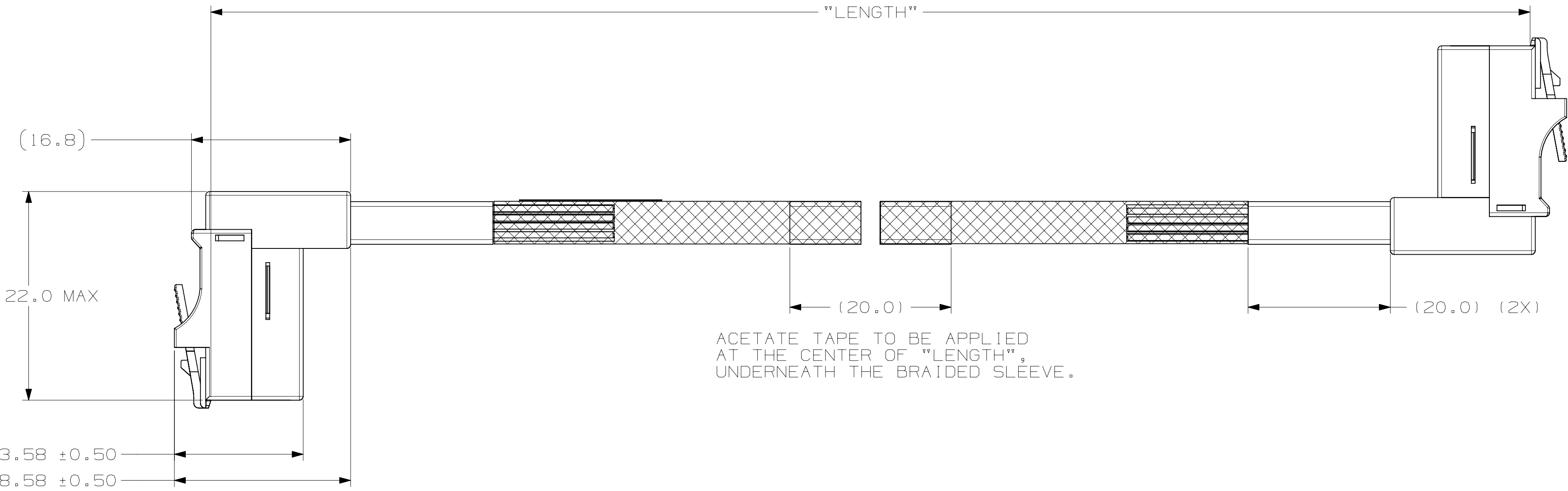
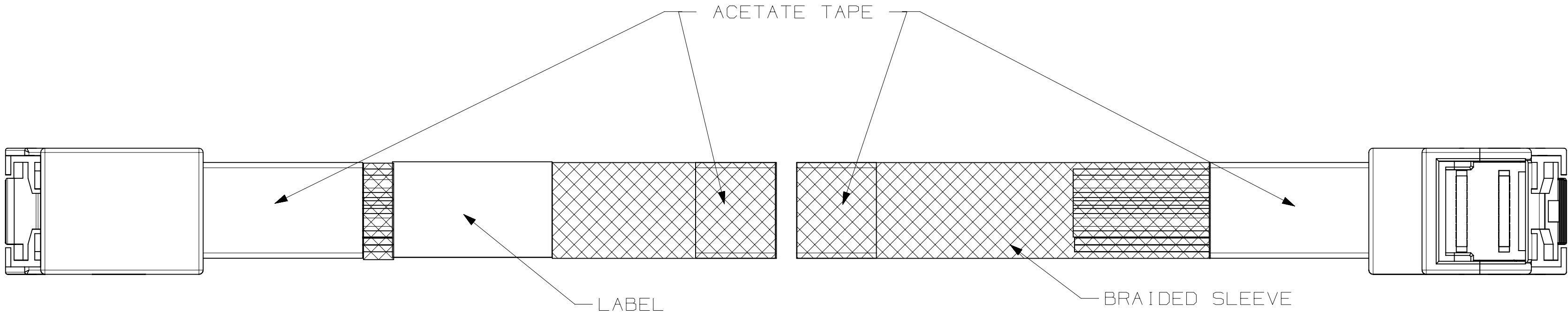
