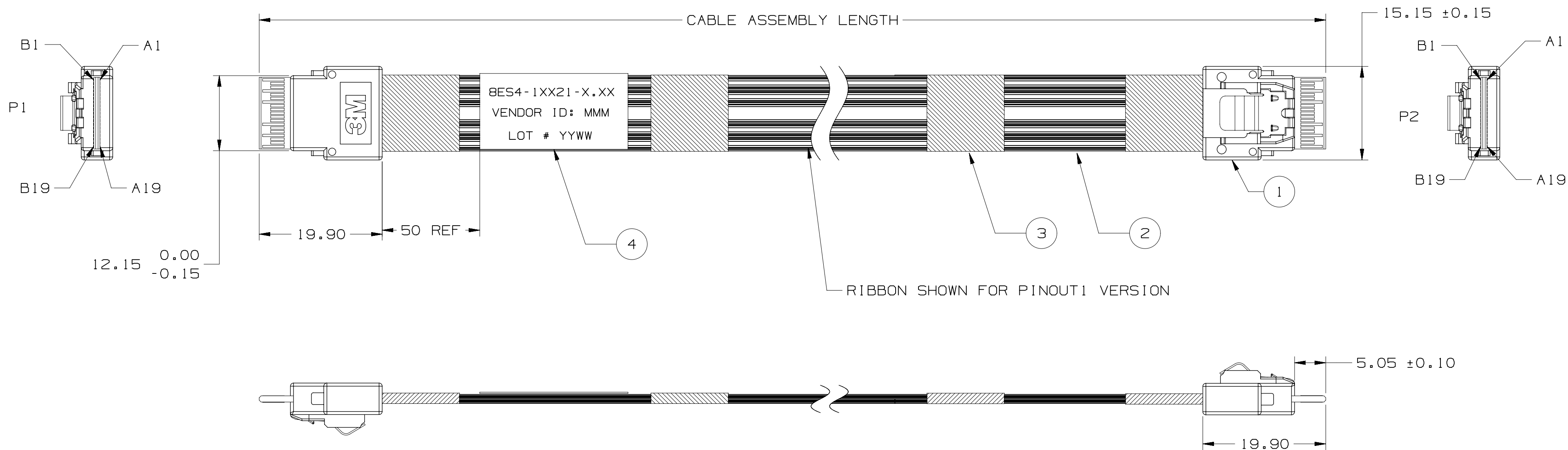


3M™ SlimLine Twin Axial Cable Assembly (SFF-8654) for SAS and PCIe applications



4	LABEL, PART NUMBER	1X
3	ACETATE TAPE	AS REQUIRED
2	TWIN AX CABLE , REFER TO NOTES	AS PER LENGTH
1	SLIMSAS 4X PLUG STRAIGHT	2X
ITEM	SPECIFICATION	QUANTITY

8ES4-1XX2X-X.XX
VENDOR : MMM
LOT #WWYY

LABEL INFORMATION

PART NUMBER: 8ES4-1XX2X-X.XX

AA- PINOUT 1
DF- PINOUT 2

- 1 - ST-ST Plug Assembly.
2 - RA-ST Plug Assembly.
3 - RA-RA Plug Assembly.

LENGTH IN METERS
0.125m TO 1.0 m MAX.

