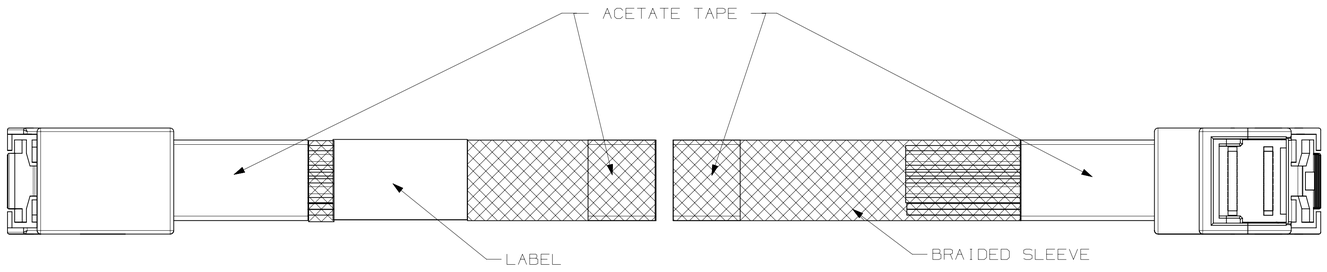
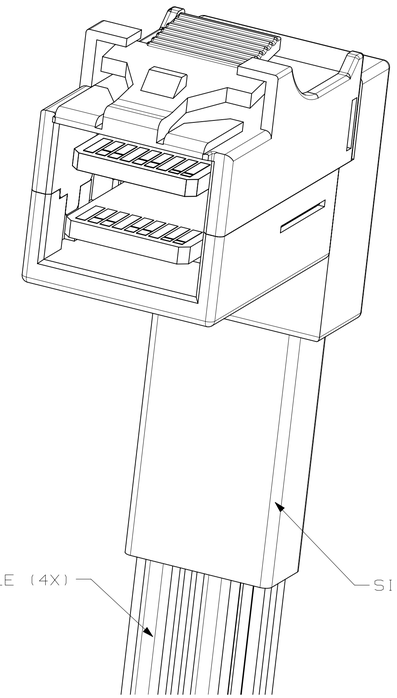
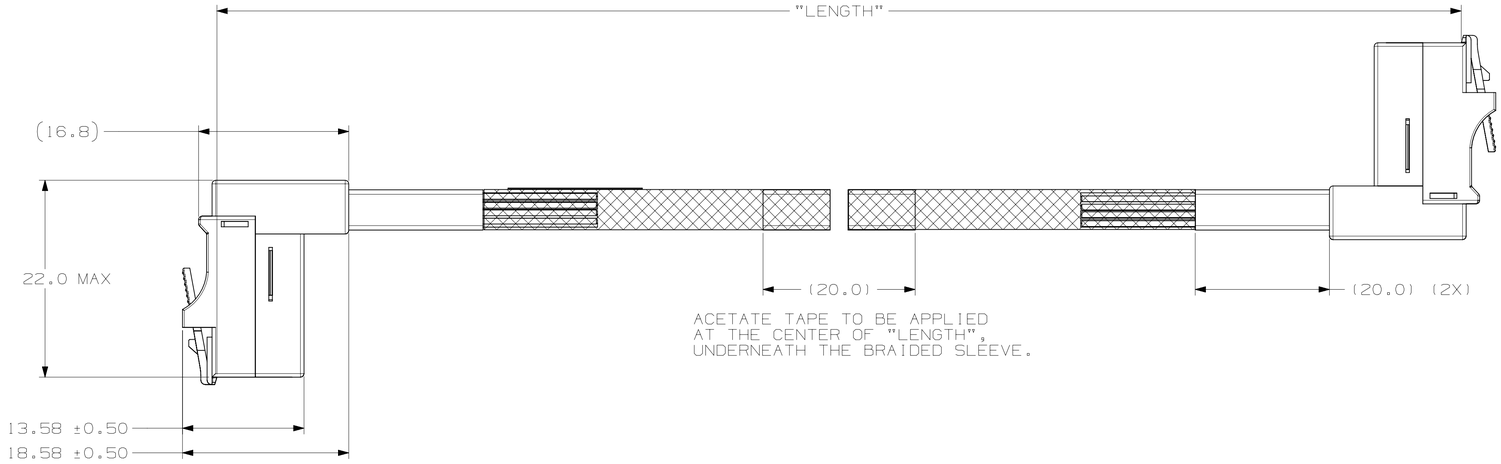
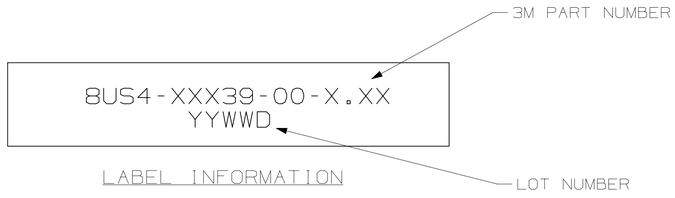
3M™ HIGH ROUTABILITY INTERNAL MINISAS HD CABLE ASSEMBLIES, 8U SERIES