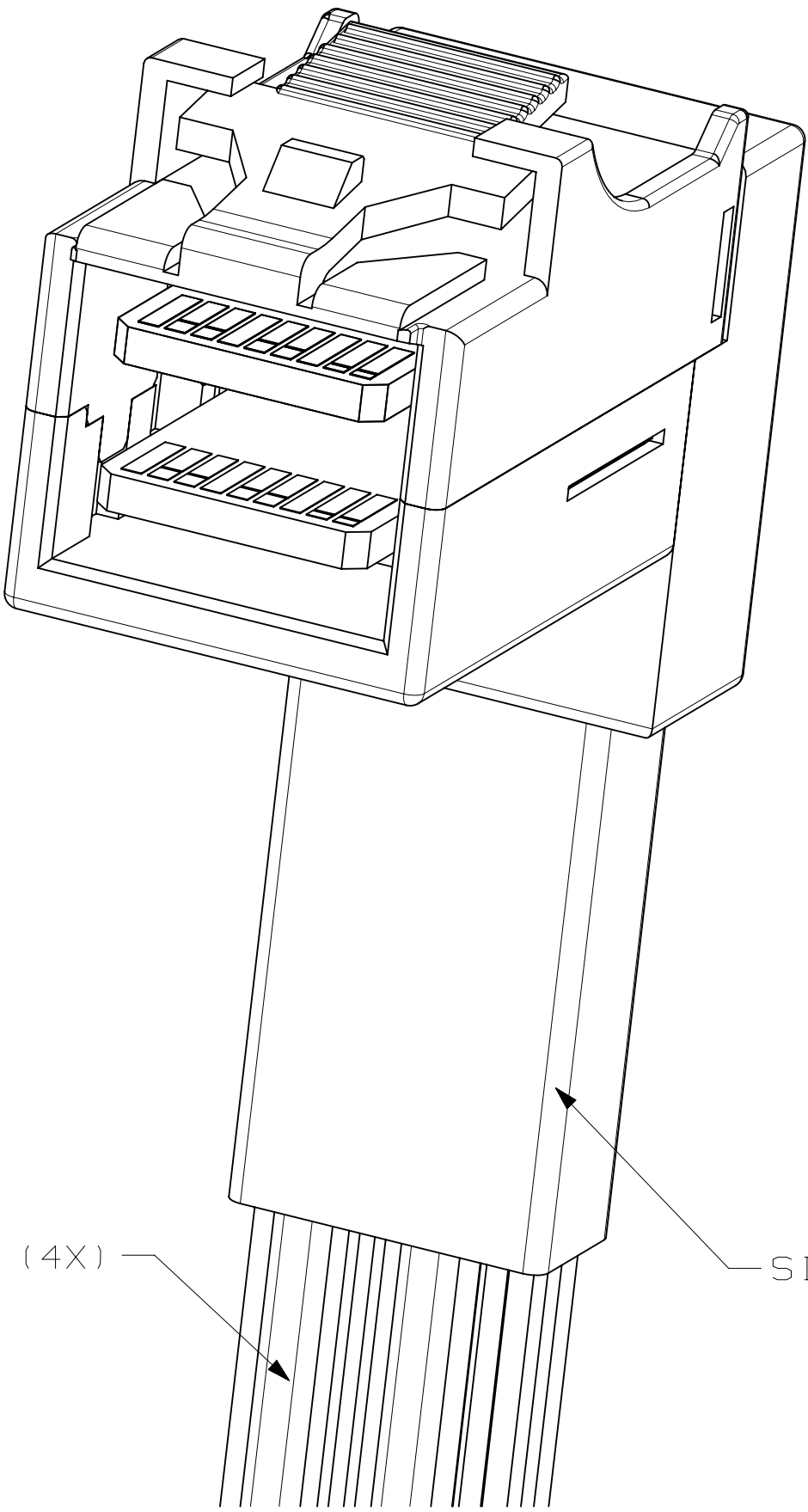
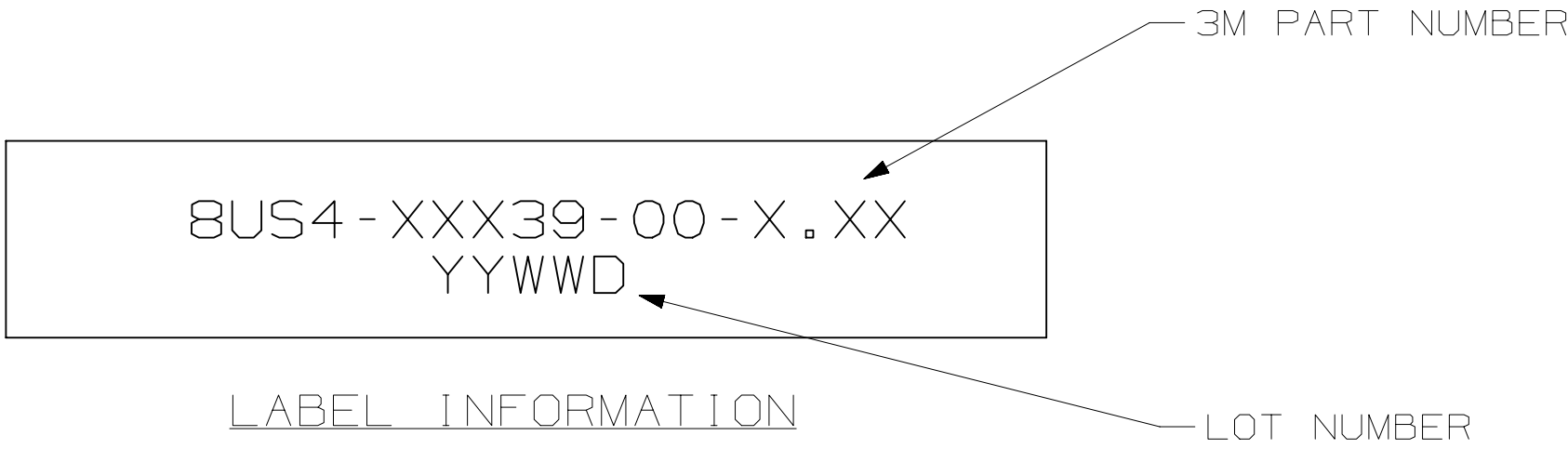


