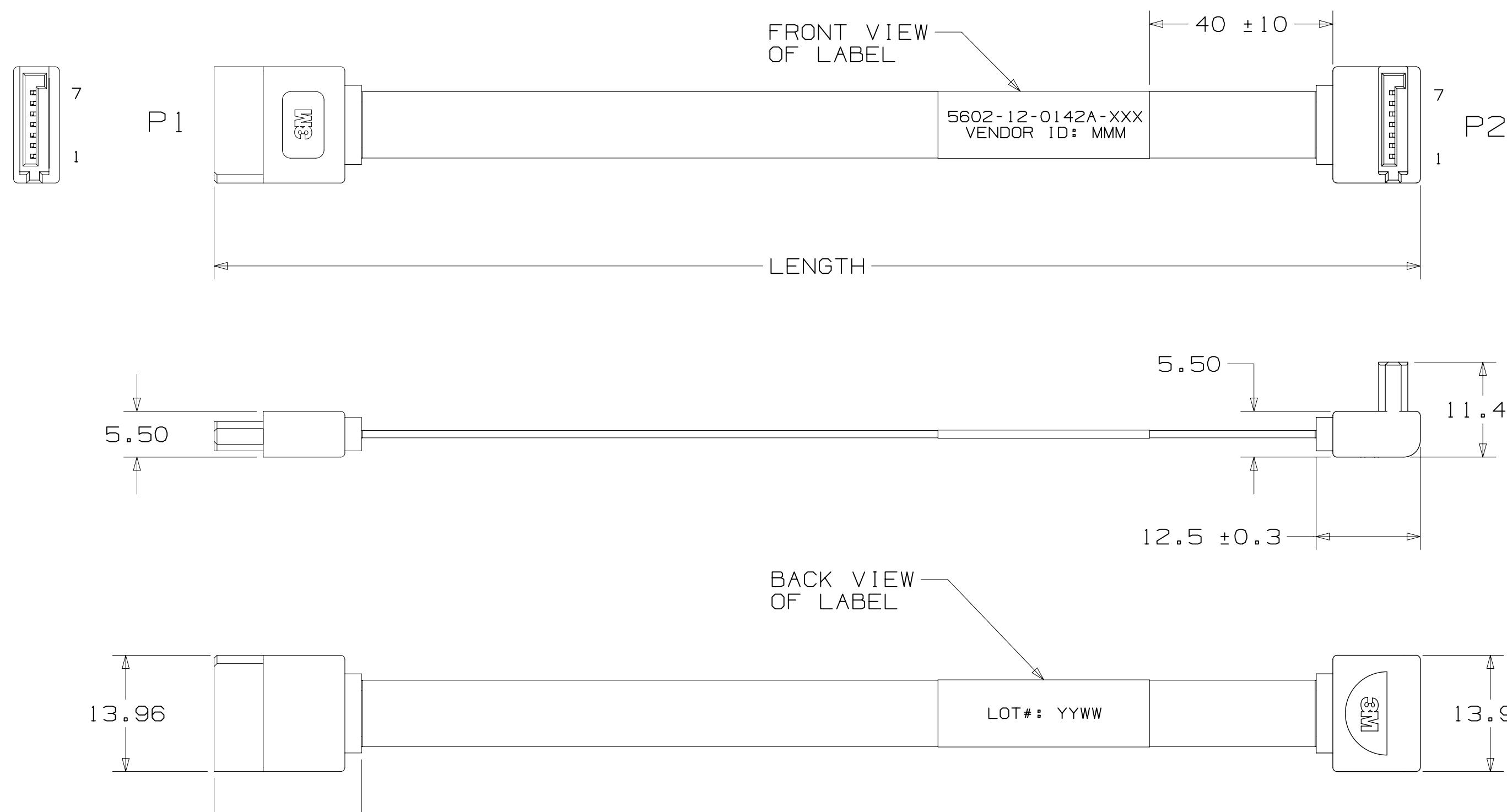


3M PART NUMBER	LENGTH (MM) SEE NOTE 7
5602-11-0142A-100	100
5602-11-0142A-200	200
5602-11-0142A-300	300
5602-11-0142A-400	400
5602-11-0142A-500	500
5602-11-0142A-600	600
5602-11-0142A-700	700
5602-11-0142A-800	800
5602-11-0142A-900	900
5602-11-0142A-1000	1000



RIGHT ANGLE TO RIGHT ANGLE  
WITHOUT LATCHES  
ORDERING INFORMATION  
5602-11-0142A-XXX

LENGTH IN MM,  
XXX REFERS TO 1000mm.



3M PART NUMBER	LENGTH (MM) SEE NOTE 7
5602-12-0142A-100	100
5602-12-0142A-200	200
5602-12-0142A-300	300
5602-12-0142A-400	400
5602-12-0142A-500	500
5602-12-0142A-600	600
5602-12-0142A-700	700
5602-12-0142A-800	800
5602-12-0142A-900	900
5602-12-0142A-1000	1000

STRAIGHT TO RIGHT ANGLE  
WITHOUT LATCHES  
ORDERING INFORMATION  
5602-12-0142A-XXX

LENGTH IN MM,  
XXX REFERS TO 1000mm.