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









LABEL INFORMATION

	A	0060617	OCT 17,2014	KHL	SB
	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD

DESIGN REFERENCE NEXT ASSEMBLY

DISTRIBUTION CODES

DRFT KOK HOE LEE — DATE OCT 17,2014 — MFG — DATE

CHKD YUNLONG QIAO — DATE OCT 17,2014 — APPVL SAUJIT BANDHU — DATE OCT 17,2014

DIVISION — DIVISION CODE

DO NOT SCALE DRAWING — SCALE 1/1

TOLERANCES EXCEPT AS NOTED

INCHES
.0 ±
.00 ±
.000 ±
.0000 ±

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 1994

MILLIMETERS
0 ±1
.0 ±.5
.00 ±.05
.000 ±.005

MAX SURFACE ROUGHNESS 125 ☐ ALL SURFACES ☒ MARKED ONLY

ANGLES ±1°

3M 3M Center St. Paul, MN 55144

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TITLE
INTERNAL MINISAS HD CABLE ASSEMBLY RIGHT-ANGLE CONNECTOR

CAGE NUMBER — SIZE D — DRAWING NO. 78-5100-2651-7 — REV. A

MODEL — DET. LISTS ☐ YES ☒ NO — SHT 1 OF 4

78-5100-2651-7 DRAWING NUMBER — A REVISION

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

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 POSITION	P1 SYMBOL		P2 SYMBOL	P2 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

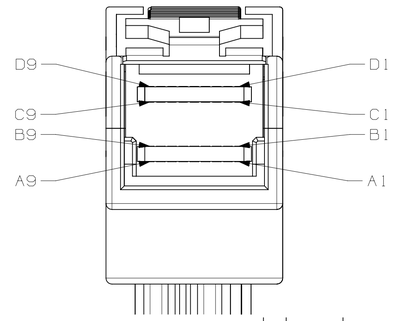
TABLE 2: WITH SIDEBANDS

PINOUT 2

P1 POSITION	P1 SYMBOL		P2 SYMBOL	P2 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



REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
A	0060617	OCT 17,2014	KHL	SB

