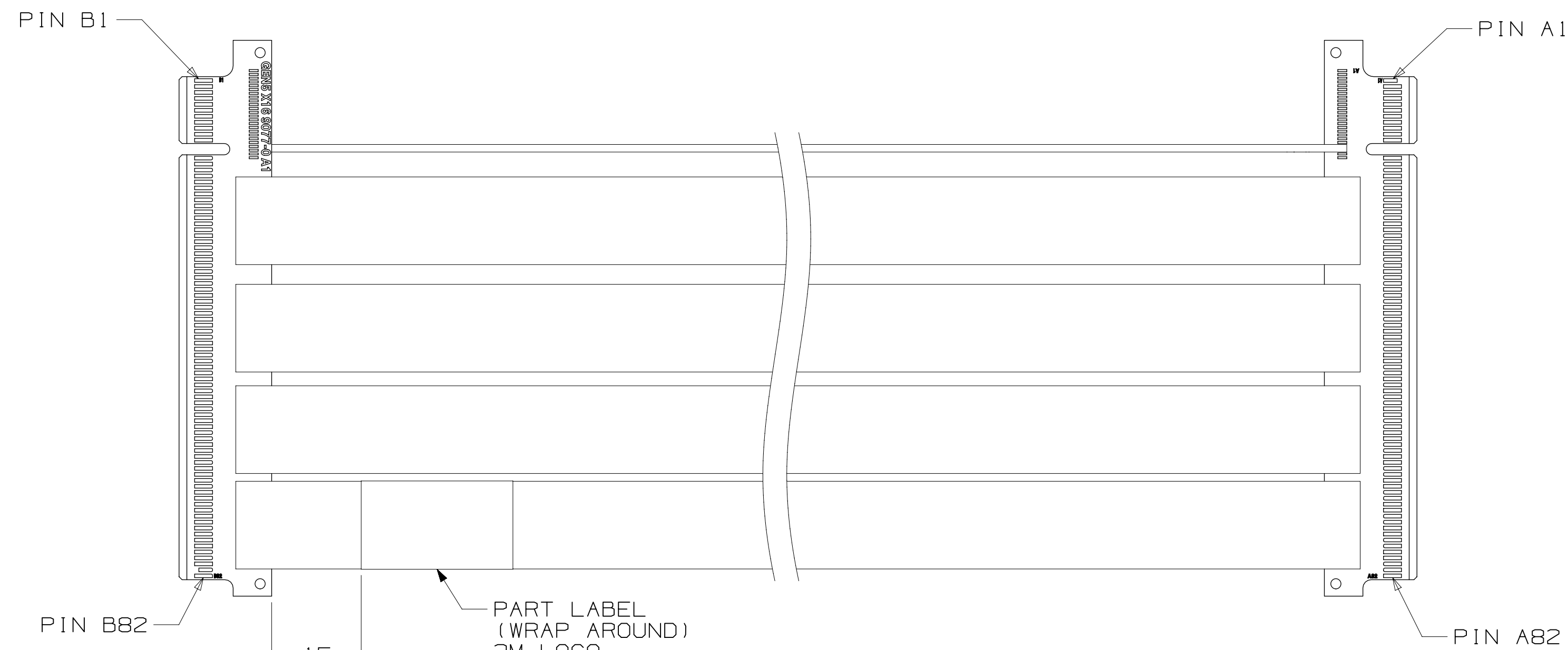


# 3M™ TWIN AXIAL PCI EXPRESS JUMPER CABLE ASSEMBLIES GEN 5.0

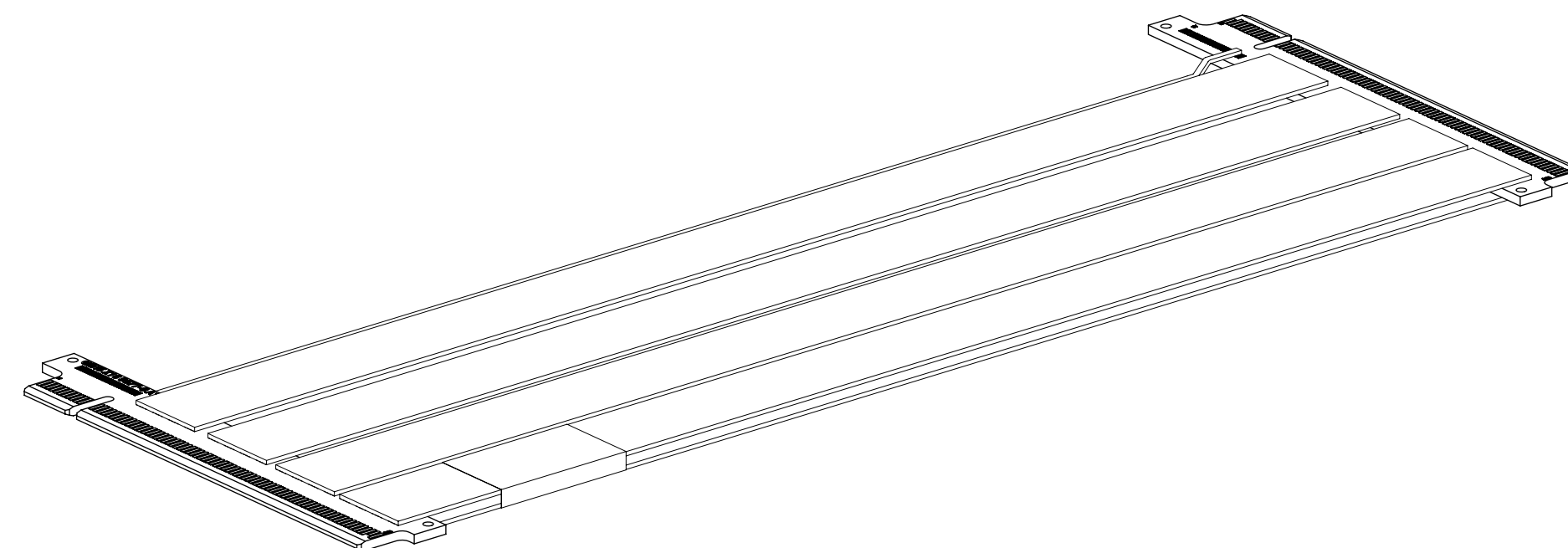
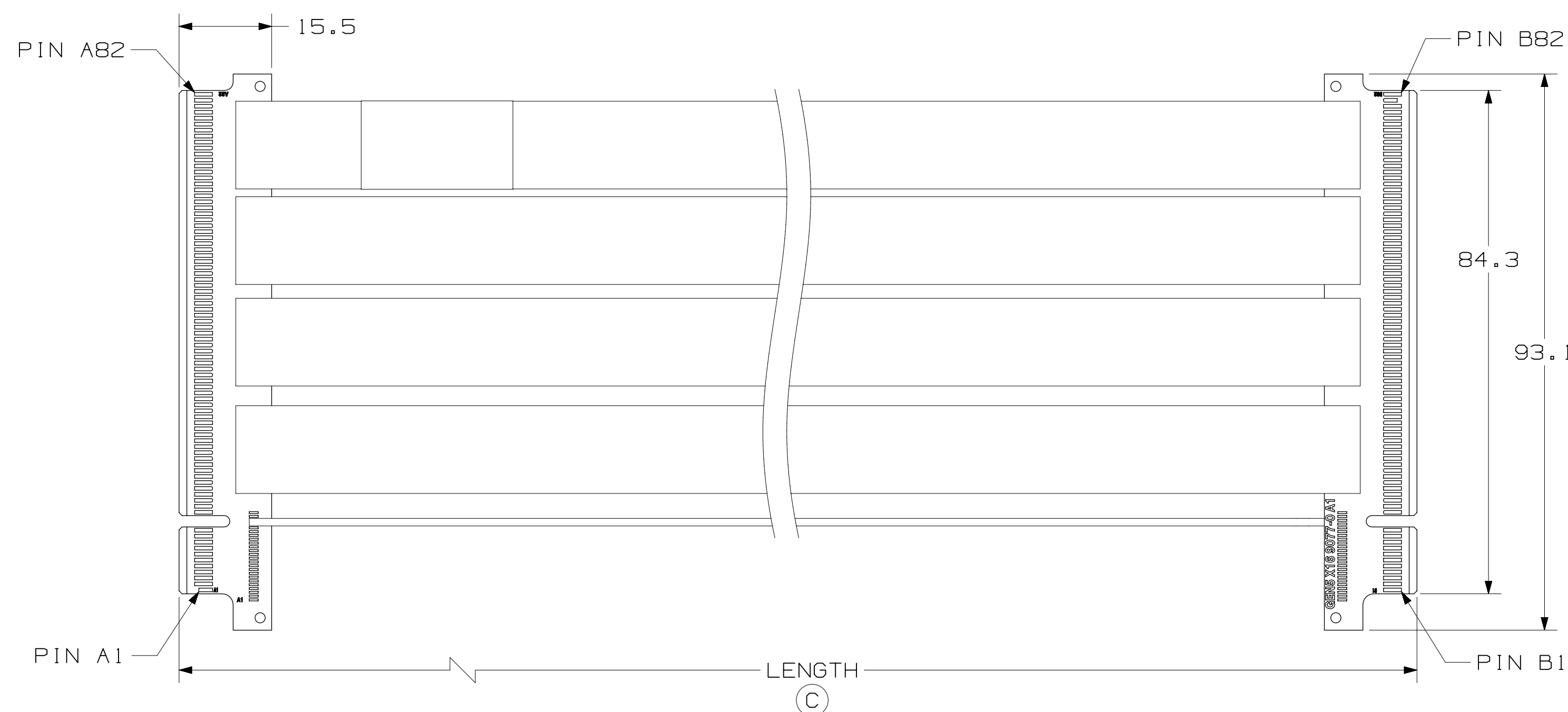
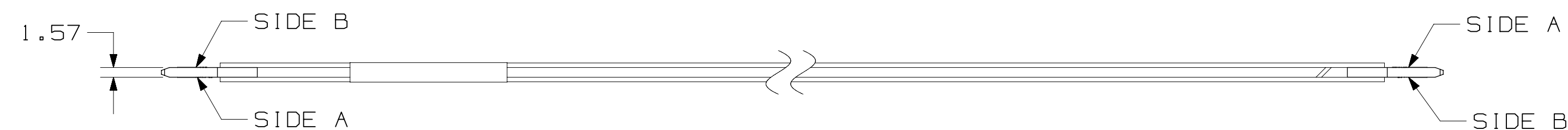


×16 CROSS-OVER VERSION  
ORDERING INFORMATION

8KFH-0987-XXXX

— STANDARD LENGTHS DIM. "A"  
0250 = [ 250 MM ]  
0500 = [ 500 MM ]


NOTE:  
NON-STANDARD LENGTHS AVAILABLE UPON REQUEST.  
MAY REQUIRE HIGHER MOQ'S AND LONGER LEAD TIMES.