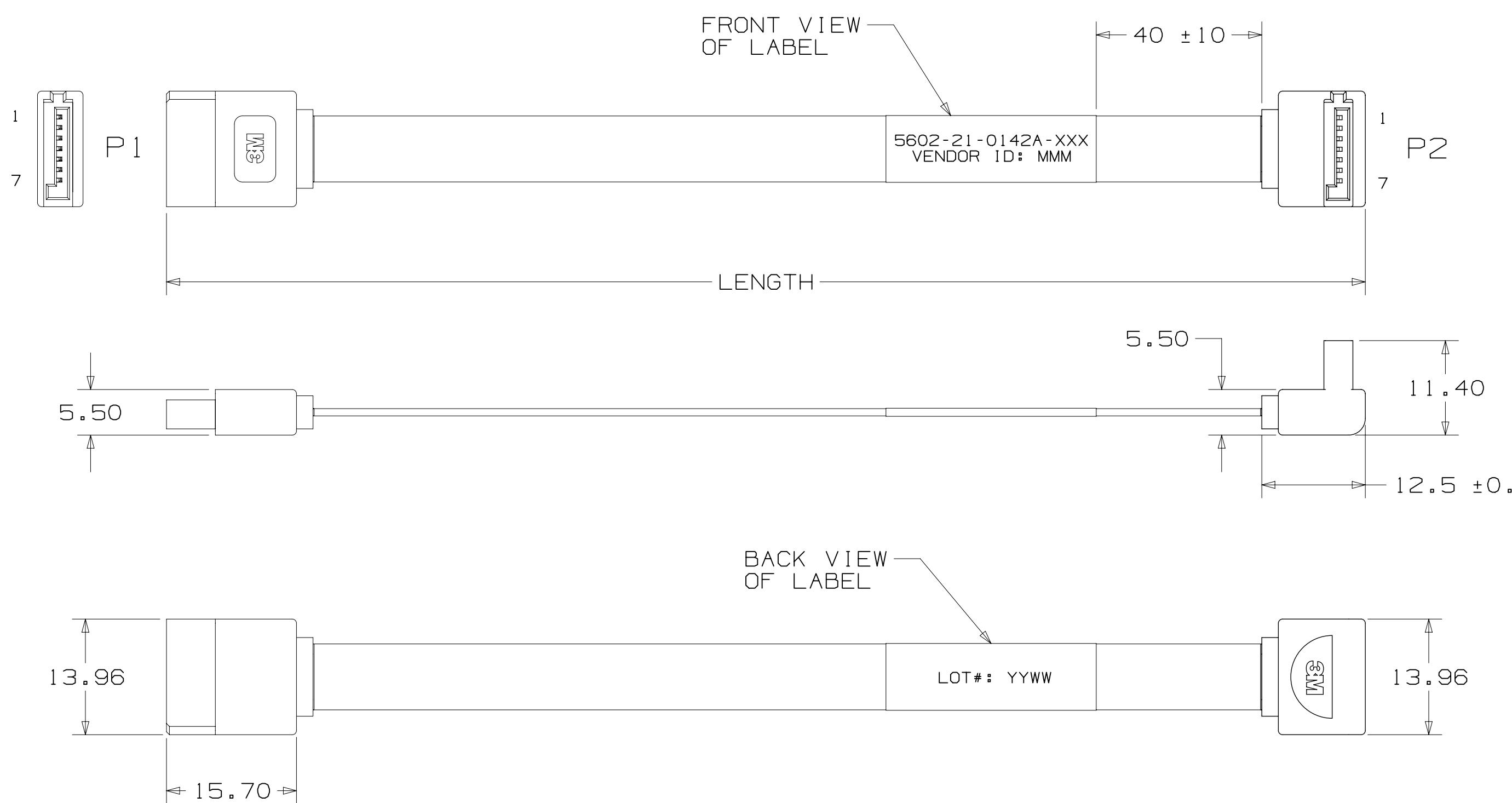
3M ELECTRONICS MATERIALS SOLUTIONS DIVISION  
INTERCONNECT SOLUTIONS  
<http://www.3M.com/interconnect>

3M IS A TRADEMARK OF 3M COMPANY.  
FOR TECHNICAL, SALES OR ORDERING  
INFORMATION CALL 800-225-5373

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
E	114747	MAY 13, 2024 REVISE AND REDRAWN	JNC	MML
D	47119	APR 09, 2013 ADD SHEET 8 & 9	RV	RV
C	43801	DEC 31, 2012 CABLE P/N CHANGE	RV	RV
B	42030	JUL 07, 2012 REVISED DRAWING	RV	RV
A	37492	SEP 05, 2011 REVISED DRAWING	RV	RV
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
R&O VITRAPALLI	DATE JUL 02, 2016	APPROV	DATE JUL 02, 2016	
R&O VITRAPALLI	DATE JUL 02, 2016	APPROV	DATE JUL 02, 2016	
© 3M COPYRIGHT 2024				
This document and the information it contains are confidential and may be used or distributed only with the express permission of 3M or its authorized agents.				
3M Center St. Paul, MN 55144				
HIGH ROUTABILITY INTERNAL SATA CABLE ASSEMBLY				
SIZE	DRAWING NO.	REV.		
D	78-5100-4897-4	E		
DET.	LISTS	YES	NO	SHT 2 OF 7

3M™ HIGH ROUTABILITY INTERNAL SATA CABLE ASSEMBLY, 5602 SERIES  
7 PIN TWINAX CABLE ASSEMBLY, STRAIGHT AND RIGHT ANGLE, WITH AND WITHOUT LATCH

NOTES  
1. REFER TO SHEET 1 FOR NOTES.

