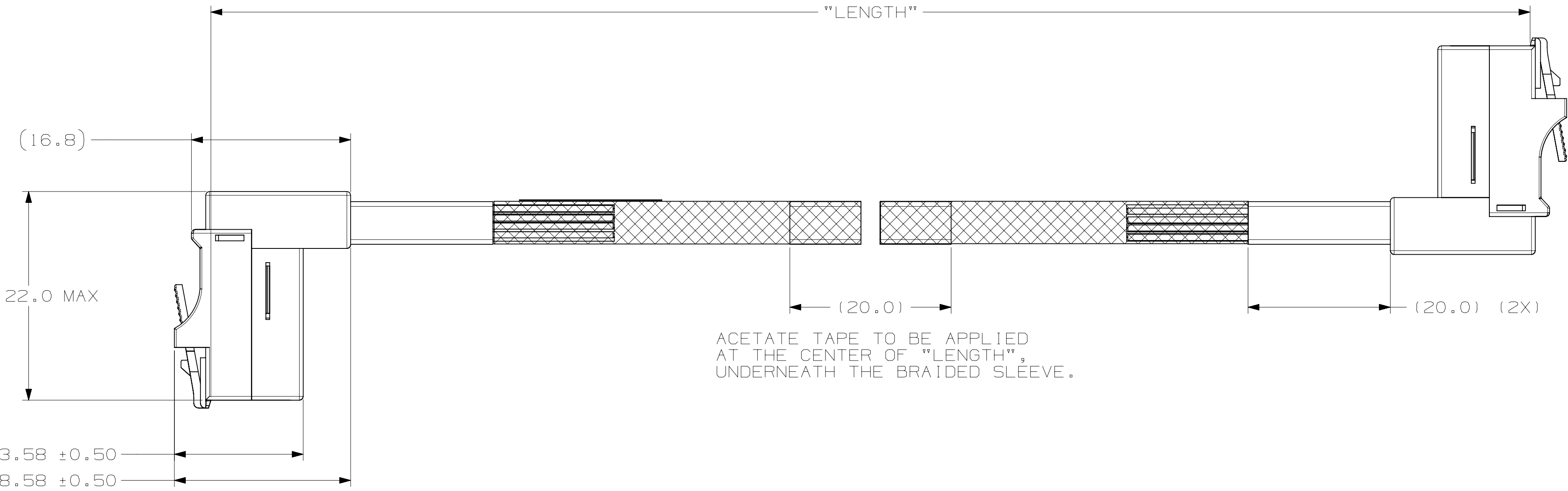
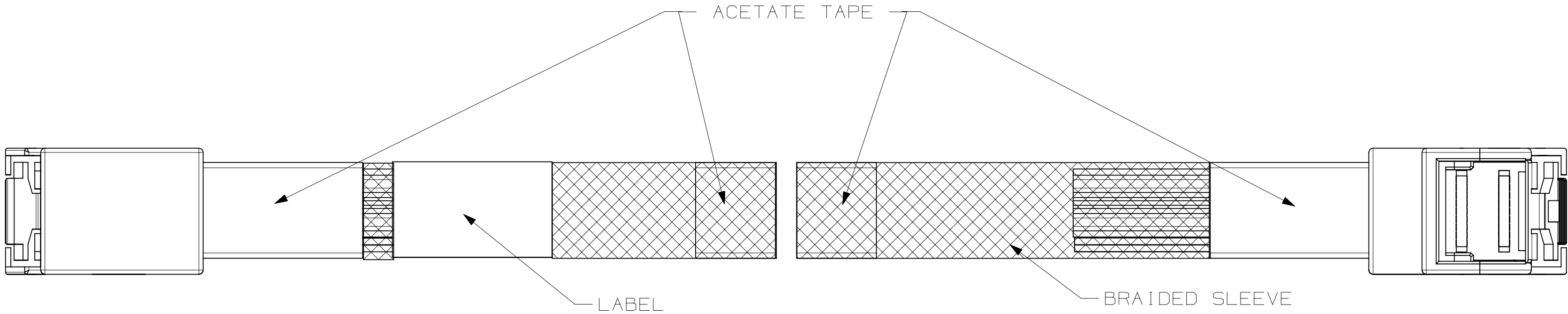