3M™ HIGH ROUTABILITY INTERNAL MINISAS HD CABLE ASSEMBLIES, 8U SERIES

RIGHT-ANGLE - TO - RIGHT-ANGLE INTERNAL MINISAS HD CABLE ASSEMBLY



ACETATE TAPE TO BE APPLIED AT THE CENTER OF "LENGTH", UNDERNEATH THE BRAIDED SLEEVE.



DESIGN REFERENCE		NEXT ASSEMBLY		A 0060617		OCT 17, 2014		KHL	SB
DISTRIBUTION CODES				REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
				DRP	KOK HOE LEE	DATE	OCT 17, 2014	MFG	DATE
				CHKD	YUNLONG QIAO	DATE	OCT 17, 2014	APPRV	SAUJIT BANDHU
DIVISION		DESIGN CODE		© 3M COPYRIGHT 2015					
DO NOT SCALE DRAWING		SCALE 1/1		TOLERANCES EXCEPT AS NOTED		3M Center St. Paul, MN 55144			
THIRD ANGLE PROJECTION		INCHES		MILLIMETERS		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.			
INTERPRET PER ASME Y14.5 - 1994		MAX SURFACE ROUGHNESS 125/		ALL SURFACES MARKED ONLY		TITLE INTERNAL MINISAS HD CABLE ASSEMBLY RIGHT-ANGLE CONNECTOR			
						CAGE NUMBER D		DRAWING NO. 78-5100-2651-7	
						MODEL		REV. A	
								SHT 1 OF 4	

RIGHT-ANGLE - TO - RIGHT-ANGLE INTERNAL MINISAS HD CABLE ASSEMBLY

3M PART NUMBERING SCHEME

8US4 - XXX 39 - 00 - X.XX

"LENGTH" IN METERS

"LENGTH" TOLERANCE

±10MM FOR "LENGTH" 0.5 METER MAX
±15MM FOR "LENGTH" MORE THAN 0.5 METER

TABLE 1: DESCRIPTION FOR "XXX"

XXX	PINOUT	BRAIDED SLEEVE
AA1	STD MINISAS HD 4i WITH SIDEBANDS (SEE TABLE 2)	YES
AA2	STD MINISAS HD 4i WITH SIDEBANDS (SEE TABLE 2)	NO
CB1	MINISAS HD 4i WITHOUT SIDEBANDS (SEE TABLE 3)	YES
CB2	MINISAS HD 4i WITHOUT SIDEBANDS (SEE TABLE 3)	NO

NOTES

1. MATERIALS:

HOUSING: THERMOPLASTIC

INNERMOULD: THERMOPLASTIC

3M™ TWIN AXIAL CABLE:
CONDUCTORS: SOLID COPPER, Ag-PLATED SIGNALS
INSULATOR: POLYOLEFIN
SHIELDING: ALUMINIUM LAYER

SIDEBAND CABLE:
CONDUCTORS: SOLID COPPER
INSULATOR: THERMOPLASTIC ELASTOMER

PCB: LOW DIELECTRIC CONSTANT MATERIAL
FOR HIGH SPEED APPLICATION

BRAIDED SLEEVE: THERMOPLASTIC

2. ROHS COMPLIANT. SEE REGULATORY INFORMATION
APPENDIX IN "ROHS COMPLIANCE" SECTION AT
WWW.3M.COM/INTERCONNECT (E1 & C1 APPLY)

3. 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.

4. PRODUCT SPECIFICATION: 78-5102-0200-1

WIRING DIAGRAMS

PINOUT 1				
P1			P2	
POSITION	SYMBOL		SYMBOL	POSITION
D9	GROUND	—	GROUND	B9
D8	Tx2-	→	Rx2-	B8
D7	Tx2+	→	Rx2+	B7
D6	GROUND	—	GROUND	B6
D5	Tx0-	→	Rx0-	B5
D4	Tx0+	→	Rx0+	B4
D3	GROUND	—	GROUND	B3
D2	SIDEBAND 6	↔	SIDEBAND 5	D1
D1	SIDEBAND 5	↔	SIDEBAND 6	D2
C1	SIDEBAND 4	↔	SIDEBAND 2	C2
C2	SIDEBAND 2	↔	SIDEBAND 4	C1
C3	GROUND	—	GROUND	A3
C4	Tx1+	→	Rx1+	A4
C5	Tx1-	→	Rx1-	A5
C6	GROUND	—	GROUND	A6
C7	Tx3+	→	Rx3+	A7
C8	Tx3-	→	Rx3-	A8
C9	GROUND	—	GROUND	A9
B9	GROUND	—	GROUND	D9
B8	Rx2-	←	Tx2-	D8
B7	Rx2+	←	Tx2+	D7
B6	GROUND	—	GROUND	D6
B5	Rx0-	←	Tx0-	D5
B4	Rx0+	←	Tx0+	D4
B3	GROUND	—	GROUND	D3
B2	SIDEBAND 1	↔	SIDEBAND 3	B1
B1	SIDEBAND 3	↔	SIDEBAND 1	B2
A1	SIDEBAND 7	↔	SIDEBAND 0	A2
A2	SIDEBAND 0	↔	SIDEBAND 7	A1
A3	GROUND	—	GROUND	C3
A4	Rx1+	←	Tx1+	C4
A5	Rx1-	←	Tx1-	C5
A6	GROUND	—	GROUND	C6
A7	Rx3+	←	Tx3+	C7
A8	Rx3-	←	Tx3-	C8
A9	GROUND	—	GROUND	C9