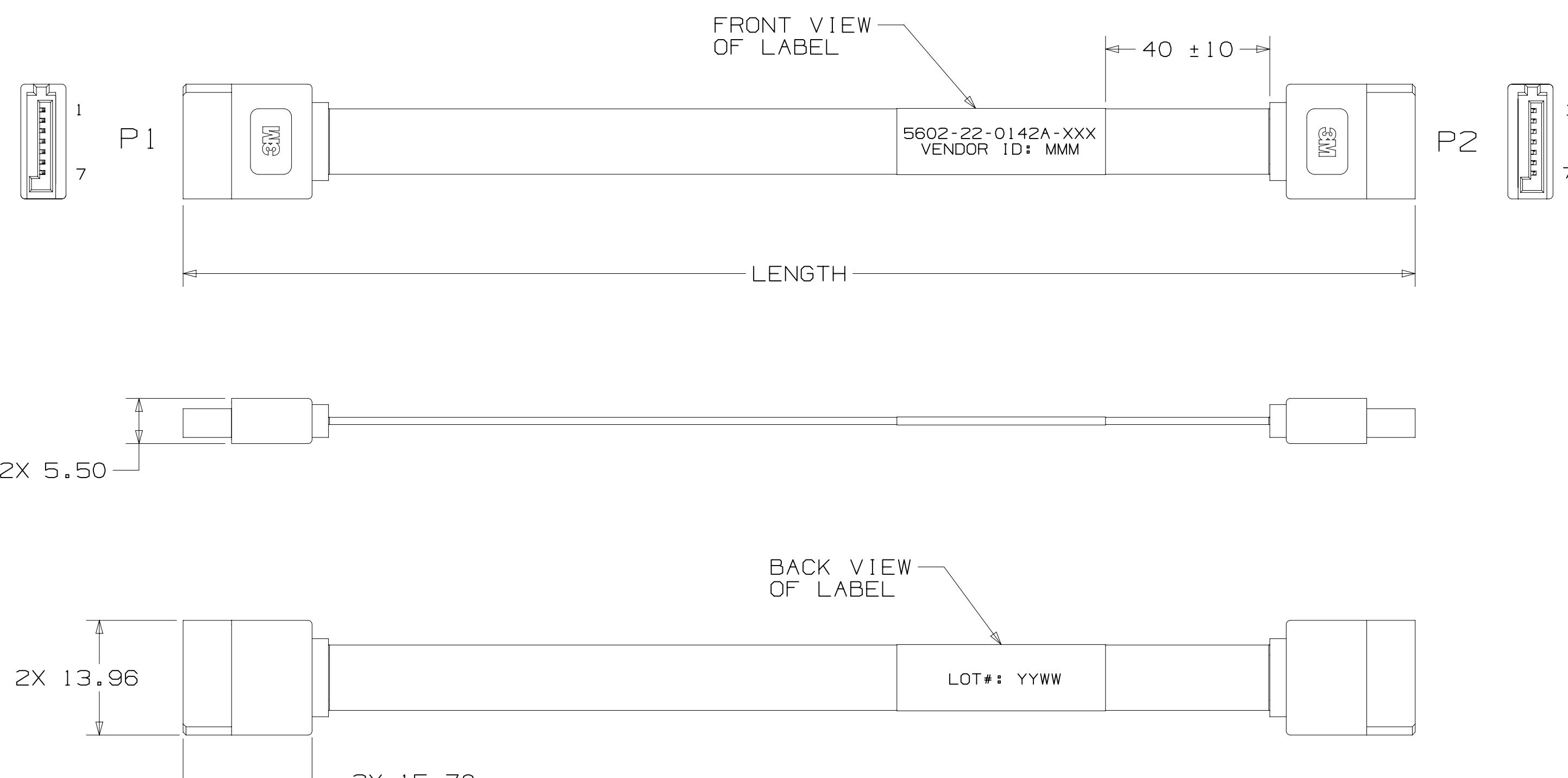


3M PART NUMBER	LENGTH (MM) SEE NOTE 7
5602-21-0142A-100	100
5602-21-0142A-200	200
5602-21-0142A-300	300
5602-21-0142A-400	400
5602-21-0142A-500	500
5602-21-0142A-600	600
5602-21-0142A-700	700
5602-21-0142A-800	800
5602-21-0142A-900	900
5602-21-0142A-1000	1000

STRAIGHT TO RIGHT ANGLE  
WITHOUT LATCHES

ORDERING INFORMATION  
5602-21-0142A-XXX

LENGTH IN MM,  
XXX REFERS TO 1000mm.



3M PART NUMBER	LENGTH (MM) SEE NOTE 7
5602-22-0142A-100	100
5602-22-0142A-200	200
5602-22-0142A-300	300
5602-22-0142A-400	400
5602-22-0142A-500	500
5602-22-0142A-600	600
5602-22-0142A-700	700
5602-22-0142A-800	800
5602-22-0142A-900	900
5602-22-0142A-1000	1000

STRAIGHT TO STRAIGHT  
WITHOUT LATCHES

ORDERING INFORMATION  
5602-22-0142A-XXX

LENGTH IN MM,  
XXX REFERS TO 1000mm.