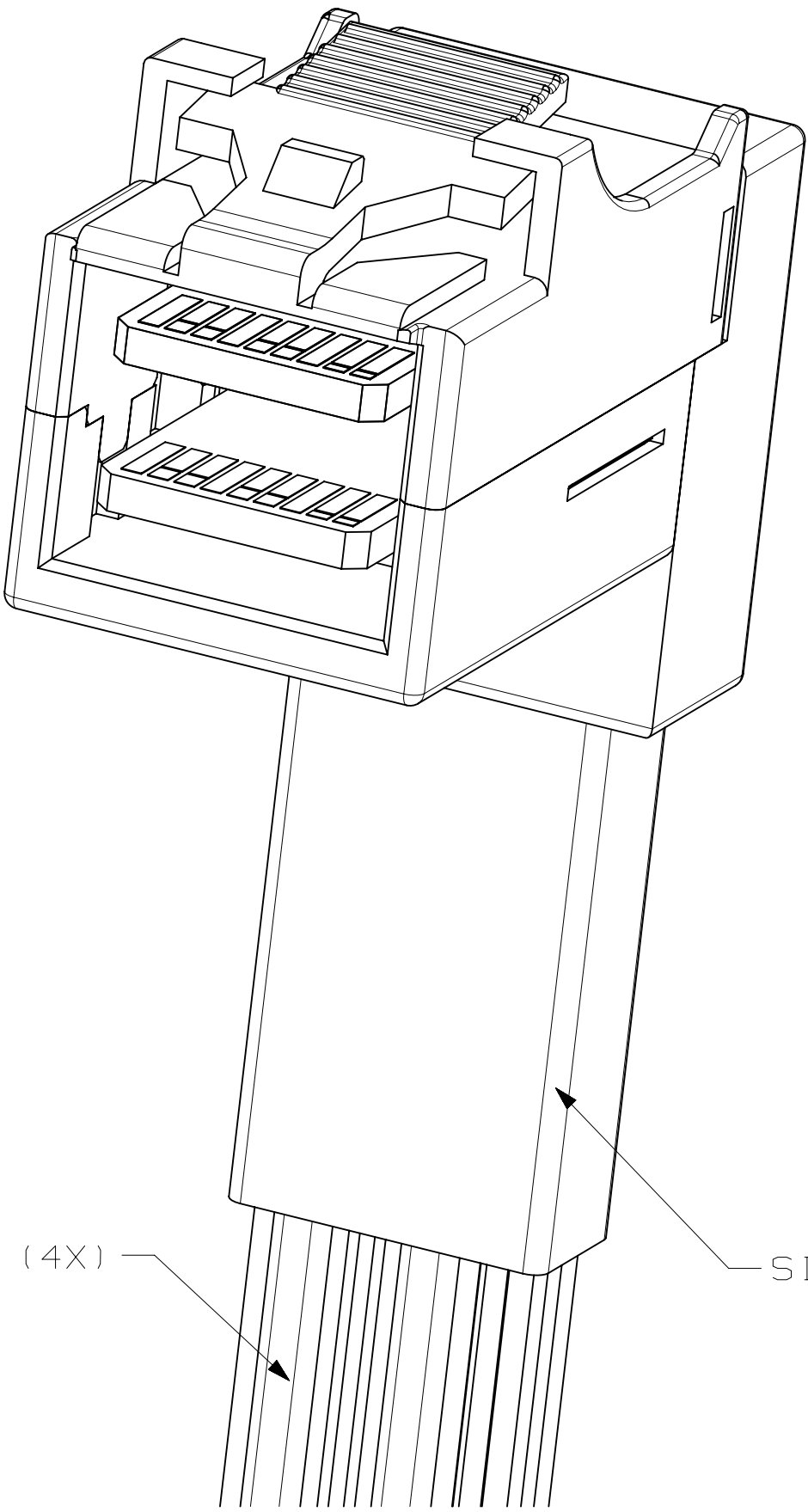
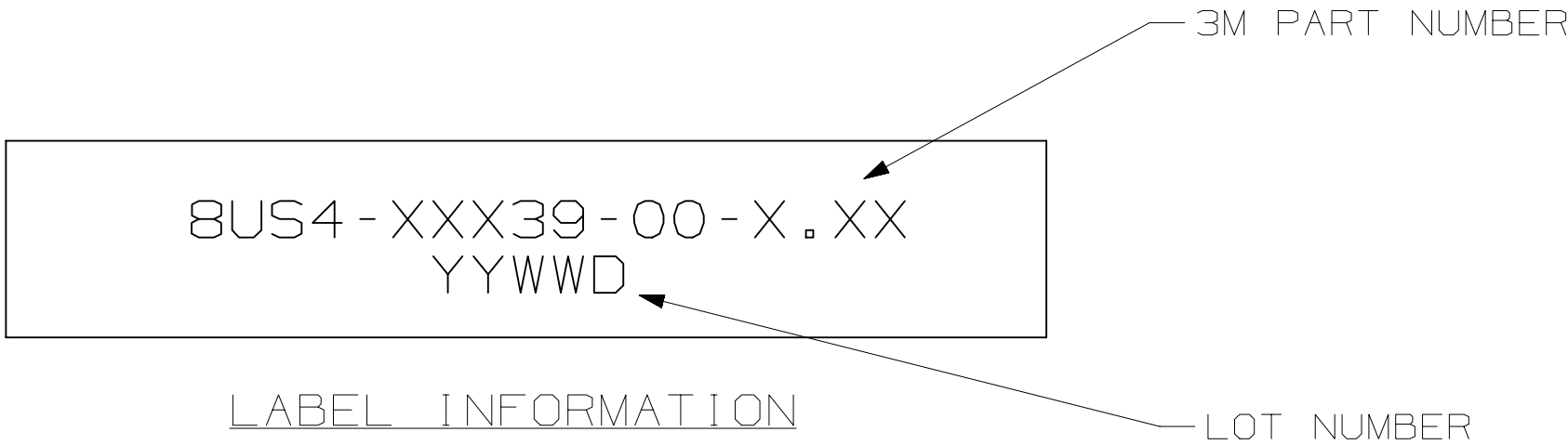