DESIGN REFERENCE | NEXT ASSEMBLY

DISTRIBUTION CODES

DRFT	DATE	MFG	DATE
KOK HOE LEE	OCT 17,2014		
CHKD	DATE	APPVL	DATE
YUNLONG QIAO	OCT 17,2014	SAUJIT BANDHU	OCT 17,2014

DIVISION | DIVISION CODE

DO NOT SCALE DRAWING | SCALE 1/1

TOLERANCES EXCEPT AS NOTED
INCHES
.0 ±
.00 ±
.000 ±
.0000 ±

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 1994

MILLIMETERS
0 ±1
.0 ±.5
.00 ±.05
.000 ±.005

MAX SURFACE ROUGHNESS 125 ☐ ALL SURFACES ☒ MARKED ONLY

ANGLES ±1°

3M Center, St. Paul, MN 55144

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TITLE
INTERNAL MINISAS HD CABLE ASSEMBLY
RIGHT-ANGLE CONNECTOR

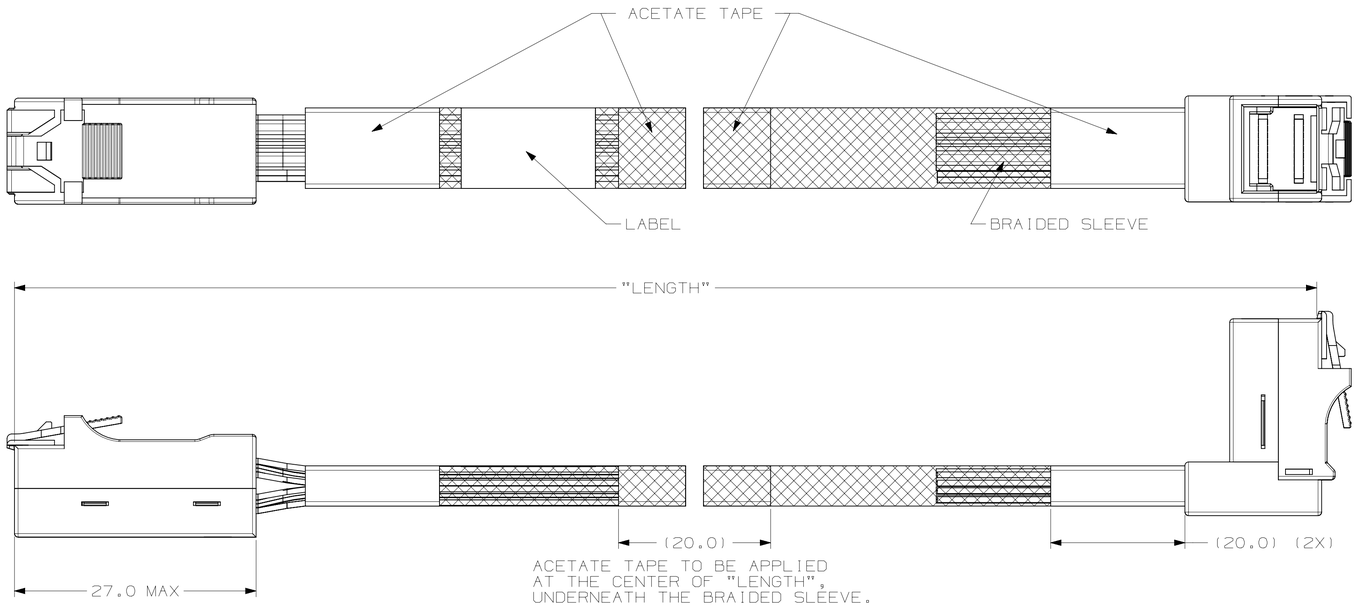
CAGE NUMBER	SIZE	DRAWING NO.	REV.
	D	78-5100-2651-7	A

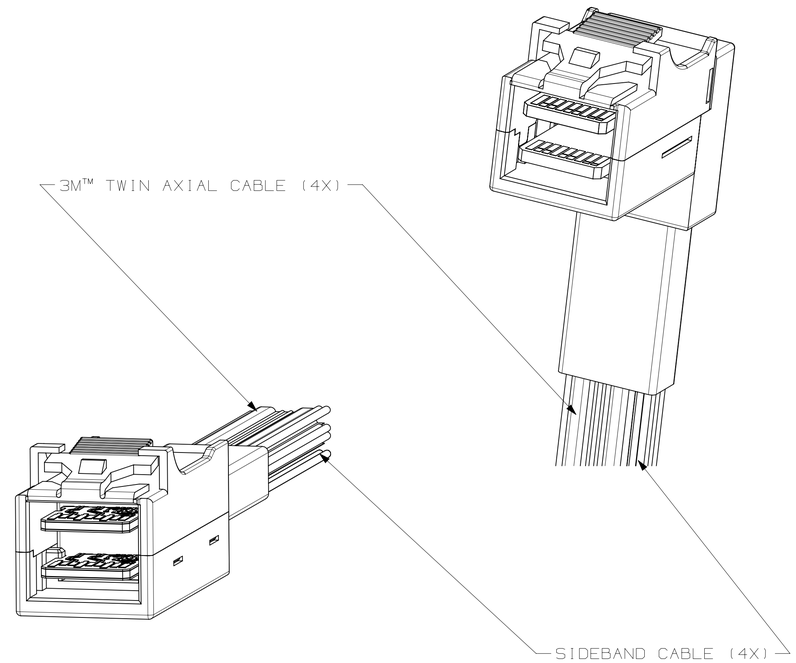
MODEL | DET. LISTS ☐ YES ☒ NO | SHT 2 OF 4