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

3M IS A TRADEMARK OF 3M COMPANY.  
FOR TECHNICAL, SALES OR ORDERING  
INFORMATION CALL 800-225-5373

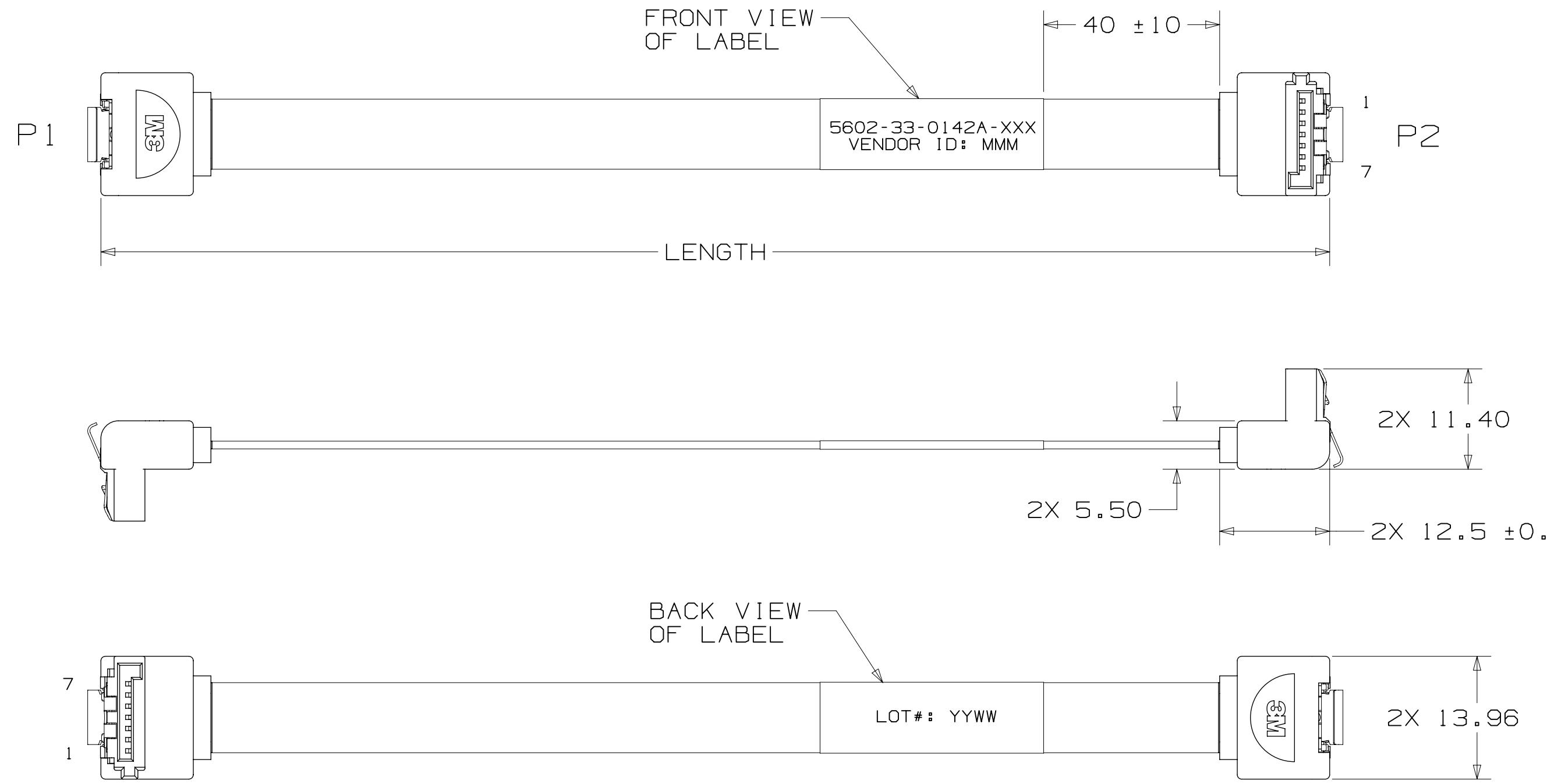
DESIGN REFERENCE	NEXT ASSEMBLY
ACCESS CODES	ECO
DIVISION	RAO VITAPALLI
DO NOT SCALE DRAWING	RAO VITAPALLI
THIRD ANGLE PROJECTION	RAO VITAPALLI
INTERPRET PER ASME Y14.5 - 2018	RAO VITAPALLI
MAX SURFACE ROUGHNESS	RAO VITAPALLI
MARKED ONLY	RAO VITAPALLI
ANGLE S	RAO VITAPALLI
REV. ECO	ISSUE DATE AND DESCRIPTION
E 114747	MAY 13, 2024
D 47119	REVISE AND REDRAWN
C 43801	RV RV
B 42030	DEC 31, 2012
A 37492	CABLE P/N CHANGE
REV. ECO	DATE APPROVED
JUL 02, 2016	JUL 02, 2016
RAO VITAPALLI	SAJUJIT BANDHU
© 3M COPYRIGHT 2024	
This document and the information it contains are confidential and may be protected by law. It is not to be distributed outside the 3M permission, or used or disclosed other than for 3M authorized purposes.	
3M Center St. Paul, MN 55144	
HIGH ROUTABILITY INTERNAL SATA CABLE ASSEMBLY	
CAGE NUMBER	DRAWING NO.
D 78-5100-4897-4	E
DET. LISTS	YES X NO
SHT 3 OF 7	CHKD

# 3M™ HIGH ROUTABILITY INTERNAL SATA CABLE ASSEMBLY, 5602 SERIES 7 PIN TWINAX CABLE ASSEMBLY, STRAIGHT AND RIGHT ANGLE, WITH AND WITHOUT LATCH

7 PIN TWINAX CABLE ASSEMBLY, STRAIGHT AND RIGHT ANGLE, WITH AND WITHOUT LATCH

NOTES

- REFER TO SHEET 1 FOR NOTES.