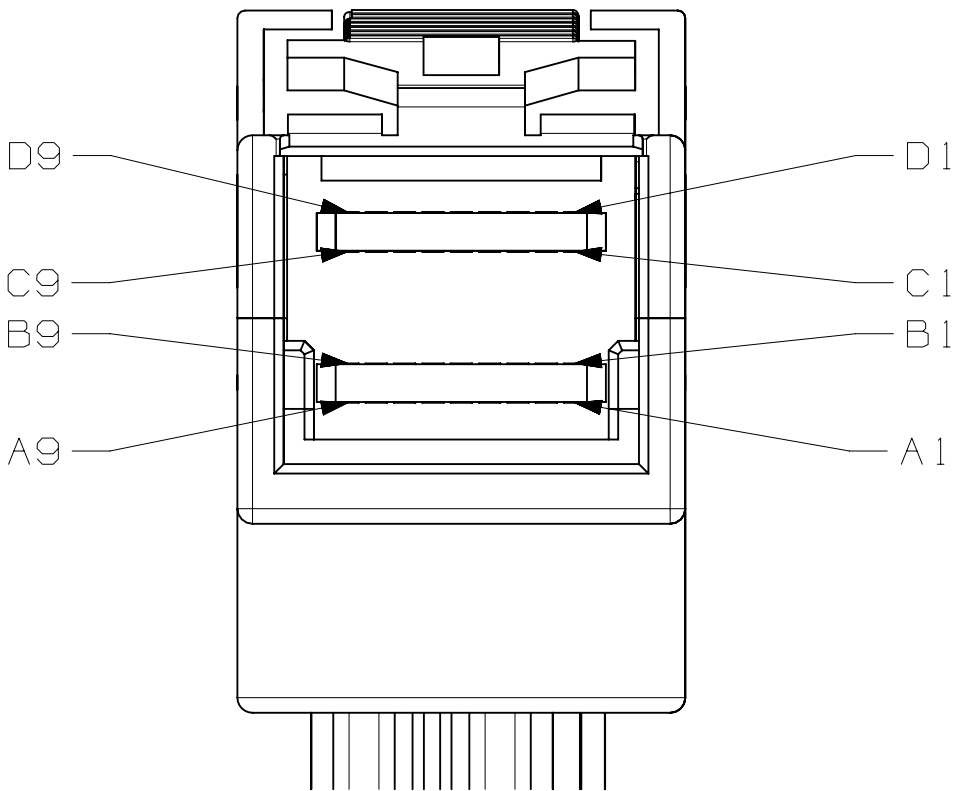
SYMBOLS				
→	←	HIGH SPEED SERIAL DIFFERENTIAL PAIRS		
→	←			
—	—	SIGNAL RETURN		
↔	↔	POWER AND MANAGEMENT INTERFACE		

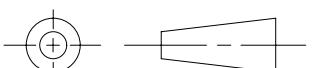
TABLE 2: WITH SIDEBANDS

PINOUT 2				
P1			P2	
POSITION	SYMBOL		SYMBOL	POSITION
D9	GROUND	—	GROUND	B9
D8	Tx2-	→	Rx2-	B8
D7	Tx2+	→	Rx2+	B7
D6	GROUND	—	GROUND	B6
D5	Tx0-	→	Rx0-	B5
D4	Tx0+	→	Rx0+	B4
D3	GROUND	—	GROUND	B3
C3	GROUND	—	GROUND	A3
C4	Tx1+	→	Rx1+	A4
C5	Tx1-	→	Rx1-	A5
C6	GROUND	—	GROUND	A6
C7	Tx3+	→	Rx3+	A7
C8	Tx3-	→	Rx3-	A8
C9	GROUND	—	GROUND	A9
B9	GROUND	—	GROUND	D9
B8	Rx2-	←	Tx2-	D8
B7	Rx2+	←	Tx2+	D7
B6	GROUND	—	GROUND	D6
B5	Rx0-	←	Tx0-	D5
B4	Rx0+	←	Tx0+	D4
B3	GROUND	—	GROUND	D3
A3	GROUND	—	GROUND	C3
A4	Rx1+	←	Tx1+	C4
A5	Rx1-	←	Tx1-	C5
A6	GROUND	—	GROUND	C6
A7	Rx3+	←	Tx3+	C7
A8	Rx3-	←	Tx3-	C8
A9	GROUND	—	GROUND	C9