3M™ HIGH ROUTABILITY INTERNAL MINISAS HD CABLE ASSEMBLIES, 8U SERIES

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		.00 ±.000 ±.0000 ±		0 ±.1		TITLE			
MAX SURFACE ROUGHNESS 125/		.00 ±.005		.000 ±.005		INTERNAL MINISAS HD CABLE ASSEMBLY RIGHT-ANGLE CONNECTOR			
ALL SURFACES MARKED ONLY		ANGLES ±1°		CAGE NUMBER		DRAWING NO.		REV.	
				MODEL		D 78-5100-2651-7		A	
						DET		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

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	SIDE BAND	6	↔	SIDE BAND	5	D1	
D1	SIDE BAND	5	↔	SIDE BAND	6	D2	
C1	SIDE BAND	4	↔	SIDE BAND	2	C2	
C2	SIDE BAND	2	↔	SIDE BAND	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 -		B8	
B7	Rx2+		←	Tx2+		D7	
B6	GROUND		—	GROUND		D6	
B5	Rx0 -		←	Tx0 -		D5	
B4	Rx0+		←	Tx0+		D4	
B3	GROUND		—	GROUND		D3	
B2	SIDE BAND	1	↔	SIDE BAND	3	B1	
B1	SIDE BAND	3	↔	SIDE BAND	1	B2	
A1	SIDE BAND	7	↔	SIDE BAND	0	A2	
A2	SIDE BAND	0	↔	SIDE BAND	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	

