



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

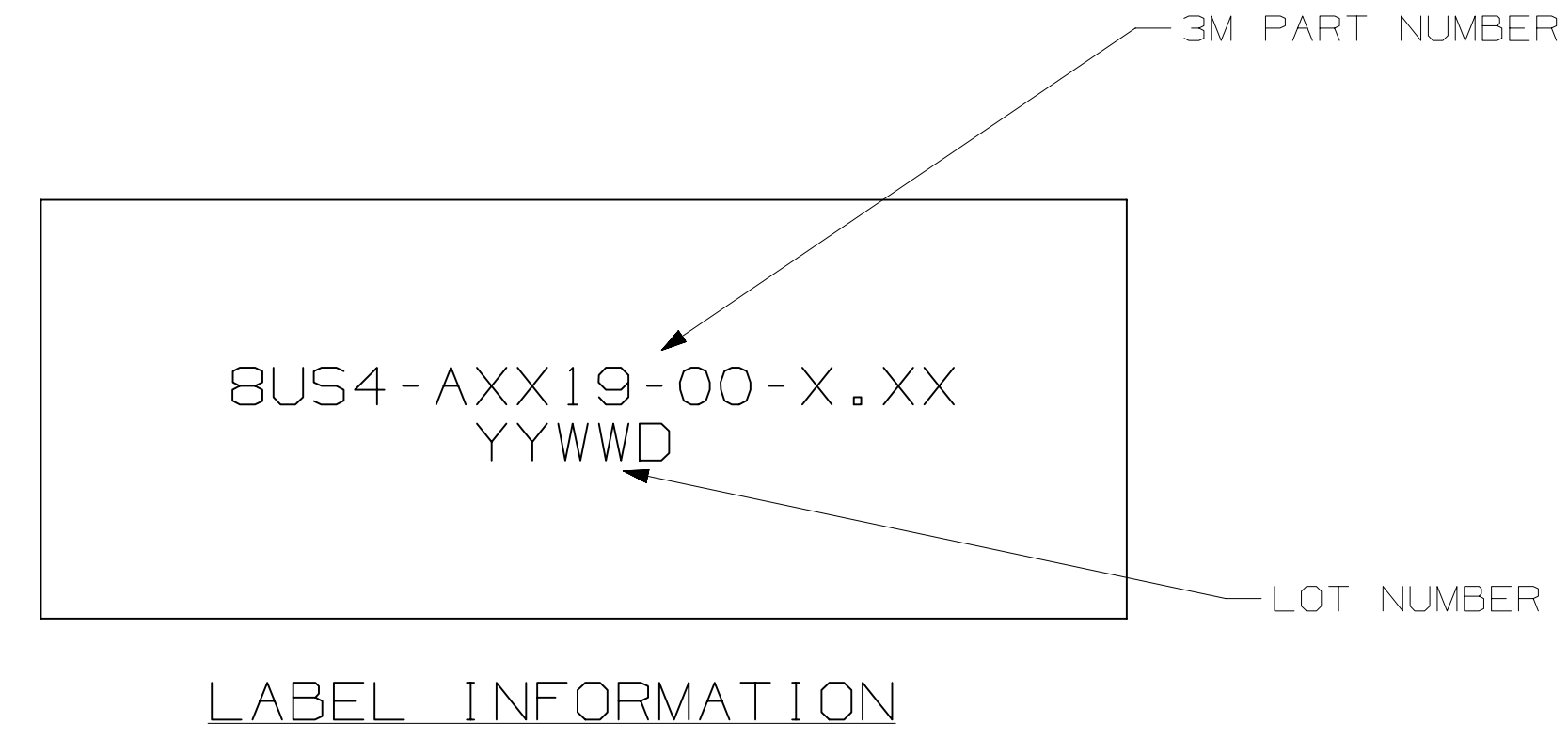
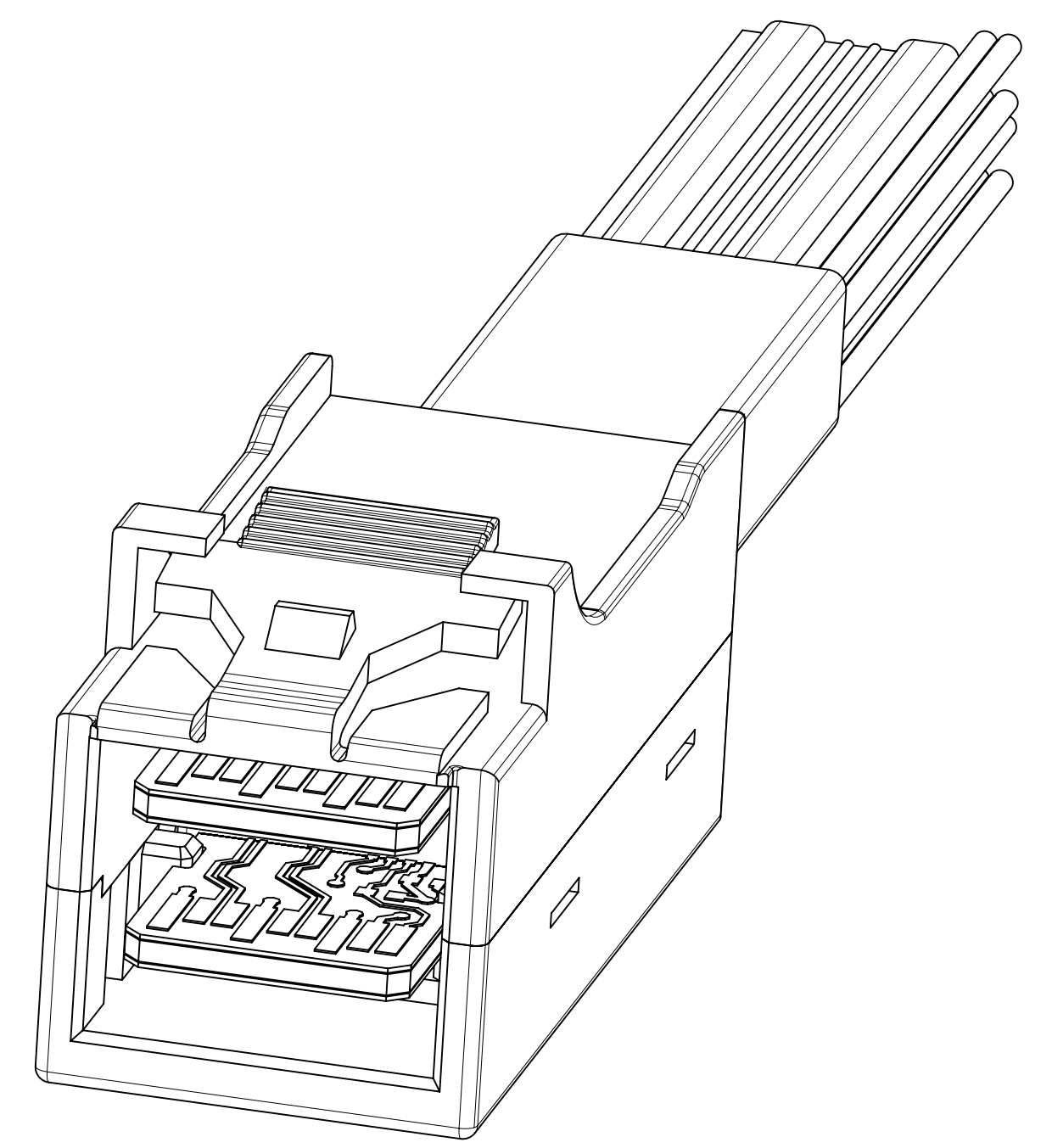