PINOUT 1				PINOUT 2			
P1		P2		P1		P2	
A1	GND	GND	B1	B1	GND	GND	A1
A2	RX0+	TX0+	B2	B2	RX0+	TX0+	A2
A3	RX0-	TX1-	B3	B3	RX0-	TX1-	A3
A4	GND	GND	B4	B4	GND	GND	A4
A5	RX1+	TX1+	B5	B5	RX1+	TX1+	A5
A6	RX1-	TX1-	B6	B6	RX1-	TX1-	A6
A7	GND	GND	B7	B7	GND	GND	A7
A8	SB	SB	B8	B8	SB	SB	A8
A9	SB	SB	B9	B9	SB	SB	A9
A10	SB	SB	B10	B10	SB	SB	A10
A11	SB	SB	B11	B11	SB	SB	A11
A12	SB	SB	B12	B12	SB	SB	A12
A13	GND	GND	B13	B13	GND	GND	A13
A14	RX2+	TX2+	B14	B14	RX2+	TX2+	A14
A15	RX2-	TX2-	B15	B15	RX2-	TX2-	A15
A16	GND	GND	B16	B16	GND	GND	A16
A17	RX3+	TX3+	B17	B17	RX3+	TX3+	A17
A18	RX3-	TX3-	B18	B18	RX3-	TX3-	A18
A19	GND	GND	B19	B19	GND	GND	A19

PINOUT 1				PINOUT 2			
P1		P2		P1		P2	
A1	GND	GND	B1	B1	GND	GND	A1
A2	RX0+	TX0+	B2	B2	RX0+	TX0+	A2
A3	RX0-	TX1-	B3	B3	RX0-	TX1-	A3
A4	GND	GND	B4	B4	GND	GND	A4
A5	RX1+	TX1+	B5	B5	RX1+	TX1+	A5
A6	RX1-	TX1-	B6	B6	RX1-	TX1-	A6
A7	GND	GND	B7	B7	GND	GND	A7
A8	SB+	SB+	B8	B8	SB+	SB+	A8
A9	SB-	SB-	B9	B9	SB-	SB-	A9
A10	GND	GND	B10	B10	GND	GND	A10
A11	SB+	SB+	B11	B11	SB+	SB+	A11
A12	SB-	SB-	B12	B12	SB-	SB-	A12
A13	GND	GND	B13	B13	GND	GND	A13
A14	RX2+	TX2+	B14	B14	RX2+	TX2+	A14
A15	RX2-	TX2-	B15	B15	RX2-	TX2-	A15
A16	GND	GND	B16	B16	GND	GND	A16
A17	RX3+	TX3+	B17	B17	RX3+	TX3+	A17
A18	RX3-	TX3-	B18	B18	RX3-	TX3-	A18
A19	GND	GND	B19	B19	GND	GND	A19

PINOUT 1				PINOUT 2			
P1		P2		P1		P2	
B1	GND	GND	A1	B1	GND	GND	A1
B2	RX0+	TX0+	A2	B2	RX0+	TX0+	A2
B3	RX0-	TX1-	A3	B3	RX0-	TX1-	A3
B4	GND	GND	A4	B4	GND	GND	A4
B5	RX1+	TX1+	A5	B5	RX1+	TX1+	A5
B6	RX1-	TX1-	A6	B6	RX1-	TX1-	A6
B7	GND	GND	A7	B7	GND	GND	A7
B8	SB+	SB+	A8	B8	SB+	SB+	A8
B9	SB-	SB-	A9	B9	SB-	SB-	A9
B10	GND	GND	A10	B10	GND	GND	A10
B11	SB+	SB+	A11	B11	SB+	SB+	A11
B12	SB-	SB-	A12	B12	SB-	SB-	A12
B13	GND	GND	A13	B13	GND	GND	A13
B14	RX2+	TX2+	A14	B14	RX2+	TX2+	A14
B15	RX2-	TX2-	A15	B15	RX2-	TX2-	A15
B16	GND	GND	A16	B16	GND	GND	A16
B17	RX3+	TX3+	A17	B17	RX3+	TX3+	A17
B18	RX3-	TX3-	A18	B18	RX3-	TX3-	A18
B19	GND	GND	A19	B19	GND	GND	A19