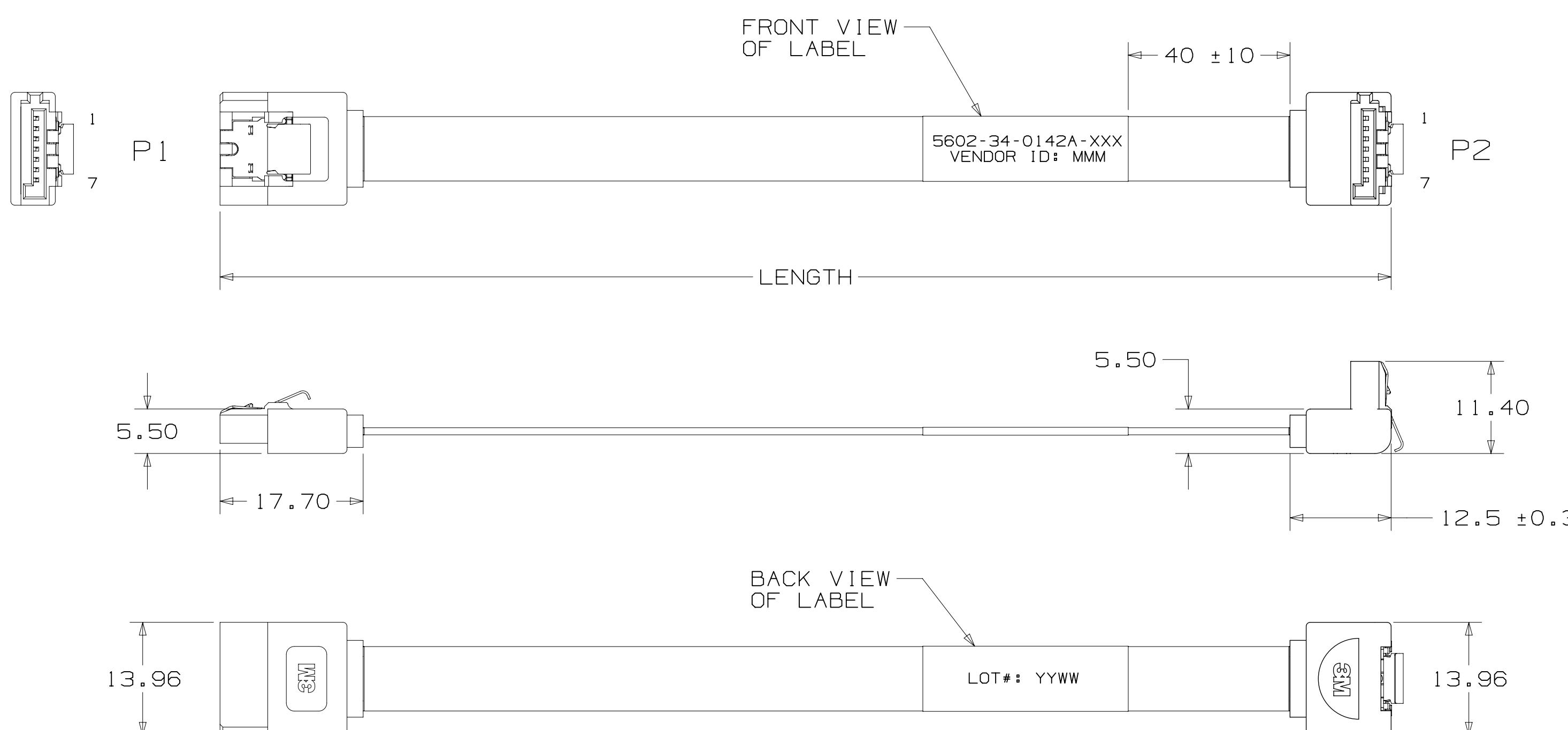
3M PART NUMBER	LENGTH (MM) SEE NOTE 7
5602-33-0142A-100	100
5602-33-0142A-200	200
5602-33-0142A-300	300
5602-33-0142A-400	400
5602-33-0142A-500	500
5602-33-0142A-600	600
5602-33-0142A-700	700
5602-33-0142A-800	800
5602-33-0142A-900	900
5602-33-0142A-1000	1000

# RIGHT ANGLE TO RIGHT ANGLE WITH LATCHES

## ORDERING INFORMATION

5602-33-0142A - XXXX

LENGTH IN MM,  
XXX REFERS TO 1000mm.



3M PART NUMBER	LENGTH (MM) SEE NOTE 7
5602-34-0142A-100	100
5602-34-0142A-200	200
5602-34-0142A-300	300
5602-34-0142A-400	400
5602-34-0142A-500	500
5602-34-0142A-600	600
5602-34-0142A-700	700
5602-34-0142A-800	800
5602-34-0142A-900	900
5602-34-0142A-1000	1000

# STRAIGHT TO RIGHT ANGLE WITH LATCHES

## ORDERING INFORMATION

— LENGTH IN MM,  
XXX REFERS TO 1000mm

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

3M IS A TRADEMARK OF 3M COMPANY.  
FOR TECHNICAL, SALES OR ORDERING  
INFORMATION CALL 800-225-5373

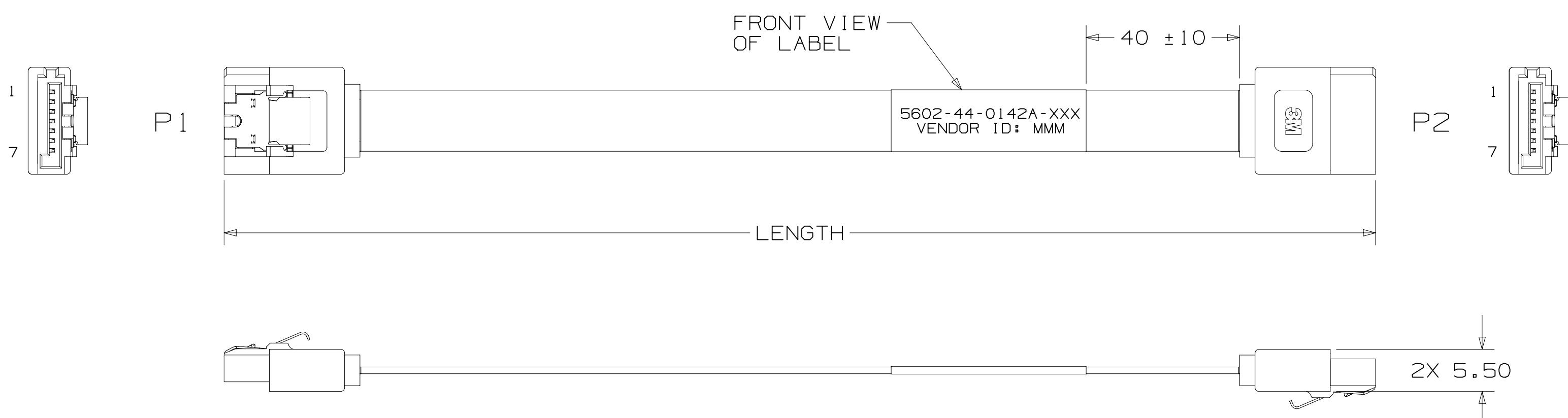
ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
	DATE	MFG	DATE	
TTAPALLI	JUL 02,2016			
TTAPALLI	JUL 02,2016	APPVL SAUJIT BANDHU	DATE JUL 02,2016	
<b>© 3M COPYRIGHT 2024</b>		This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.		
<b>M</b>	3M Center St. Paul, MN 55144			