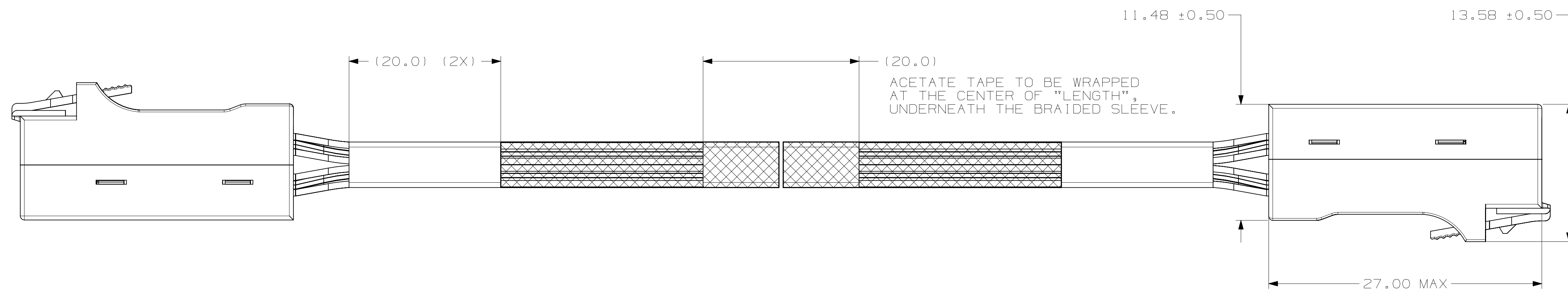
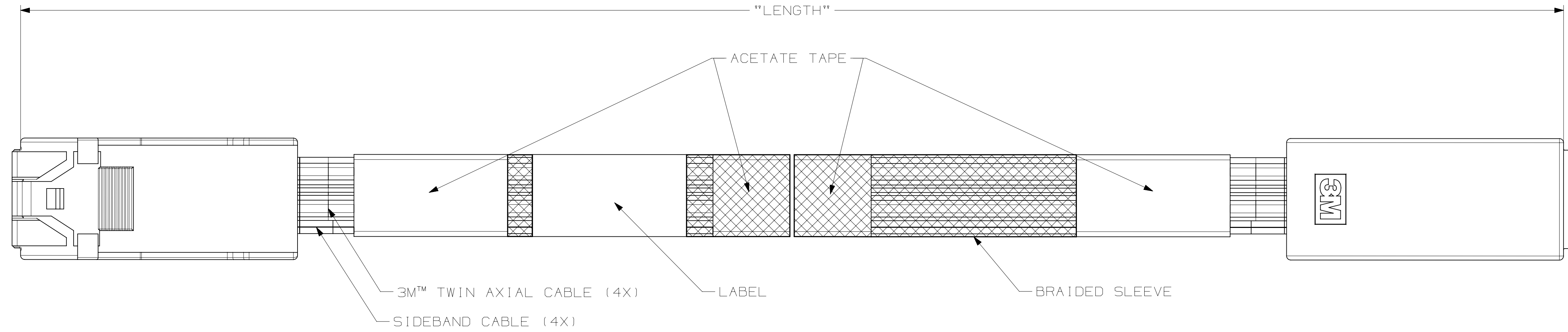
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