NOTE: ALL GND SIGNALS ARE TIED TOGETHER IN THE PADDLECARDS AT EACH END OF ASSEMBLY

DESIGN REFERENCE				NEXT ASSEMBLY				REV				ECO				ISSUE DATE AND DESCRIPTION				DRFT		CHKD											
ACCESS CODES		U5682		S6830a														DRFT		Rao Vittapalli		DATE		AUG 24, 2016		WFG		JG Liu		DATE		AUG 24, 2016	
																		CHKD		Rao Vittapalli		DATE		AUG 24, 2016		APPVL		Saujit Bandhu		DATE		AUG 24, 2016	
DIVISION								DIVISION CODE								<div>3M</div> <div>3M Center St. Paul, MN 55144</div> <div>© 3M COPYRIGHT 2019</div> <div>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.</div>																	
DO NOT SCALE DRAWING				SCALE 2 1				TOLERANCES EXCEPT AS NOTED				TITLE																					
								<div>INCHES</div> <div>0.0 ±</div> <div>0.00 ±</div> <div>0.000 ±</div> <div>0.000 ±</div>								CUSTOMER DRAWING SLIMLINE 85 OHM X4 30AWG CABLE ASSY																	
THIRD ANGLE PROJECTION								<div>MILLIMETERS</div> <div>0 ±</div> <div>0.0 ±</div> <div>0.00 ±</div> <div>0.000 ±</div> <div>0.005 ±</div>																									
INTERPRET PER ASME Y14.5 - 2009																CAGE NUMBER				SIZE		DRAWING NO.				REV.							
MAX SURFACE ROUGHNESS 125								<input type="checkbox"/> ALL SURFACES <input checked="" type="checkbox"/> MARKED ONLY								C				78-5100-2666-5		C											
ANGLES ±1°								MODEL								DET. LISTS				<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				SHT 1 OF 2									