1. DIMENSIONS ARE IN MILLIMETERS.
2. 3M TWIN AXIAL CABLE DESCRIPTION:  
30 AWG, SILVER PLATED SIGNAL WIRE  
IMPEDANCE: 87  $\pm$  5 OHM  
OVERALL RIBBON WIDTH: 14.56 MM  
OVERALL RIBBON THICKNESS: 0.74 MM
3. REGULATORY INFORMATION:  
VISIT [3M.com/regs](http://3M.com/regs) OR CONTACT  
YOUR 3M REPRESENTATIVE TO FIND  
THE RoHS COMPLIANCE STATUS OF  
THE 3M PART YOU ARE INTERESTED  
IN.
4. 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.
5. PRODUCT SPECIFICATION: PS-0390.
6. FLAMMABILITY RATING  
-TWINAX/AUX RIBBONS: UL758  
HORIZONTAL FLAME  
TEST FOR INTERNAL WIRING  
-PCBS: UL94V-0
7. PADDLECARD PLATING:  
30 $\mu$ " MIN. GOLD PLATING  
50 $\mu$ " MIN. NICKEL UNDERPLATING.
8. 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.
9. LENGTH TOLERANCE:  
 $\pm$  5MM FOR LENGTHS LESS THAN 0.5M,  
 $\pm$  8MM FOR LENGTHS 0.5 TO 1.0 METER.
10. (C) DENOTES CRITICAL DIMENSION.
11. LABEL LOCATION MAY VARY ON  
SHORTER CABLE ASSEMBLIES,  
 $\leq$  250 MM.  
LABEL MUST NOT LAY ON TOP  
OF BLACK TAPE.

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<http://www.3M.com/interconnect>

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INFORMATION CALL 800-225-5373

		A 012684		JAN 06, 2025		GAW		MML	
				PRODUCTION RELEASE					
ISSUE REFERENCE		NEXT ASSEMBLY		ISSUE DATE AND DESCRIPTION		DRFT		CHKD	
ADDRESS CODES				DATE JAN 06, 2025		APPRV J G LIU		DATE JAN 06, 2025	
				DATE JAN 06, 2025		APPRV M LETTANG		DATE JAN 06, 2025	
DIVISION		DIVISION CODE EMSD		© 3M COPYRIGHT 2025					
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED		 3M Center St. Paul, MN 55144		This document and the information it contains are 3M property and may not be reproduced or further distributed without the 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.			
THIRD ANGLE PROJECTION		INCHES 0.000 ± 0.000 ± 0.000 ±				TITLE  3M PCIE JUMPER CABLE ASSY GEN5			
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS 0 ± 0 ± 0.5 0.00 ± 0.05 0.000 ± 0.005		CASE NUMBER		DRAWING NO.		REV.	
MAX SURFACE ROUGHNESS DUAL SURFACES ✓ □ MARKED ONLY		ANGLES		D 078-5100-2807-5		078-5100-2807-5		A	
				MODEL GEN 5		DET LISTS □ YES ☒ NO		SHT 1 OF 4	