3M™ HIGH ROUTABILITY INTERNAL HD MINISAS CABLE ASSEMBLIES, 8U SERIES
 VISIT <http://www.3Mconnectors.com>



DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DISTRIBUTION CODES				DRY	KOK HOE LEE	DATE	APR 1, 2013	MFG
DIVISION		DIVISION CODE		CHKD	YUNLONG QIAO	DATE	APR 1, 2013	APPR
				DATE	APR 1, 2013	DATE	APR 1, 2013	DATE
DO NOT SCALE DRAWING		SCALE 1/4		TOLERANCES EXCEPT AS NOTED				
THIRD ANGLE PROJECTION		INCHES		MILLIMETERS				
INTERPRET PER ASME Y14.5 - 1994		.00 ±		0 ± .1				
MAX SURFACE ROUGHNESS 125		.00 ± .05		.00 ± .05				
ALL SURFACES MARKED ONLY		.000 ± .005		.000 ± .005				
		ANGLES ± 1°		TITLE				
				INTERNAL MINISAS HD CABLE ASSEMBLY				
				CAGE NUMBER		DRAWING NO.		REV.
				D78-5100-2555-0		D78-5100-2555-0		B
				MODEL		SHT 1 OF 2		

78-5100-2555-0 DRAWING NUMBER
 06-12-2013 14:10 ASSEMBLY.PRT

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

3M PART NUMBERING SCHEME

8US4 - XXX 19 - 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
AA1	STD MINISAS HD 4i WITH SIDEBANDS (SEE TABLE 2)
CB1	MINISAS HD 4i WITHOUT SIDEBANDS (SEE TABLE 3)

NOTES

- MATERIALS:
 HOUSING: THERMOPLASTIC
 INNERMOULD: THERMOPLASTIC
 3M™ TWIN AXIAL CABLE:
 CONDUCTORS: SOLID COPPER
 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
- ROHS COMPLIANT. SEE REGULATORY INFORMATION APPENDIX IN "ROHS COMPLIANCE" SECTION AT WWW.3MCONNECTORS.COM (E1 & C1 APPLY)
- 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.
- PRODUCT SPECIFICATION*: 78-5102-0147-4

WIRING DIAGRAM 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
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