78-5100-2666-5
DRAWING NUMBER

C
REVISION

B

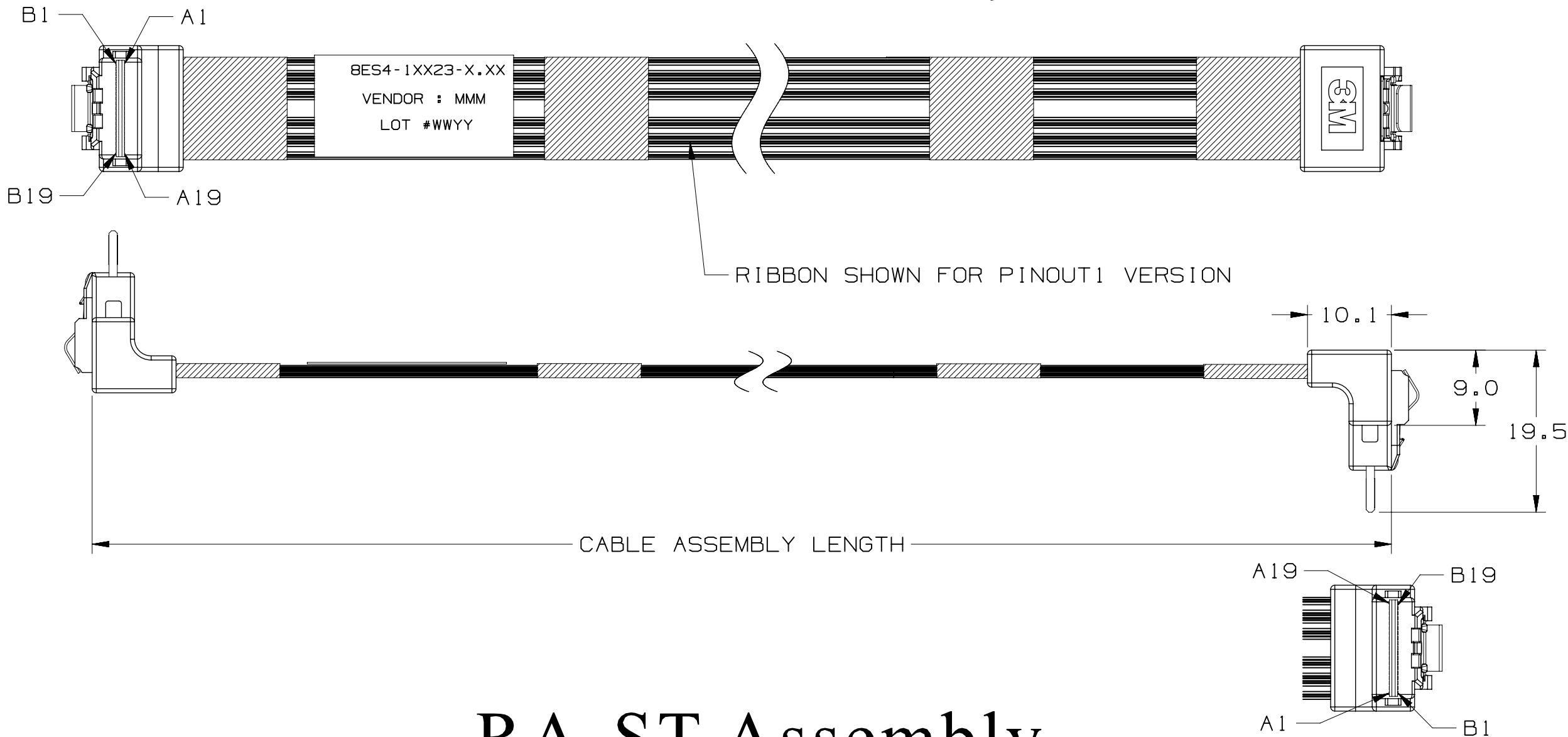
A

3M™ SlimLine Twin Axial Cable Assembly (SFF-8654) for SAS and PCIe applications

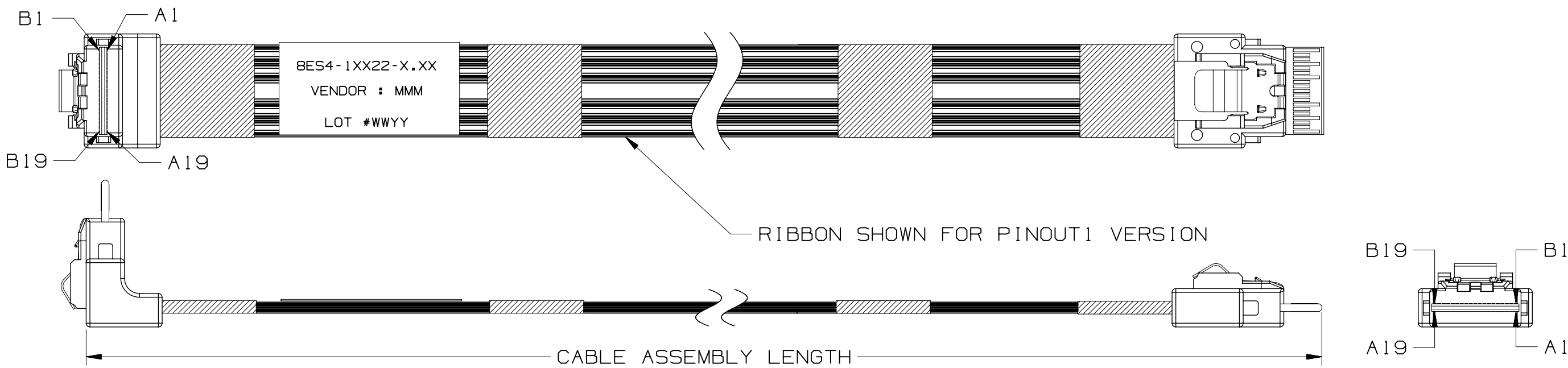
NOTES:

1. REGULATORY INFORMATION:
VISIT 3M.com/regs OR CONTACT
YOUR 3M REPRESENTATIVE TO FIND
THE RoHS COMPLIANCE STATUS OF
THE 3M PART YOU ARE INTERESTED IN.
2. PADDLECARD PLATING:
30µ" MIN. GOLD PLATING
50µ" MIN. NICKEL UNDERPLATING.
P/N: 78-9102-4552-7 (4P+5SB)
P/N: 78-9102-3249-1 (6P)
3. SLIMLINE CABLE PLUG DIMENSIONS
ARE DESIGNED TO SFF-8654.
4. PRODUCT SPECIFICATION: PS-240.
5. TWO RIBBONS OF 3M™ RIBBON TWIN
AXIAL CABLE.
PINOUT 1:
SL8801/13-2JBK5-00 - 4 PAIR
30AWG,5SB,VW1, GND TUCKED-IN.
PINOUT 2:
SL8802/12-2JBN5-00 - 6 PAIR
30AWG,VW1, GND TUCKED-IN.
6. THIS CABLE CONSTRUCTION HAS A THIN
ALUMINUM LAYER AT EACH EDGE.
USER SHOULD EVALUATE ITS USE IN
THEIR APPLICATION AND, IF NECESSARY,
INSULATING TAPE MAY BE APPLIED TO
COVER THE ALUMINUM LAYER, AS
USER DEEMS APPROPRIATE.
7. UNLESS OTHERWISE NOTED,
REFERENCE TO INDUSTRY SPECIFICATIONS
ARE INTENDED TO INDICATE SUBSTANTIAL
COMPLIANCE TO MATERIAL ELEMENTS OF
THE SPECIFICATION. SUCH REFERENCES
SHOULD NOT BE CONSTRUED AS A GUARANTEE
OF COMPLIANCE TO ALL REQUIREMENTS IN A
GIVEN SPECIFICATION.
8. CLOTH TAPE WRAPPED AROUND CABLE
RIBBONS AT BACK OF EACH CONNECTOR.
ALSO, UP TO TWO ADDITIONAL TAPE
PIECES WILL BE WRAPPED AROUND THE
TWO CABLE RIBBONS SPACED EQUIDISTANT
FROM THE CONNECTOR ENDS AND EACH
OTHER, DEPENDING ON ASS'Y LENGTH (L):
L <= 0.2M: NO ADDITIONAL TAPE
0.2M < L <= 0.6M: 1 TAPE WRAP
0.6M < L <= 1.0M: 2 TAPE WRAP
9. LENGTH TOLERANCE:
±6 MM FOR LENGTHS 0.125 TO 0.4 METERS,
±10 MM FOR LENGTHS 0.4 TO 1.0 METERS.

RA-RA Assembly.



RA-ST Assembly.



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DESIGN REFERENCE NEXT ASSEMBLY

ACCESS CODES	US682	S9830a			
DIVISION			DIVISION CODE		
DO NOT SCALE DRAWING	SCALE 1/1	TOLERANCES EXCEPT AS NOTED			
THIRD ANGLE PROJECTION		INCHES 0 ±.00 ±.000 ±.0000			
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS 0 ±1 ±.5 ±.2 ±.005			
MAX SURFACE ROUGHNESS 125	ALL SURFACES MARKED ONLY	ANGLES ±1°			

C	81149	JAN 14, 2019	VT	VT
B	73021	MAY 02, 2017	RAO	RAO
A	69548	AUG 24, 2016	RAO	RAO
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DRFT	Rao Vittopalli	DATE AUG 24, 2016	MFG JG Liu	DATE AUG 24, 2016
CHKD	Rao Vittopalli	DATE AUG 24, 2016	APPRV. Saujit Bandhu	DATE AUG 24, 2016
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3M 3M Center St. Paul, MN 55144				
TITLE CUSTOMER DRAWING SLIMLINE 85 OHM X4 30AWG CABLE ASSY				
CAGE NUMBER	SIZE	DRAWING NO.	REV.	
	C	78-5100-2666-5	C	
MODEL	DET. LISTS		YES NO	
			SHT 2 OF 2	