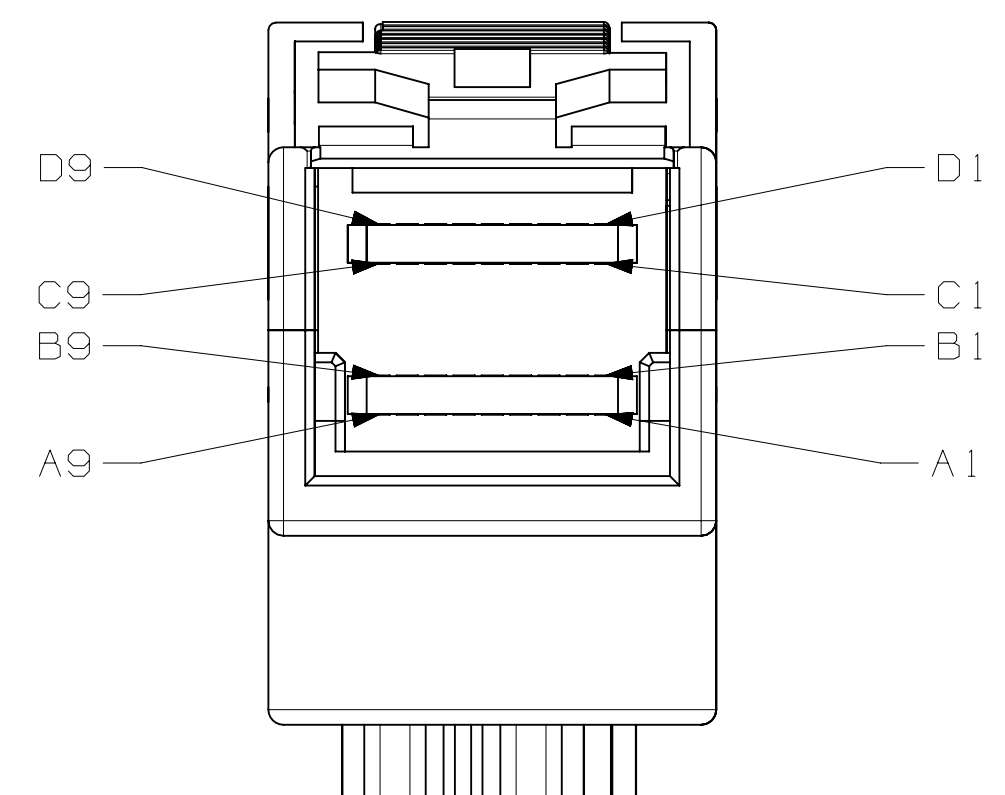
SYMBOLS			
→	←	HIGH SPEED SERIAL DIFFERENTIAL PAIRS	
→	←		
—		SIGNAL RETURN	
↔			
		POWER AND MANAGEMENT INTERFACE	