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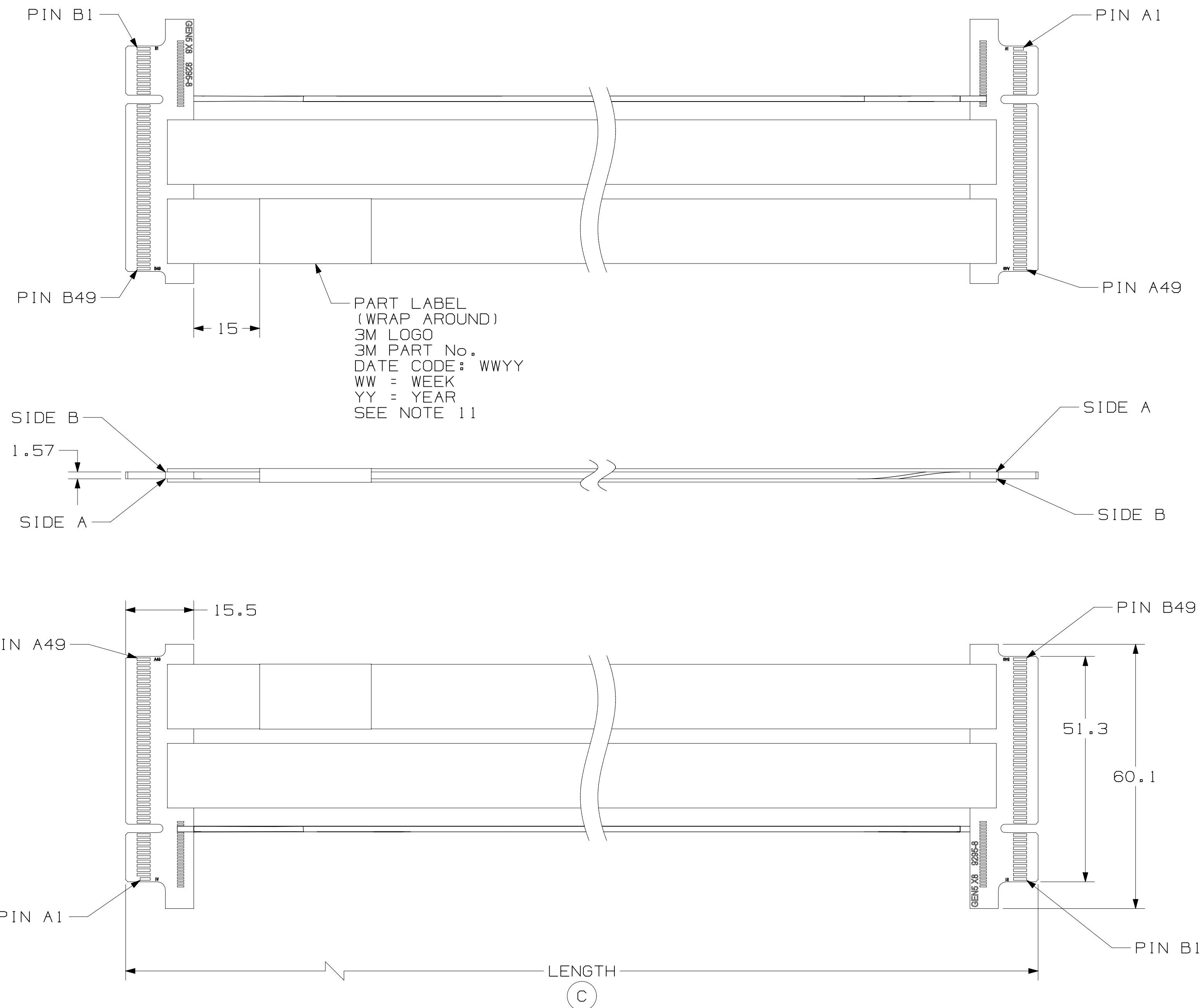
STANDARD LENGTHS DIM. "A"  
0250 = [ 250 MM ]  
0500 = [ 500 MM ]

A technical line drawing of a three-part sliding door system. The drawing shows three parallel horizontal tracks, each with a roller at one end. The rollers are mounted on a common vertical support structure. The tracks are shown in a perspective view, with the front track slightly offset from the middle and back tracks. The rollers are shown in cross-section, revealing their internal structure and the way they fit into the tracks. The drawing is a black and white line drawing, typical of technical manuals.

PASS-THRU PINOUT ASSEMBLIES HAVE A RIBBON TRANSPOSITION ZONE, OF LENGTH "A", WHERE THE TOP/BOTTOM RIBBONS OF EACH RIBBON STACK ARE SLIT AND SWAPPED.