SYMBOLS				
→	←	HIGH SPEED SERIAL DIFFERENTIAL PAIRS		
→	←			
—	—	SIGNAL RETURN		
↔	↔	POWER AND MANAGEMENT INTERFACE		

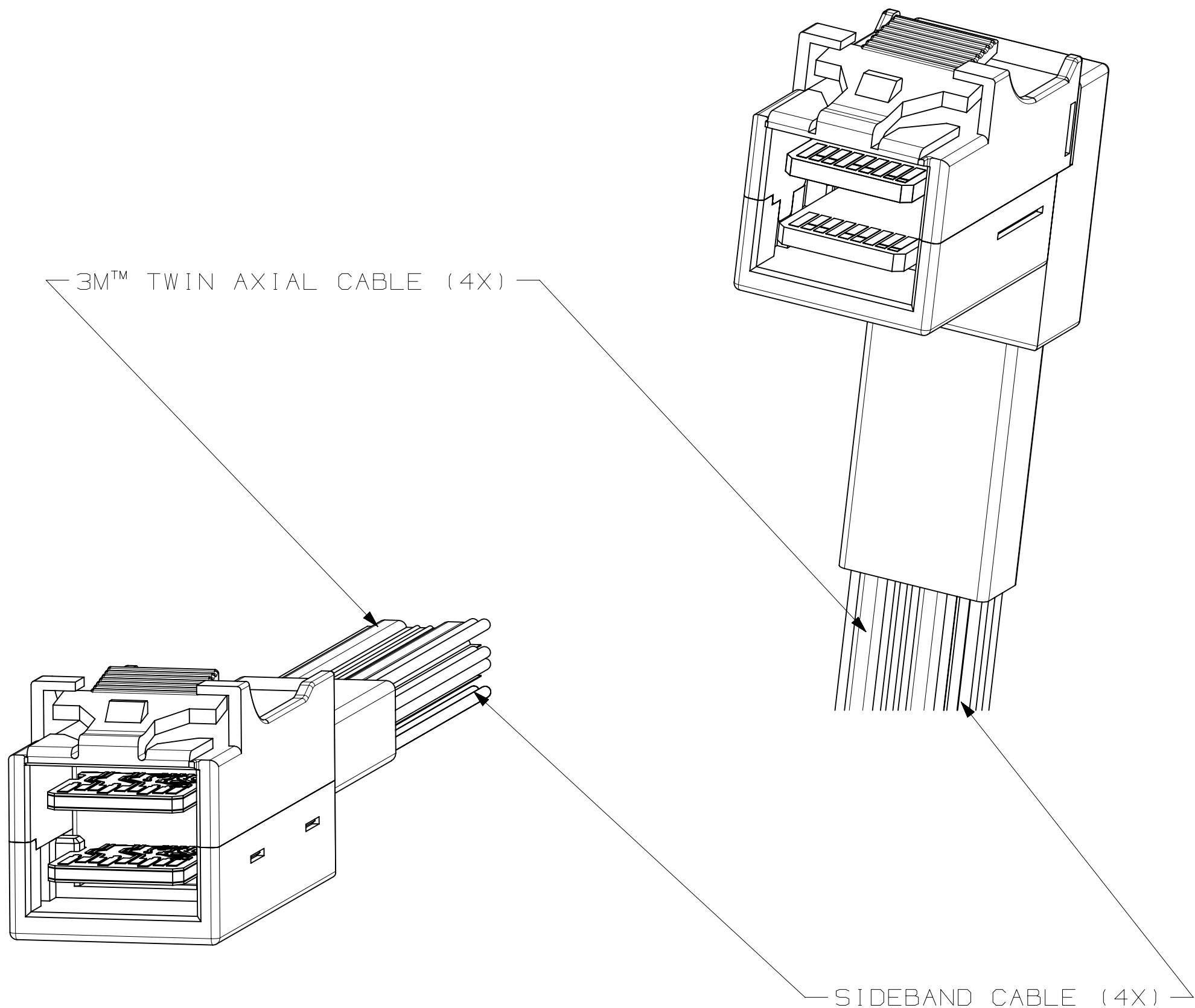
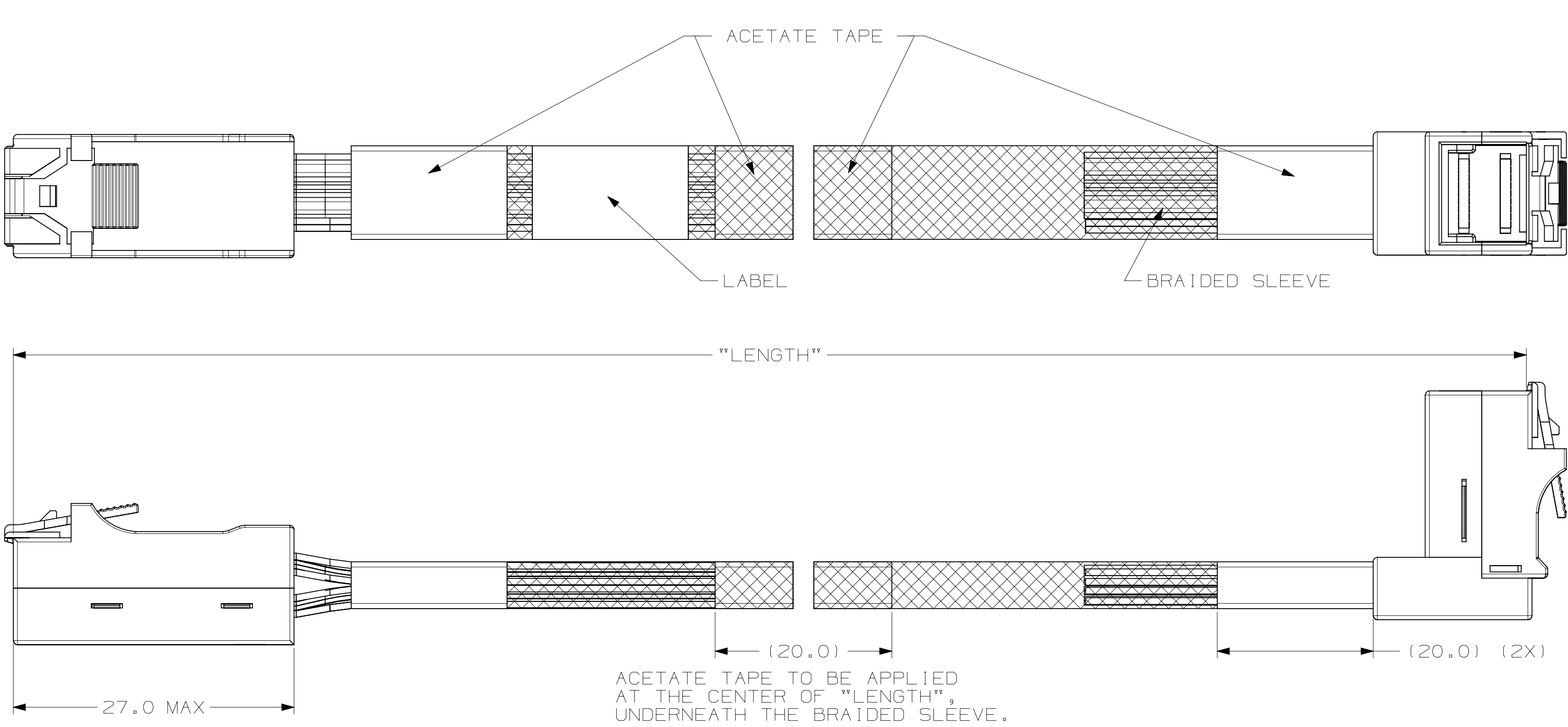
TABLE 3: WITHOUT SIDEBANDS