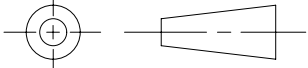
TABLE 2: WITH SIDEBANDS

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

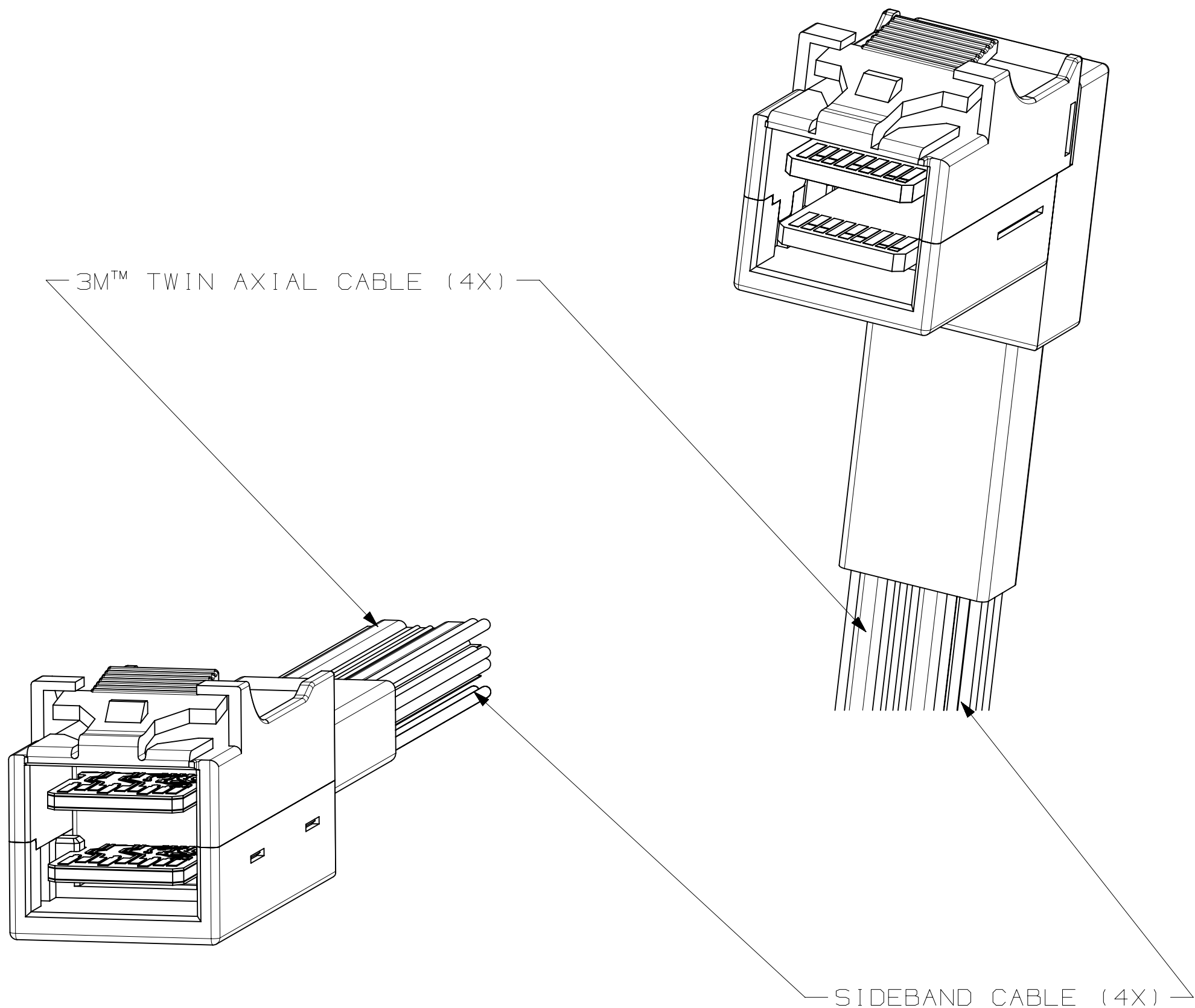
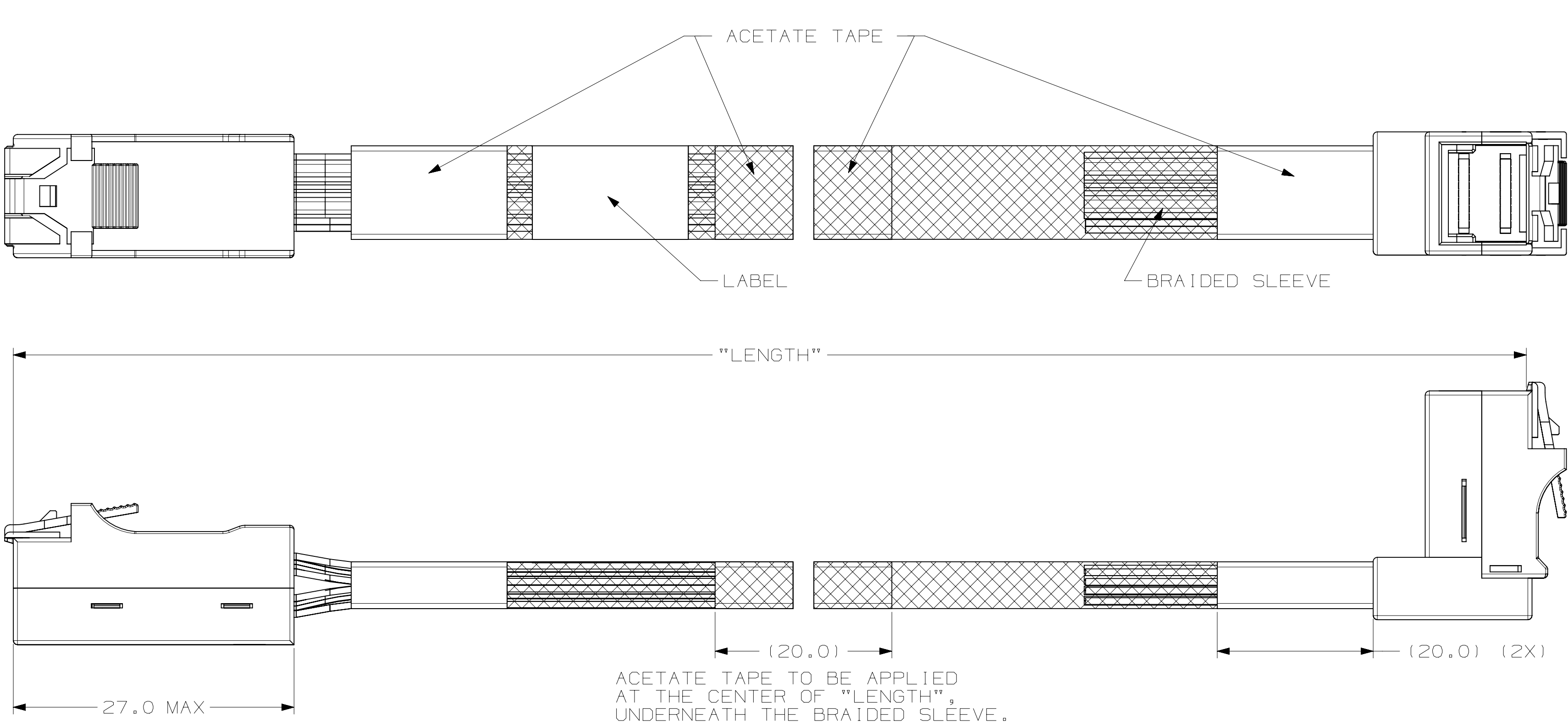
TABLE 3: WITHOUT SIDEBANDS