78-5100-2807-5	A
DRAWING NUMBER	REVISION

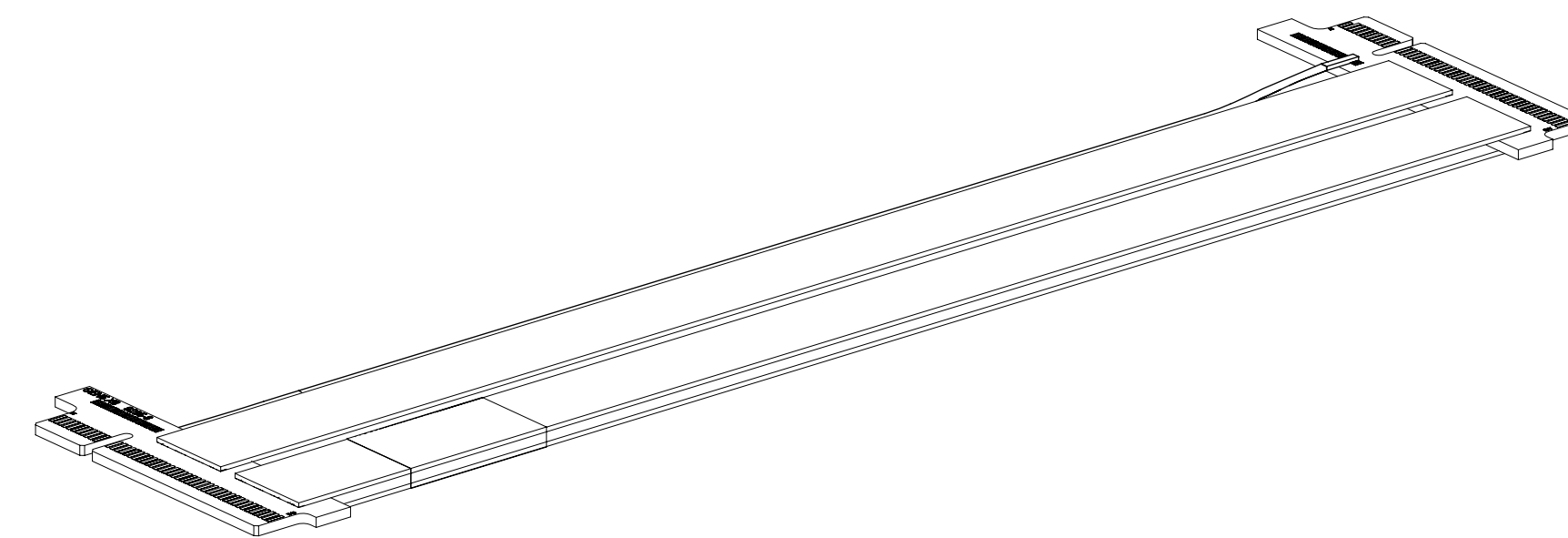
# 3M™ TWIN AXIAL PCI EXPRESS JUMPER CABLE ASSEMBLIES GEN 5.0



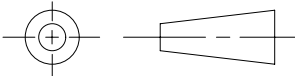
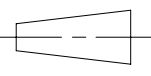
×8 CROSS-OVER VERSION  
ORDERING INFORMATION  
8KF8-0988-XXXX

NOTE:  
NON-STANDARD LENGTHS AVAILABLE UPON REQUEST.  
MAY REQUIRE HIGHER MOQ'S AND LONGER LEAD TIMES.

— STANDARD LENGTHS DIM. "A"  
0250 = [ 250 MM ]  
0500 = [ 500 MM ]



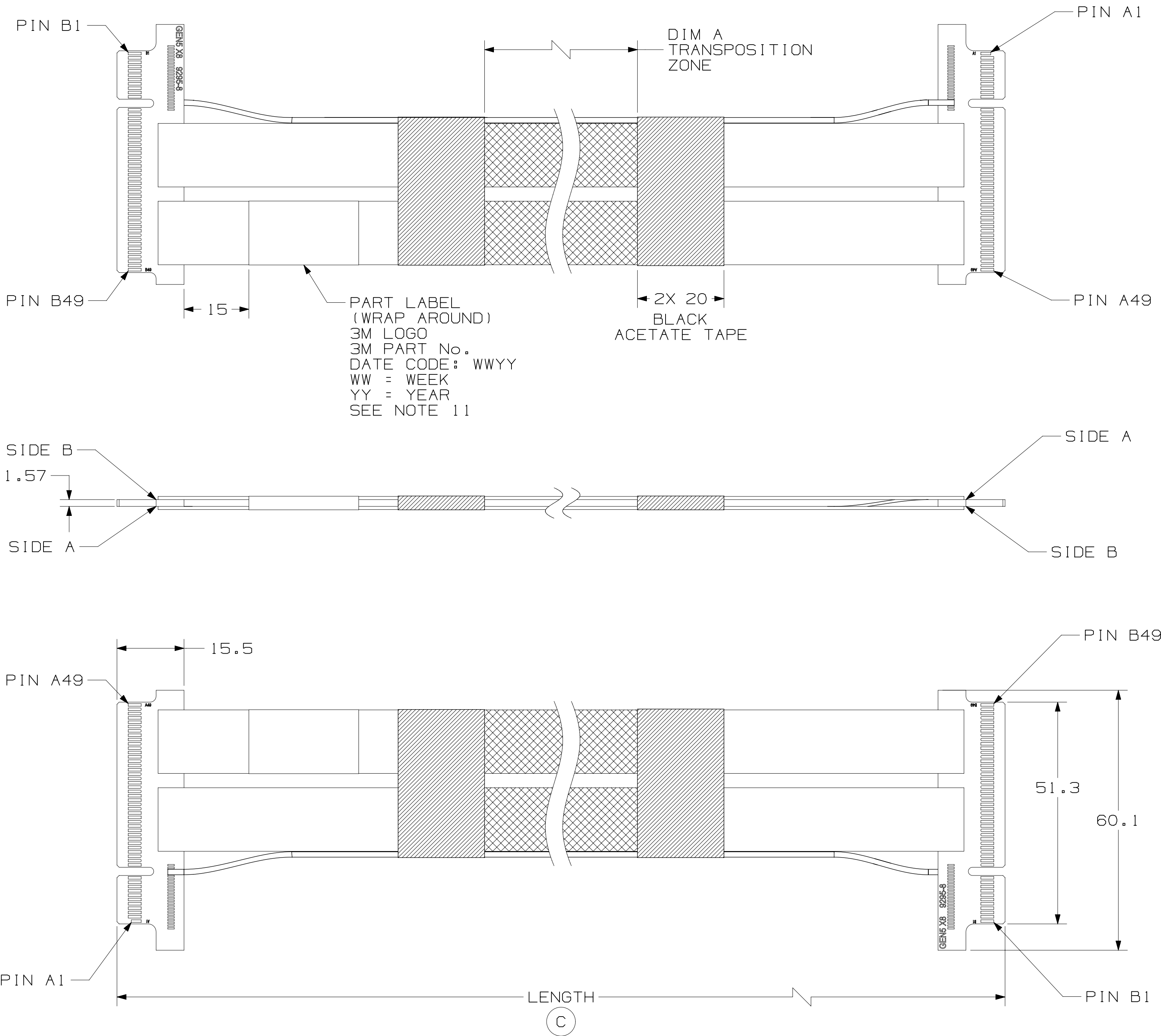
1. DIMENSIONS ARE IN MILLIMETERS.
2. 3M TWIN AXIAL CABLE DESCRIPTION:  
30 AWG, SILVER PLATED SIGNAL WIRE  
IMPEDANCE: 87 ±5 OHM  
OVERALL RIBBON WIDTH: 14.56 MM  
OVERALL RIBBON THICKNESS: 0.74 MM
3. REGULATORY INFORMATION:  
VISIT [3M.com/regs](http://3M.com/regs) OR CONTACT  
YOUR 3M REPRESENTATIVE TO FIND  
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4. 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.
5. PRODUCT SPECIFICATION: PS-0390.
6. FLAMMABILITY RATING  
-TWINAX/AUX RIBBONS: UL94 HB  
HORIZONTAL FLAME  
TEST FOR INTERNAL WIRING  
-PCBS: UL94V-0
7. PADDLECARD PLATING:  
30μ" MIN. GOLD PLATING  
50μ" MIN. NICKEL UNDERPLATING.
8. 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.
9. LENGTH TOLERANCE:  
±5MM FOR LENGTHS LESS THAN 0.5M.  
±8MM FOR LENGTHS 0.5 TO 1.0 METER.
10. (C) DENOTES CRITICAL DIMENSION.
11. LABEL LOCATION MAY VARY ON  
SHORTER CABLE ASSEMBLIES,  
≤ 250 MM.  
LABEL MUST NOT LAY ON TOP  
OF BLACK TAPE.