78-5100-2651-7 (DRAWING NUMBER) A (REVISION)

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

8US4 - XXX 49 - 00 - X.XX

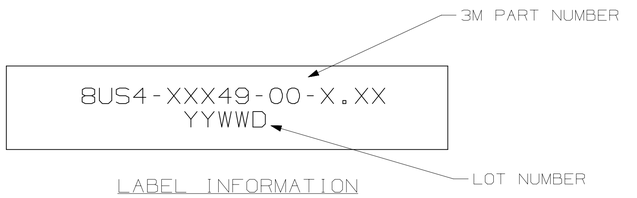
- XXX: TABLE 4: DESCRIPTION FOR "XXX"
- X.XX: "LENGTH" IN METERS

"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



LABEL INFORMATION

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
A	0060617	OCT 17,2014	KHL	SB

DESIGN REFERENCE: NEXT ASSEMBLY
DISTRIBUTION CODES:
DRFT: KOK HOE LEE, DATE: OCT 17,2014
MFG: DATE:
CHKD: YUNLONG QIAO, DATE: OCT 17,2014
APPV: SAUJIT BANDHU, DATE: OCT 17,2014
DIVISION:
DIVISION CODE:
DO NOT SCALE DRAWING
SCALE 1/1
TOLERANCES EXCEPT AS NOTED
INCHES
.0 ±1
.00 ±.5
.000 ±.05
.0000 ±
THIRD ANGLE PROJECTION
INTERPRET PER ASME Y14.5 - 1994
MILLIMETERS
0 ±1
.0 ±.5
.00 ±.05
.000 ±.005
MAX SURFACE ROUGHNESS 125 ☐ ALL SURFACES ☒ MARKED ONLY
ANGLES ±1°

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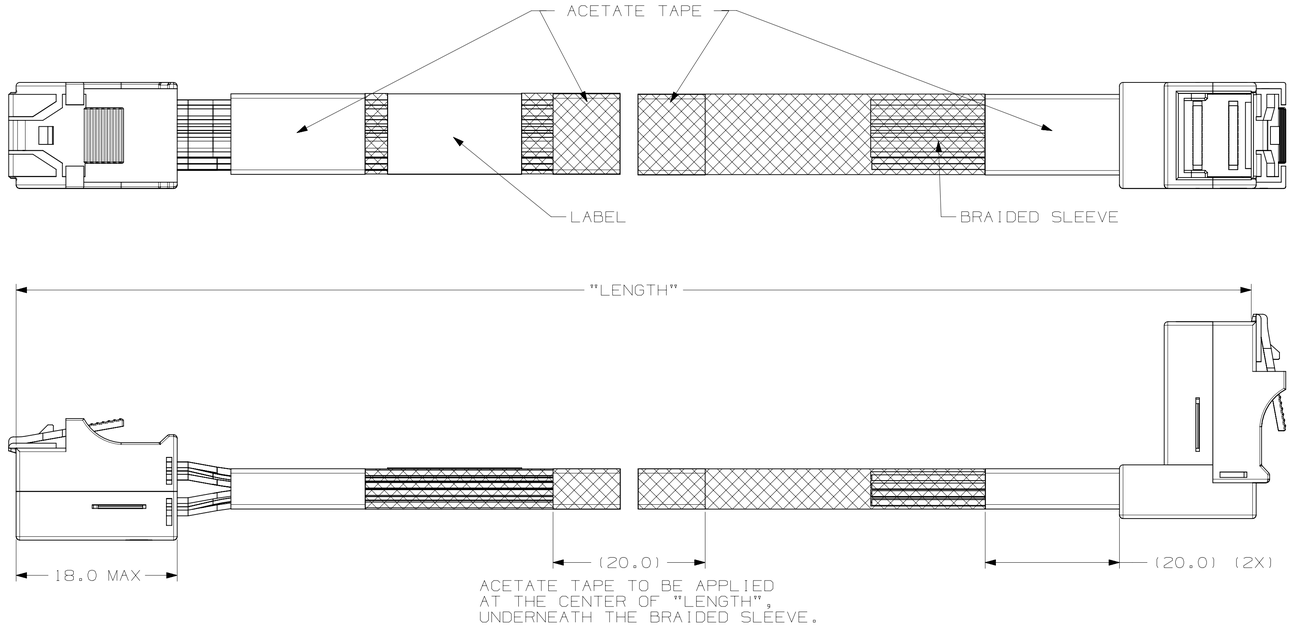
TITLE: INTERNAL MINISAS HD CABLE ASSEMBLY RIGHT-ANGLE CONNECTOR