						A		0060617		OCT 17, 2014		KHL		SB							
DESIGN REFERENCE						NEXT ASSEMBLY						REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT		CHKD	
DISTRIBUTION CODES												CHG KOK HOE LEE		DATE OCT 17, 2014		MFG		DATE			
DIVISION						DIVISION CODE						CHG YUNLON QIAO		DATE OCT 17, 2014		APPRV SAJJUT BANDHU		DATE OCT 17, 2014			
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 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.		© 3M COPYRIGHT 2015							
 THIRD ANGLE PROJECTION																					
INTERPRET PER ASME Y14.5 - 1994						MILLIMETERS 0 ± .0 ±.5 .00 ±.05 .000 ±.005						CASE NUMBER		SIZE		DRAWING NO.		REV.			
MAX SURFACE ROUGHNESS 125 ✓ □ ALL SURFACES ✓ MARKED ONLY						ANGLES ±1°						D		78-5100-2651-7		A					
						MODEL						DET. LISTS		YES X 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
YYWWD

LABEL INFORMATION

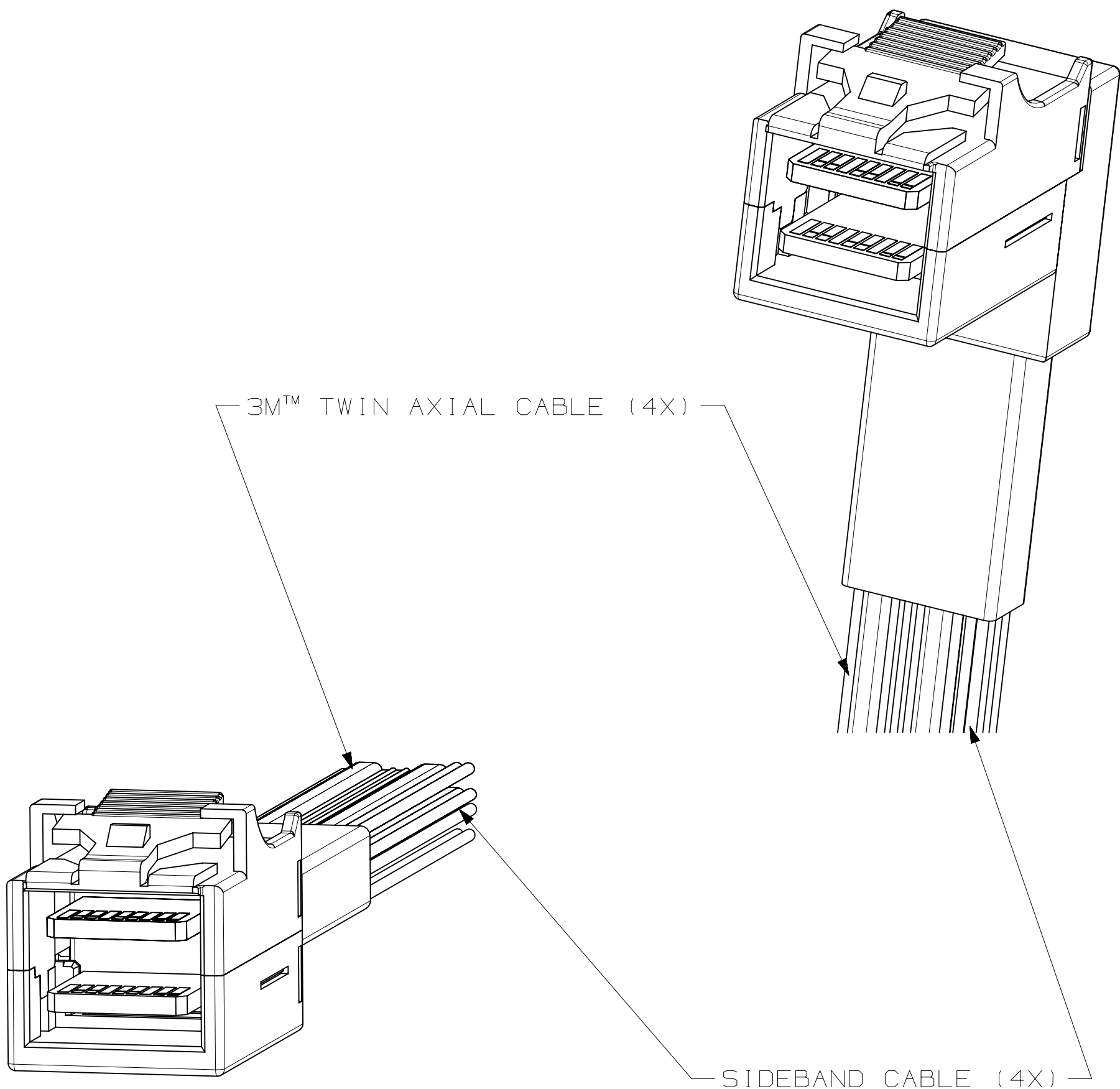
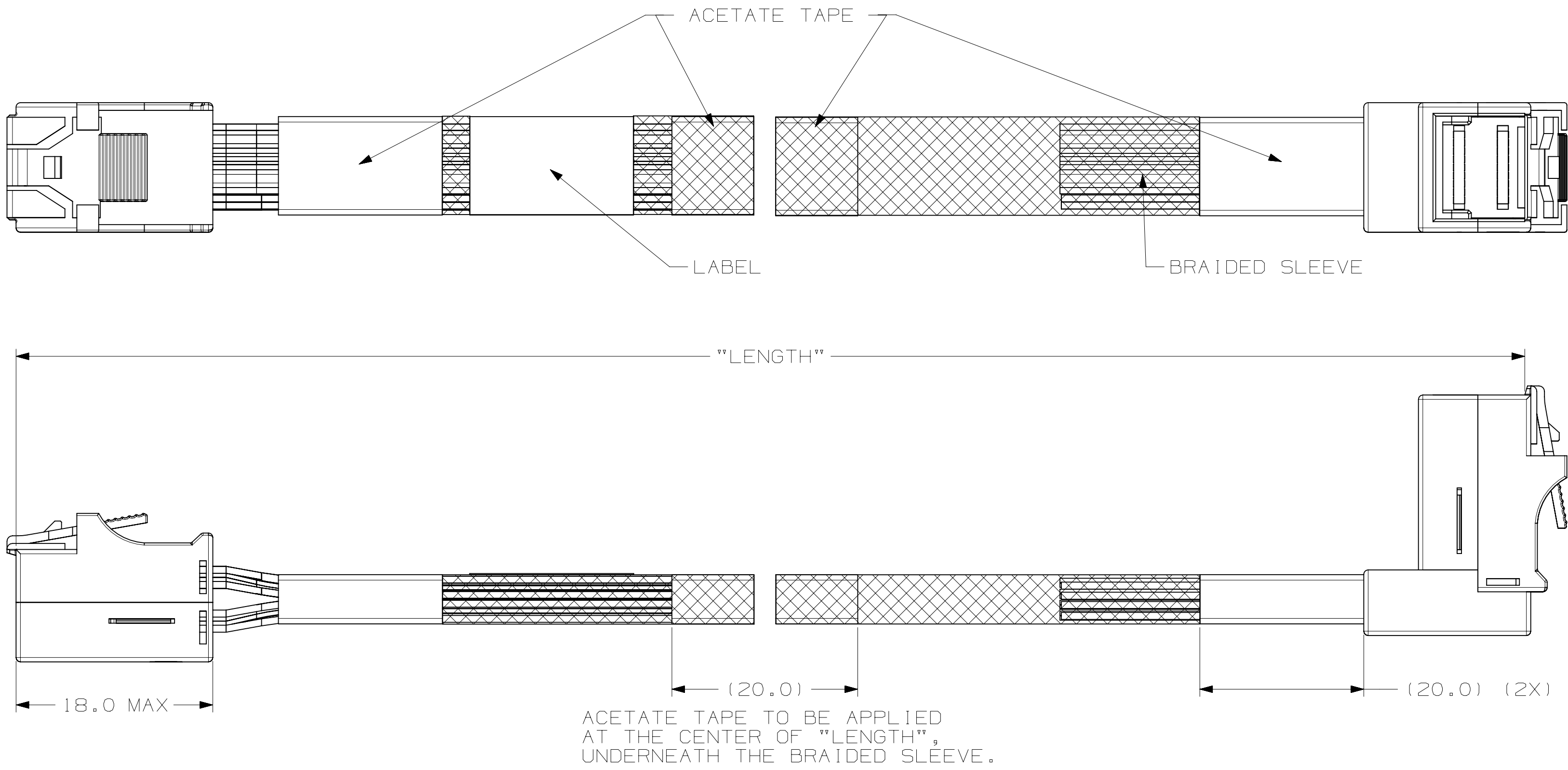
3M PART NUMBER