				A 0120684		JAN 06,2025				GAW		MML			
						PRODUCTION RELEASE									
DESIGN REFERENCE				NEXT ASSEMBLY				ISSUE DATE AND DESCRIPTION				DRFT		CHKD	
APP CODES				REV G WELLS				DATE JAN 06,2025				INFO J G L1U			
				CHKD M LETTANG				DATE JAN 06,2025				APPR M LETTANG			
								DATE JAN 06,2025							
DIVISION				DIVISION CODE				EMSD							
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								INCHES				TITLE			
THIRD ANGLE PROJECTION				INTERPRET PER ASME Y14.5 - 2018				MILLIMETERS				3M PCIE JUMPER CABLE ASSY GEN5			
MAX SURFACE ROUGHNESS				<input type="checkbox"/> MARKED SURFACES				CAGE NUMBER				SIZE DRAWING NO.			
<input checked="" type="checkbox"/> MARKED ONLY				ANGLE				D 78-5100-2807-5				REV. A			
								MODEL GEN 5				DET LISTS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
												SHT 3 OF 6			

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3M™ TWIN AXIAL PCI EXPRESS JUMPER CABLE ASSEMBLIES GEN 5.0

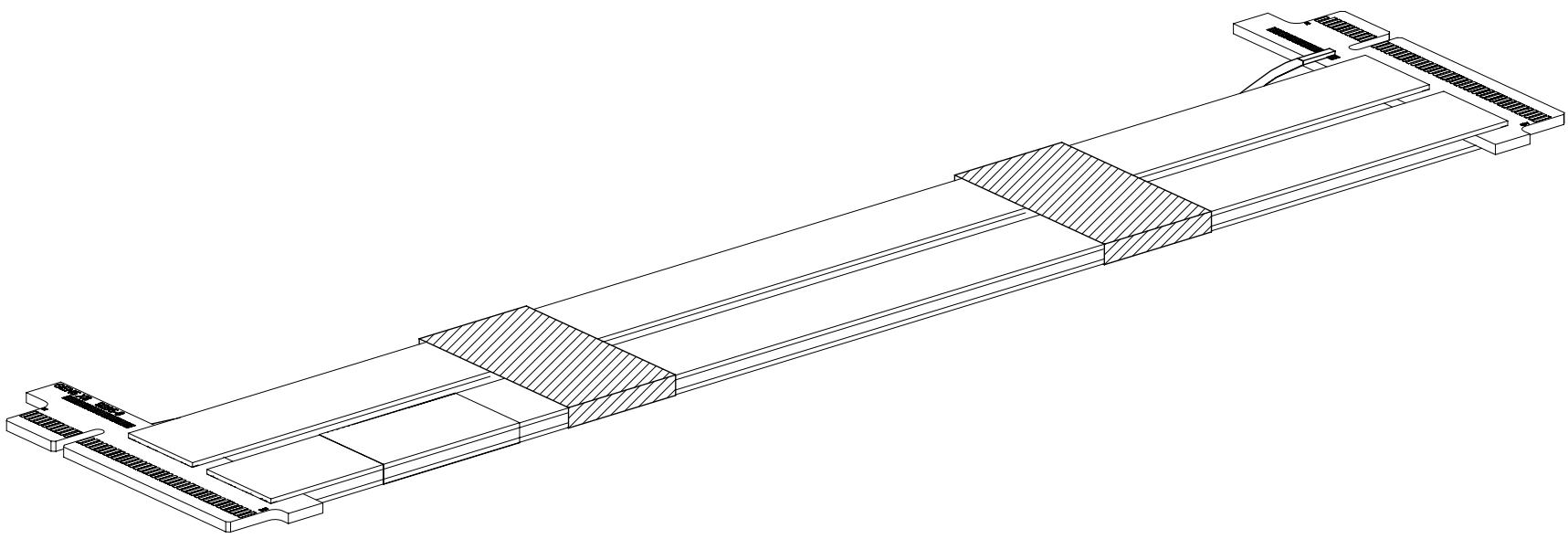


×8 PASS-THRU VERSION  
ORDERING INFORMATION

8KG8-0991L-XXXX

STANDARD LENGTHS DIM. "A"  
0250 = [ 250 MM ]  
0500 = [ 500 MM ]