# HIGH ROUTABILITY INTERNAL SATA CABLE ASSEMBLY

ASSEMBLY		
SIZE	DRAWING NO.	REV.
<b>D</b>	<b>78-5100-4897-4</b>	<b>E</b>
DET. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		BLT. 1 OF 1

**3M™ HIGH ROUTABILITY INTERNAL SATA CABLE ASSEMBLY, 5602 SERIES**  
7 PIN TWINAX CABLE ASSEMBLY, STRAIGHT AND RIGHT ANGLE, WITH AND WITHOUT LATCH

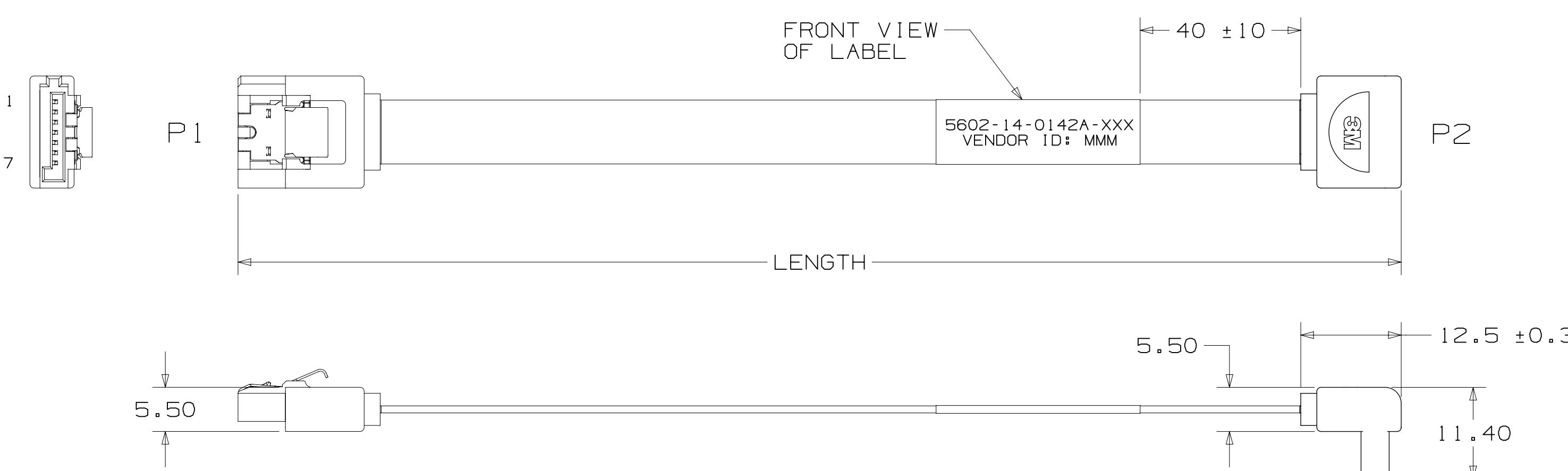
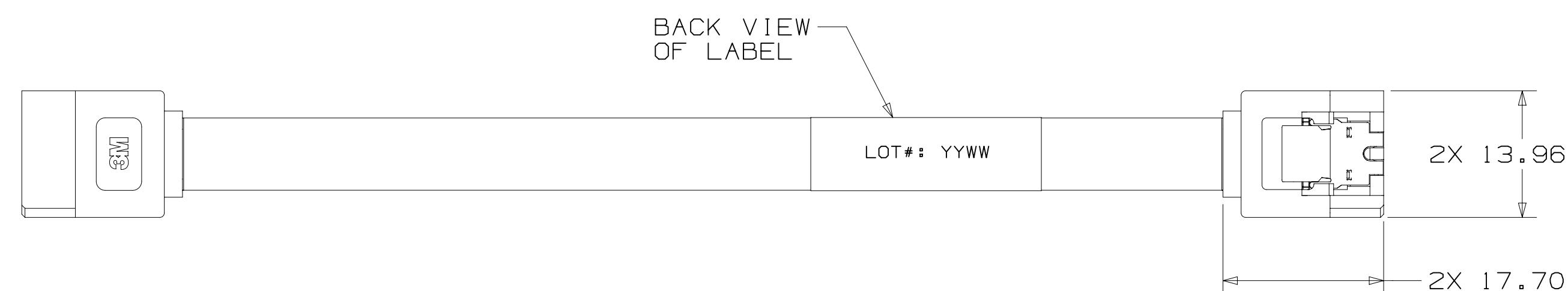
NOTES  
1. REFER TO SHEET 1 FOR NOTES.



3M PART NUMBER	LENGTH (MM) SEE NOTE 7
5602-44-0142A-100	100
5602-44-0142A-200	200
5602-44-0142A-300	300
5602-44-0142A-400	400
5602-44-0142A-500	500
5602-44-0142A-600	600
5602-44-0142A-700	700
5602-44-0142A-800	800
5602-44-0142A-900	900
5602-44-0142A-1000	1000

**STRAIGHT TO STRAIGHT  
WITH LATCHES  
ORDERING INFORMATION**  
5602-44-0142A-XXX

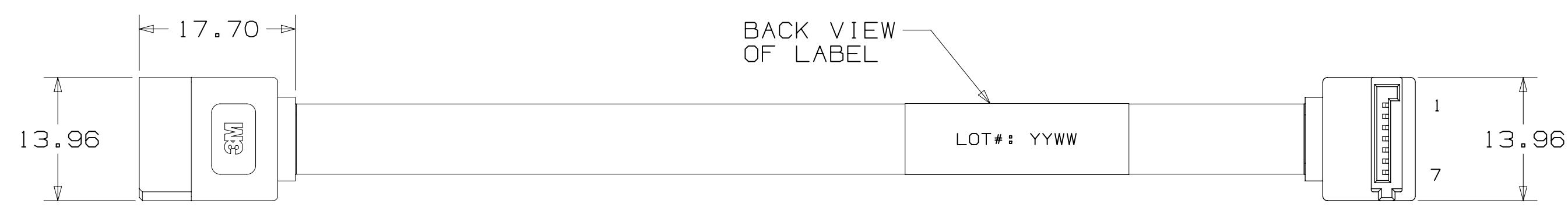
LENGTH IN MM,  
XXX REFERS TO 1000mm.