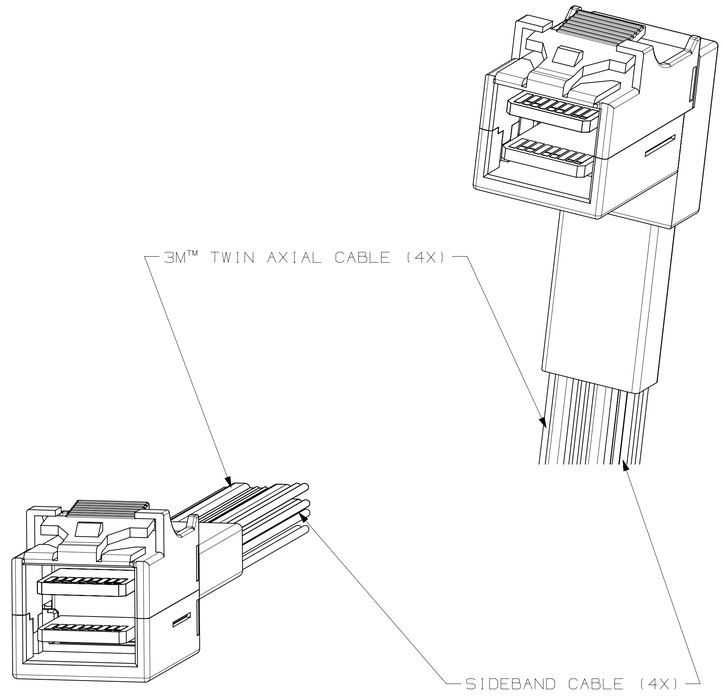
CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-2651-7 | REV.: A
MODEL:
DET LISTS ☐ YES ☒ NO | SHT 3 OF 4

78-5100-2651-7 (DRAWING NUMBER) A (REVISION)

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

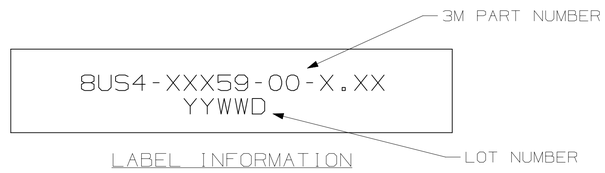
8US4 - XXX 59 - 00 - X.XX

- XXX: TABLE 5: DESCRIPTION FOR "XXX"
- X.XX: "LENGTH" IN METERS

"LENGTH" TOLERANCE

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

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



LABEL INFORMATION

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
A	0060617	OCT 17,2014	KHL	SB

DESIGN REFERENCE | NEXT ASSEMBLY

DISTRIBUTION CODES

DRFT	DATE	MFG	DATE
KOK HOE LEE	OCT 17,2014		
CHKD: YUNLONG QIAO	OCT 17,2014	APPVL: SAUJIT BANDHU	OCT 17,2014

DIVISION | DIVISION CODE

DO NOT SCALE DRAWING | SCALE 1/1

TOLERANCES EXCEPT AS NOTED
INCHES
.0 ±
.00 ±
.000 ±
.0000 ±
MILLIMETERS
0 ±1
.0 ±.5
.00 ±.05
.000 ±.005
ANGLES ±1°

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 1994

MAX SURFACE ROUGHNESS 125 ☐ ALL SURFACES ☒ MARKED ONLY

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TITLE: INTERNAL MINISAS HD CABLE ASSEMBLY RIGHT-ANGLE CONNECTOR

CAGE NUMBER | SIZE D | DRAWING NO. 78-5100-2651-7 | REV. A

MODEL | DET. LISTS ☐ YES ☒ NO | SHT 4 OF 4

78-5100-2651-7 (DRAWING NUMBER) | A (REVISION)

LifeElectronics
Живое партнерство

ООО «ЛайфЭлектроникс» **“LifeElectronics” LLC**

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

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- *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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- *Техническую поддержку проекта.*
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- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

Тел: +7 (812) 336 43 04 (многоканальный)
Email: org@lifeelectronics.ru

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