DESIGN REFERENCE		NEXT ASSEMBLY		A 0060617		OCT 17, 2014		KHL	SB		
REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD	DATE					
DIST	KOK	HOE LEE		OCT 17, 2014	MFG	DATE					
CHD	YUNLONG	QIAO	DATE	OCT 17, 2014	SAUJIT BANDHU	DATE	OCT 17, 2014				
DIVISION		DESIGN CODE		© 3M COPYRIGHT 2015		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.					
DO NOT SCALE DRAWING		SCALE 1/1		TOLERANCES EXCEPT AS NOTED							
		THIRD ANGLE PROJECTION		INCHES .00 ± .005 ± .0000 ±		TITLE INTERNAL MINISAS HD CABLE ASSEMBLY RIGHT-ANGLE CONNECTOR					
INTERPRET PER ASME Y14.5 - 1994		MILLIMETERS 0 ± .1 .00 ± .05 .000 ± .005									
MAX SURFACE ROUGHNESS 125/		ALL SURFACES		ANGLES ±1°		CAGE NUMBER D		SIZE DRAWING NO. 78-5100-2651-7		REV. A	
☒ MARKED ONLY						MODEL		DET. LISTS		YES ☒ NO	SHT 2 OF 4

3M™ HIGH ROUTABILITY INTERNAL MINISAS HD CABLE ASSEMBLIES, 8U SERIES

RIGHT-ANGLE - TO - STANDARD INTERNAL MINISAS HD CABLE ASSEMBLY



NOTES

1. FOR DETAILS ON RIGHT-ANGLE INTERNAL MINISAS HD CABLE ASSEMBLY, REFER TO SHEET 1 AND 2.
2. FOR DETAILS ON STANDARD INTERNAL MINISAS HD CABLE ASSEMBLY, REFER TO DRAWING NO. 78-5100-2555-0.

3M PART NUMBERING SCHEME

BUS4 - XXX 49 - 00 - X.XX

"LENGTH" IN METERS

"LENGTH" TOLERANCE

±10MM FOR "LENGTH" 0.5 METER MAX
±15MM FOR "LENGTH" MORE THAN 0.5 METER

TABLE 4: DESCRIPTION FOR "XXX"

XXX	PINOUT	BRAIDED SLEEVE
AA1	STD MINISAS HD 4i WITH SIDEBANDS (SEE TABLE 2)	YES
AA2	STD MINISAS HD 4i WITH SIDEBANDS (SEE TABLE 2)	NO
CB1	MINISAS HD 4i WITHOUT SIDEBANDS (SEE TABLE 3)	YES
CB2	MINISAS HD 4i WITHOUT SIDEBANDS (SEE TABLE 3)	NO