3M PART NUMBER	LENGTH (MM) SEE NOTE 7
5602-14-0142A-100	100
5602-14-0142A-200	200
5602-14-0142A-300	300
5602-14-0142A-400	400
5602-14-0142A-500	500
5602-14-0142A-600	600
5602-14-0142A-700	700
5602-14-0142A-800	800
5602-14-0142A-900	900
5602-14-0142A-1000	1000

**STRAIGHT WITH LATCH TO  
RIGHT ANGLE WITHOUT LATCH  
ORDERING INFORMATION**  
5602-14-0142A-XXX

LENGTH IN MM,  
XXX REFERS TO 1000mm.



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

3M IS A TRADEMARK OF 3M COMPANY.  
FOR TECHNICAL, SALES OR ORDERING  
INFORMATION CALL 800-225-5373

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
E	114747	MAY 13, 2024 REVISE AND REDRAWN	JNC	MML
D	47119	APR 09, 2013 ADD SHEET 8 & 9	RV	RV
C	43801	DEC 31, 2012 CABLE P/N CHANGE	RV	RV
B	42030	JUL 07, 2012 REVISED DRAWING	RV	RV
A	37492	SEP 05, 2011 REVISED DRAWING	RV	RV
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
RAO VITRAPALLI DATE JUL 02, 2016 MFG DATE				
RAO VITRAPALLI DATE JUL 02, 2016 APPROV. DATE JUL 02, 2016 SAVUIT BANDHU				
<b>3M</b> <small>3M Center St. Paul, MN 55144</small> <small>© 3M COPYRIGHT 2024</small> <small>This document and the information it contains are confidential and may be used only with the permission of 3M or its authorized agents. It is not to be distributed outside 3M or its authorized agents without their written permission, or used or disclosed other than for 3M authorized purposes.</small>				
<b>HIGH ROUTABILITY INTERNAL SATA CABLE ASSEMBLY</b>				
CAGE NUMBER	SIZE	DRAWING NO.	REV.	
D	78-5100-4897-4	E		
DET. LISTS	YES	X NO	SHT 5 OF 7	

8

7

6

5

4

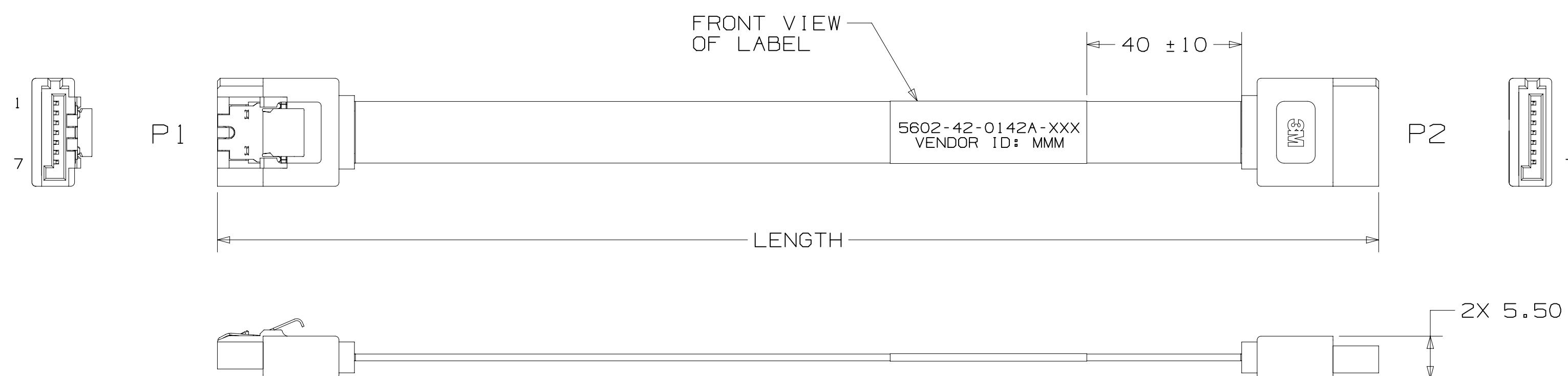
3

2

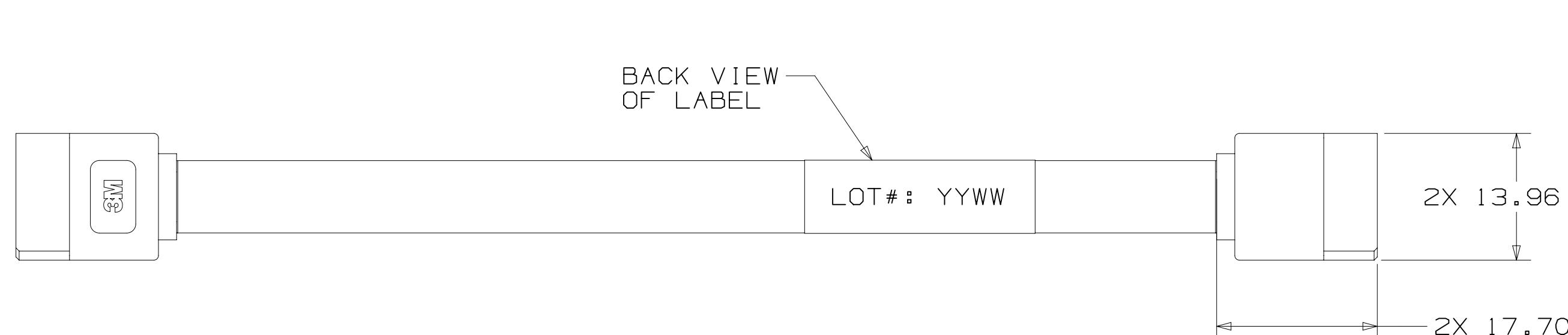
1

3M™ HIGH ROUTABILITY INTERNAL SATA CABLE ASSEMBLY, 5602 SERIES  
7 PIN TWINAX CABLE ASSEMBLY, STRAIGHT AND RIGHT ANGLE, WITH AND WITHOUT LATCH

NOTES  
1. REFER TO SHEET 1 FOR NOTES.