NOTE:  
NON-STANDARD LENGTHS AVAILABLE UPON REQUEST.  
MAY REQUIRE HIGHER MOQ'S AND LONGER LEAD TIMES.



ASSEMBLY LENGTH	RIBBON TRANSPOSITION ZONE (DIM A)	TAPE WIDTH
0.25 M AND LESS	80 +/- 10 MM	20 +/- 5 MM
> 0.25 M AND < 0.5 M	120 +/- 15 MM	20 +/- 5 MM
0.5 M AND LONGER	160 +/- 20 MM	20 +/- 5 MM

PASS-THRU PINOUT ASSEMBLIES HAVE A RIBBON TRANSPOSITION ZONE, OF LENGTH "A", WHERE THE TOP/BOTTOM RIBBONS OF EACH RIBBON STACK ARE SLIT AND SWAPPED.

- NOTES
- DIMENSIONS ARE IN MILLIMETERS.
  - 3M TWIN AXIAL CABLE DESCRIPTION:  
30 AWG, SILVER PLATED SIGNAL WIRE  
IMPEDANCE: 87 ±5 OHM  
OVERALL RIBBON WIDTH: 14.56 MM  
OVERALL RIBBON THICKNESS: 0.74 MM
  - REGULATORY INFORMATION:  
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YOUR 3M REPRESENTATIVE TO FIND  
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TAPE MAY BE APPLIED TO COVER  
THE ALUMINUM LAYER, AS USER  
DEEMS APPROPRIATE.
  - PRODUCT SPECIFICATION: PS-0390.
  - FLAMMABILITY RATING  
-TWINAX/AUX RIBBONS: UL94 HB  
HORIZONTAL FLAME  
TEST FOR INTERNAL WIRING  
-PCBS: UL94V-0
  - PADDECARD PLATING:  
30μ" MIN. GOLD PLATING  
50μ" MIN. NICKEL UNDERPLATING.
  - UNLESS OTHERWISE NOTED,  
REFERENCES TO INDUSTRY  
SPECIFICATIONS ARE INTENDED  
TO INDICATE SUBSTANTIAL  
COMPLIANCE TO THE MATERIAL  
ELEMENTS OF THE SPECIFICATION.  
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COMPLIANCE TO ALL REQUIREMENTS  
IN A GIVEN SPECIFICATION.
  - LENGTH TOLERANCE:  
±5MM FOR LENGTHS LESS THAN 0.5M.  
±8MM FOR LENGTHS 0.5 TO 1.0 METER.
  - Ⓢ DENOTES CRITICAL DIMENSION.
  - LABEL LOCATION MAY VARY ON  
SHORTER CABLE ASSEMBLIES,  
≤ 250 MM.  
LABEL MUST NOT LAY ON TOP  
OF BLACK TAPE.

A		0120684		JAN 06,2025				GAW		MML					
				PRODUCTION RELEASE											
DESIGN REFERENCE		NEXT ASSEMBLY		REV		ECO		ISSUE DATE AND DESCRIPTION				DRFT		CHKD	
XREF CODES		DIVISION CODE		DATE		DATE		DATE		DATE		DATE		DATE	
		EMSD		G WELLS		JAN 06,2025		J G LIU		JAN 06,2025					
				M LETTANG		JAN 06,2025		M LETTANG		JAN 06,2025					
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED		3M		© 3M COPYRIGHT 2025		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.							
		INCHES		0 ±.00		0 ±.00		0 ±.00		0 ±.00					
THIRD ANGLE PROJECTION		MILLIMETERS		0 ±.0		0 ±.0		0 ±.0		0 ±.0					
INTERPRET PER ASME Y14.5 - 2018				0.00 ±.00		0.00 ±.00		0.00 ±.00		0.00 ±.00					
MAX SURFACE ROUGHNESS		SURFACES		0.00 ±.00		0.00 ±.00		0.00 ±.00		0.00 ±.00					
✓		MARKED ONLY		ANGLES											

3M™ TWIN AXIAL PCI EXPRESS JUMPER CABLE ASSEMBLIES GEN 5.0

X16 PINOUTS

X16 PCIe CROSS-OVER JUMPER PINOUT

PO PINS	PO SIGNAL NAME	PI SIGNAL NAME	PI PINS
A13	REFCLK	REFCLK	A13
A14			A14
A16	Rx00	Tx00	B14
A17			B15
A21	Rx01	Tx01	B19
A22			B20
A25	Rx02	Tx02	B23
A26			B24
A29	Rx03	Tx03	B27
A30			B28
A35	Rx04	Tx04	B33
A36			B34
A39	Rx05	Tx05	B37
A40			B38
A43	Rx06	Tx06	B41
A44			B42
A47	Rx07	Tx07	B45
A48			B46
A52	Rx08	Tx08	B50
A53			B51
A56	Rx09	Tx09	B54
A57			B55
A60	Rx10	Tx10	B58
A61			B59
A64	Rx11	Tx11	B62
A65			B63
A68	Rx12	Tx12	B66
A69			B67
A72	Rx13	Tx13	B70
A73			B71
A76	Rx14	Tx14	B74
A77			B75
A80	Rx15	Tx15	B78
A81			B79