BUS4-XXX49-00-X.XX
YYWW

LABEL INFORMATION

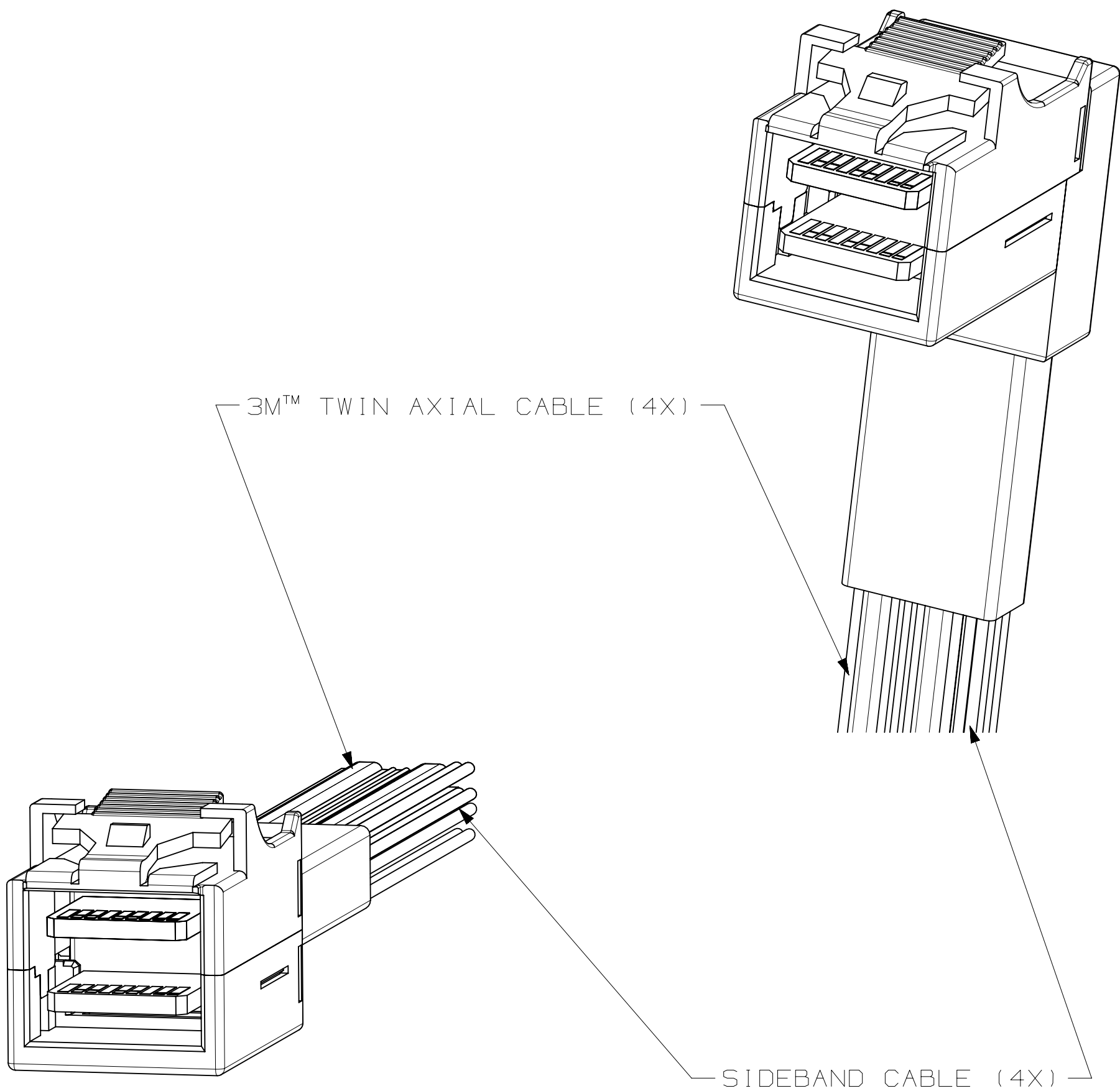
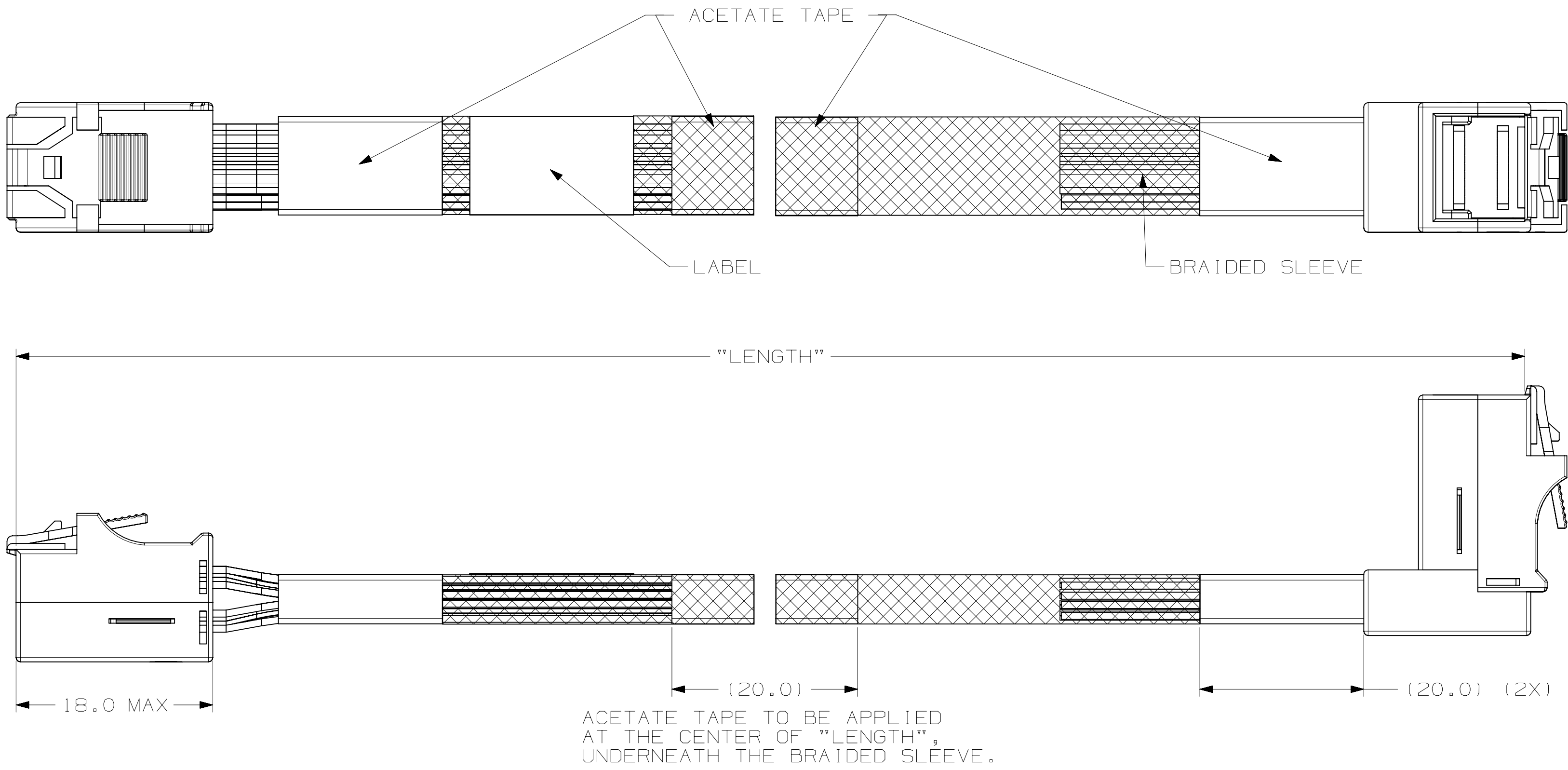
3M PART NUMBER