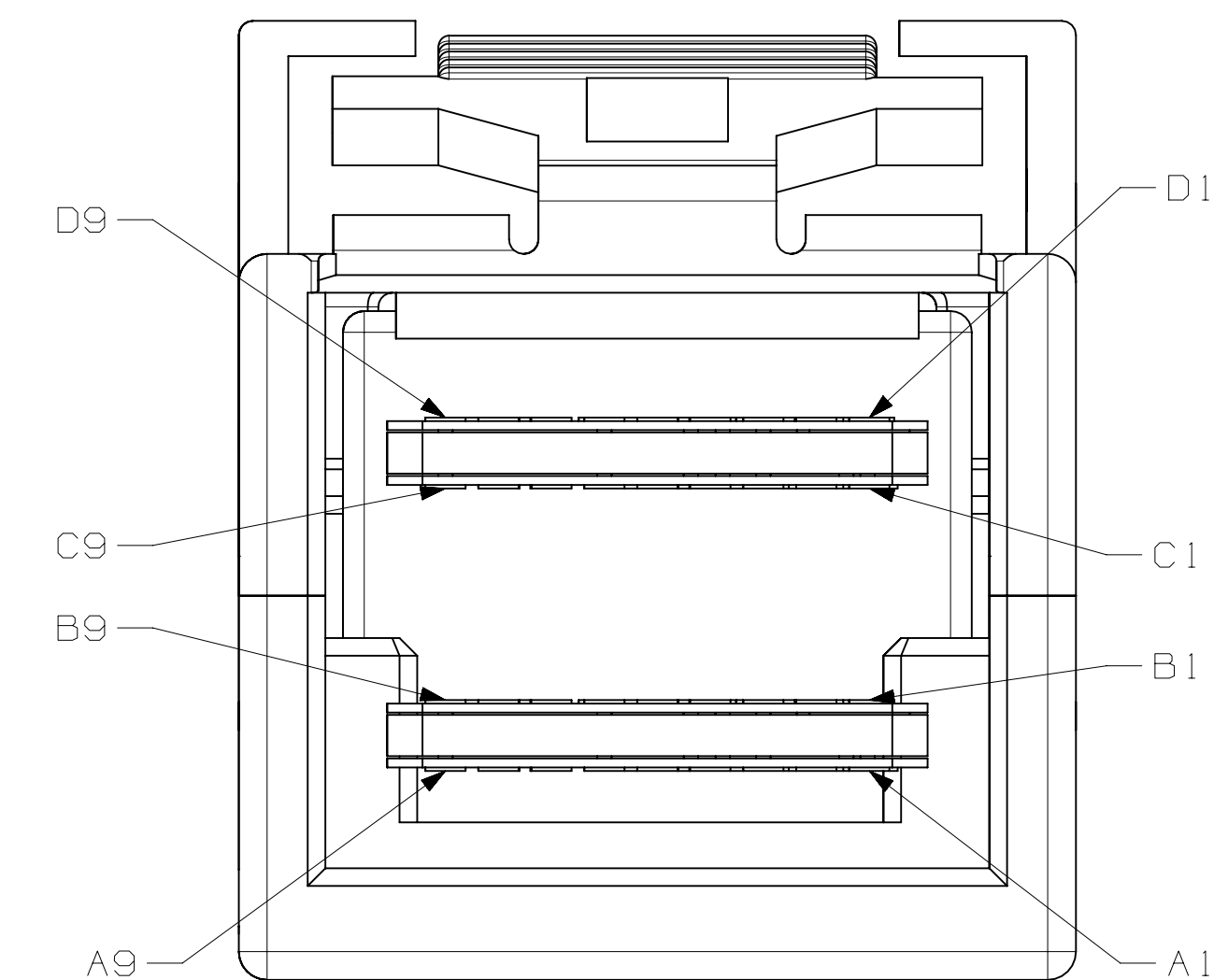
WIRING DIAGRAM 2

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	REV	ECD	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
		B	0046310	APR 1, 2013	KHL	SB
		A	0044954	DEC 13, 2012	KHL	SB
DISTRIBUTION CODES		DRN	KOK HOE LEE	DATE APR 1, 2013	MFG	DATE
		CHKD	YUNLONG QIAO	DATE APR 1, 2013	APPR	DATE
					SAJJIT BANDHU	APR 1, 2013
DIVISION	DIVISION CODE	© 3M COPYRIGHT 2013 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 1/4	TOLERANCES EXCEPT AS NOTED INCHES .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°				
TITLE		INTERNAL MINISAS HD CABLE ASSEMBLY				
CAGE NUMBER		D 78-5100-2555-0				
DRAWING NO.		78-5100-2555-0				
REV.		B				
MODEL		SHT 2 OF 2				

78-5100-2555-0 DRAWING NUMBER
06-12-2013 14:10 ASSEMBLY.PRT