PO PINS	PO SIGNAL NAME	PI SIGNAL NAME	PI PINS
B14	Tx00	Rx00	A16
B15			A17
B19	Tx01	Rx01	A21
B20			A22
B23	Tx02	Rx02	A25
B24			A26
B27	Tx03	Rx03	A29
B28			A30
B33	Tx04	Rx04	A35
B34			A36
B37	Tx05	Rx05	A39
B38			A40
B41	Tx06	Rx06	A43
B42			A44
B45	Tx07	Rx07	A47
B46			A48
B50	Tx08	Rx08	A52
B51			A53
B54	Tx09	Rx09	A56
B55			A57
B58	Tx10	Rx10	A60
B59			A61
B62	Tx11	Rx11	A64
B63			A65
B66	Tx12	Rx12	A68
B67			A69
B70	Tx13	Rx13	A72
B71			A73
B74	Tx14	Rx14	A76
B75			A77
B78	Tx15	Rx15	A80
B79			A81

PINOUT NOTES:  
1. ALL GROUNDS ARE TIED TOGETHER IN PCB'S.  
2. ALL POWER/AUX POSITIONS (NOT SHOWN IN  
PINOUT TABLE) ARE NO-CONNECT BETWEEN THE PCB'S.

X16 PCIe PASS-THRU JUMPER PINOUT

PO PINS	PO SIGNAL NAME	PI SIGNAL NAME	PI PINS
A13	REFCLK	REFCLK	A13
A14			A14
A16	Rx00	Rx00	A16
A17			A17
A21	Rx01	Rx01	A21
A22			A22
A25	Rx02	Rx02	A25
A26			A26
A29	Rx03	Rx03	A29
A30			A30
A35	Rx04	Rx04	A35
A36			A36
A39	Rx05	Rx05	A39
A40			A40
A43	Rx06	Rx06	A43
A44			A44
A47	Rx07	Rx07	A47
A48			A48
A52	Rx08	Rx08	A52
A53			A53
A56	Rx09	Rx09	A56
A57			A57
A60	Rx10	Rx10	A60
A61			A61
A64	Rx11	Rx11	A64
A65			A65
A68	Rx12	Rx12	A68
A69			A69
A72	Rx13	Rx13	A72
A73			A73
A76	Rx14	Rx14	A76
A77			A77
A80	Rx15	Rx15	A80
A81			A81

PINOUT NOTES:  
1. ALL GROUNDS ARE TIED TOGETHER IN PCB'S.  
2. ALL POWER/AUX POSITIONS (NOT SHOWN IN  
PINOUT TABLE) ARE NO-CONNECT BETWEEN THE PCB'S.

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
XREF CODES		DIVISION CODE		DRP	DATE		DATE		DATE
		EMSD		G	JAN 06,2025		J G LIU		JAN 06,2025
				CHKD	M LETTANG		M LETTANG		M LETTANG
DIVISION		SCALE		TOLERANCES EXCEPT AS NOTED		TITLE			
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION		INCHES		3M PCIE JUMPER CABLE ASSY GEN5			
				MILLIMETERS		CAGE NUMBER			
				MAX SURFACE ROUGHNESS		D 78-5100-2807-5			
				MARKED ONLY		REV. A			
						SHT 5 OF 6			



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Electronics Materials Solutions Division  
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Austin, TX 78753-5380  
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A		0120684		JAN 06,2025		GAW		MML			
REV		ECO		ISSUE DATE AND DESCRIPTION				DRFT		CHKD	
DESIGN REFERENCE		NEXT ASSEMBLY		PRODUCTION RELEASE							
XREF CODES		DIVISION CODE		DATE		DATE		DATE		DATE	
DIVISION		EMSD		G WELLS		JAN 06,2025		J G LIU		JAN 06,2025	
DO NOT SCALE DRAWING		SCALE		CHKD		M LETTANG		APPRV		DATE	
THIRD ANGLE PROJECTION		TOLERANCES EXCEPT AS NOTED		JAN 06,2025		JAN 06,2025		JAN 06,2025		JAN 06,2025	
INTERPRET PER ASME Y14.5 - 2018		INCHES		0		±1		0		±1	
MAX SURFACE ROUGHNESS		MILLIMETERS		0		±1		0		±1	
SURFACES		0		±0.5		±0.05		±0.005		±0.005	
MARKED ONLY		0		±0.5		±0.05		±0.005		±0.005	
CAGE NUMBER		SIZE		DRAWING NO.		REV.		CAGE NUMBER		REV.	
D		GEN 5		78-5100-2807-5		A		D		A	
MODEL		GEN 5		DET		YES		NO		SHT 6 OF 6	