LOT NUMBER

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	OCT 17, 2014		KHL	SB
DISTRIBUTION CODES		DISTRIBUTION CODES		DRF	KOK HOE LEE	DATE	OCT 17, 2014	DRFT	CHKD
DIVISION		DIVISION CODE		CHD	YUNLONG QIAO	DATE	OCT 17, 2014	REV	SAUJIT BANDHU
DO NOT SCALE DRAWING		SCALE 1/1		TOLERANCES EXCEPT AS NOTED		INCHES		MILLIMETERS	
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 1994		MAX SURFACE ROUGHNESS		125/		ALL SURFACES MARKED ONLY	
ANGLES ±1°		CAGE NUMBER		DRAWING NO.		REV.		MODEL	
ANGLES ±1°		D		78-5100-2651-7		A		DET	
ANGLES ±1°		LISTS		YES		NO		SHT 3 OF 4	

3M™ HIGH ROUTABILITY INTERNAL MINISAS HD CABLE ASSEMBLIES, 8U SERIES

RIGHT-ANGLE - TO - SHORTENED INTERNAL MINISAS HD CABLE ASSEMBLY



NOTES

1. FOR DETAILS ON RIGHT-ANGLE INTERNAL MINISAS HD CABLE ASSEMBLY, REFER TO SHEET 1 AND 2.
2. FOR DETAILS ON SHORTENED INTERNAL MINISAS HD CABLE ASSEMBLY, REFER TO DRAWING NO. 78-5100-2658-2.

3M PART NUMBERING SCHEME

8US4 - XXX 59 - 00 - X.XX

"LENGTH" IN METERS

"LENGTH" TOLERANCE

±10MM FOR "LENGTH" 0.5 METER MAX
±15MM FOR "LENGTH" MORE THAN 0.5 METER

TABLE 5: DESCRIPTION FOR "XXX"

XXX	PINOUT	BRAIDED SLEEVE
AA1	STD MINISAS HD 4i WITH SIDEBANDS (SEE TABLE 2)	YES
AA2	STD MINISAS HD 4i WITH SIDEBANDS (SEE TABLE 2)	NO
CB1	MINISAS HD 4i WITHOUT SIDEBANDS (SEE TABLE 3)	YES
CB2	MINISAS HD 4i WITHOUT SIDEBANDS (SEE TABLE 3)	NO

8US4-XXX59-00-X.XX
YYWWD

LABEL INFORMATION

3M PART NUMBER

LOT NUMBER

DESIGN REFERENCE		NEXT ASSEMBLY		A 0060617		OCT 17, 2014		KHL		SB	
REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT		CHKD			
DISTRIBUTION CODES				KOK HOE LEE		OCT 17, 2014		INFO		DATE	
CHD		YUNLONG QIAO		DATE		OCT 17, 2014		APPR		SAJJU BANDHU	
DATE								DATE		OCT 17, 2014	
DIVISION		DIVISION CODE				3M Center St. Paul, MN 55144		© 3M COPYRIGHT 2015			
DO NOT SCALE DRAWING		SCALE 1/1						This document and the information it contains are 3M property and may not be reproduced or further distributed without written permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.			
TOLERANCES EXCEPT AS NOTED											
INCHES		MILLIMETERS		TITLE		INTERNAL MINISAS HD CABLE ASSEMBLY RIGHT-ANGLE CONNECTOR					
0.000 ±		0 ±.1									
0.000 ±		0 ±.05									
0.000 ±		0 ±.005		CAGE NUMBER		SIZE		DRAWING NO.		REV.	
125/		ALL SURFACES		D		78-5100-2651-7		A			
MAX SURFACE ROUGHNESS		MARKED ONLY		MODEL		DET		LISTS		YES	
								YES		NO	
								SHT		4 OF 4	



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
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- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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