LOT NUMBER

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DISTRIBUTION CODES				DRP	KOK HOE LEE	DATE	OCT 17, 2014	MFG	DATE
DIVISION		DIVISION CODE		CHD	YUNLONG QIAO	DATE	OCT 17, 2014	APPR	SAUJIT BANDHU
DO NOT SCALE DRAWING		SCALE 1/1		TOLERANCES EXCEPT AS NOTED		INCHES			
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 1994		MILLIMETERS		0 ± .1			
MAX SURFACE ROUGHNESS 125/		ALL SURFACES MARKED ONLY		ANGLES ± 1°		.0 ± .005			
TITLE		INTERNAL MINISAS HD CABLE ASSEMBLY RIGHT-ANGLE CONNECTOR		CAGE NUMBER		SIZE	DRAWING NO.	REV.	
MODEL		DET		YES		NO	SHT 3 OF 4	A	

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"

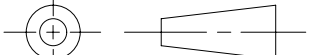
XXX	PINOUT	BRAIDED SLEEVE
AA1	STD MINISAS HD 4i WITH SIDEBANDS (SEE TABLE 2)	YES
AA2	STD MINISAS HD 4i WITH SIDEBANDS (SEE TABLE 2)	NO
CB1	MINISAS HD 4i WITHOUT SIDEBANDS (SEE TABLE 3)	YES
CB2	MINISAS HD 4i WITHOUT SIDEBANDS (SEE TABLE 3)	NO

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		© 3M COPYRIGHT 2015					
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		INCHES 0.000 ± 0.000 ±		TITLE		INTERNAL MINISAS HD CABLE ASSEMBLY RIGHT-ANGLE CONNECTOR					
THIRD ANGLE PROJECTION		MILLIMETERS 0 ± 0.05 ± 0.005 ±		CAGE NUMBER		SIZE		DRAWING NO.		REV.	
INTERPRET PER ASME Y14.5 - 1994		MAX SURFACE ROUGHNESS 125/		D		78-5100-2651-7		A			
ALL SURFACES		MARKED ONLY		MODEL		DET		YES		NO	
		ANGLES ±1°				LISTS		SHT		4 OF 4	

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

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Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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www.lifeelectronics.ru