3M PART NUMBER	LENGTH (MM) SEE NOTE 7
5602-42-0142A-100	100
5602-42-0142A-200	200
5602-42-0142A-300	300
5602-42-0142A-400	400
5602-42-0142A-500	500
5602-42-0142A-600	600
5602-42-0142A-700	700
5602-42-0142A-800	800
5602-42-0142A-900	900
5602-42-0142A-1000	1000



STRAIGHT LATCH TO  
STRAIGHT WITHOUT LATCH  
ORDERING INFORMATION

5602-42-0142A-XXX

LENGTH IN MM,  
XXX REFERS TO 1000mm.

DRAFTS NUMBER: 78-5100-4897-4 | REV: E

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
E	114747	MAY 13, 2024 REVISE AND REDRAWN	JNC	MML
D	47119	APR 09, 2013 ADD SHEET 8 & 9	RV	RV
C	43801	DEC 31, 2012 CABLE P/N CHANGE	RV	RV
B	42030	JUL 07, 2012 REVISED DRAWING	RV	RV
A	37492	SEP 05, 2011 REVISED DRAWING	RV	RV

DESIGN REFERENCE		NEXT ASSEMBLY		DATE	MFG	DATE
RAO VITRAPALLI	JUL 02, 2016	RAO VITRAPALLI	JUL 02, 2016			
OHO VITRAPALLI	JUL 02, 2016	APPROV.	JUL 02, 2016	APPROV.	JUL 02, 2016	APPROV.

ACCES CODES		DIVISION CODE		TOLERANCES EXCEPT AS NOTED			INCHES		MILLIMETERS			ANGLE S	
DO NOT SCALE DRAWING	SCALE DRAWING	EMSD	THIRD ANGLE PROJECTION	.0	.025	.000	.0	.025	.000	.015	.000	DEGREES	
				.000	.000	.000	.000	.000	.000	.000	.000		
				.000	.000	.000	.000	.000	.000	.000	.000		
				.000	.000	.000	.000	.000	.000	.000	.000		

INTERPRET PER		MAX SURFACE ROUGHNESS		DRAWING NO.		DET. LISTS		NO		REV.	
ASME Y14.5 - 2018	L1A SURFACES	.000	.015	D	78-5100-4897-4	E					
	L2A SURFACES	.000	.005								

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

3M IS A TRADEMARK OF 3M COMPANY.  
FOR TECHNICAL, SALES OR ORDERING  
INFORMATION CALL 800-225-5373

© 3M COPYRIGHT 2024  
This document and the information it contains are  
confidential and may only be distributed or copied  
with the express written permission of 3M or its  
authorized agents. All rights reserved.

**3M**  
3M Center  
St. Paul, MN 55144

HIGH ROUTABILITY  
INTERNAL SATA CABLE  
ASSEMBLY

CAGE NUMBER: D 78-5100-4897-4 | REV: E

DET. LISTS: YES NO | SHT 6 OF 7

# 3M™ HIGH ROUTABILITY INTERNAL SATA CABLE ASSEMBLY, 5602 SERIES

7 PIN TWINAX CABLE ASSEMBLY, STRAIGHT AND RIGHT ANGLE, WITH AND WITHOUT LATCH

**Regulatory:** For regulatory information about this product, visit [3M.com/regs](http://3M.com/regs) or contact your 3M representative.

**Technical Information:** The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

**Product Use:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product in accordance with all applicable instructions and with appropriate safety equipment, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

**Warranty, Limited Remedy, and Disclaimer:** Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement or repair of the 3M product or refund of the purchase price.

**Limitation of Liability:** Except for the limited remedy stated above, and except to the extent prohibited by applicable law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

**Disclaimer:** For industrial use only. Not intended, labeled or packaged for consumer sale or use.

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

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

3M IS A TRADEMARK OF 3M COMPANY.  
FOR TECHNICAL, SALES OR ORDERING  
INFORMATION CALL 800-225-5373

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
E	114747	MAY 13, 2024 REVISE AND REDRAWN	JNC	MML
D	47119	APR 09, 2013 ADD SHEET 8 & 9	RV	RV
C	43801	DEC 31, 2012 CABLE P/N CHANGE	RV	RV
B	42030	JUL 07, 2012 REVISED DRAWING	RV	RV
A	37492	SEP 05, 2011 REVISED DRAWING	RV	RV
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DESIGN REFERENCE      NEXT ASSEMBLY				
RAO VITRAPALLI      JUL 02, 2016      MFG      DATE				
RAO VITRAPALLI      DATE APPROVED JUL 02, 2016      APPROV'D BY SAJUIT BANDHU      DATE JUL 02, 2016				
© 3M COPYRIGHT 2024				
This document and the information it contains are confidential and may be used only with the permission of 3M or its authorized agents. It is not to be distributed outside the 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.				
3M Center St. Paul, MN 55144				
HIGH ROUTABILITY INTERNAL SATA CABLE ASSEMBLY				
DRAWING NO. D 78-5100-4897-4 REV. E				
DET. LISTS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SHT 7 OF 7				

