

1	2	3	4	5	6	7	8	9
REV.	REMARK	DATE	SIGN.					

RoHS

MATERIAL RoHS COMPLIANT:

1.CABLE:

CONDUCTOR: 30 AWG SOLID SILVER PLATED COPPER.

INSULATION: SKIN-FOAM-SKIN

PAIR: 2 WIRES, WH AND YE PARALLEL.

PAIR DRAIN WIRE: $\phi 0.2$ mm (32AWG) TINNED COPPER.

PAIR SHIELD: ALUMINUM FOIL OVERLAPPED, ALU INSIDE.

DIFFERENTIAL IMPEDANCE: 100 ± 5 OHM.

2.CONNECTOR:

P1,P2: Mini SAS HD 4x CABLE PLUG (SFF-8644)

(1) P.C.B: 4 LAYERS, GOLD PLATING ON CONTACT PADS, WITHOUT CARBON

(P/N: MPCB-040113LF REV.A / SPCB-040114A)

(2) LATCH: STAINLESS STEEL

(3) BACKSHELL- ZINC DIE CASTING HOOD/ NICKEL PLATING

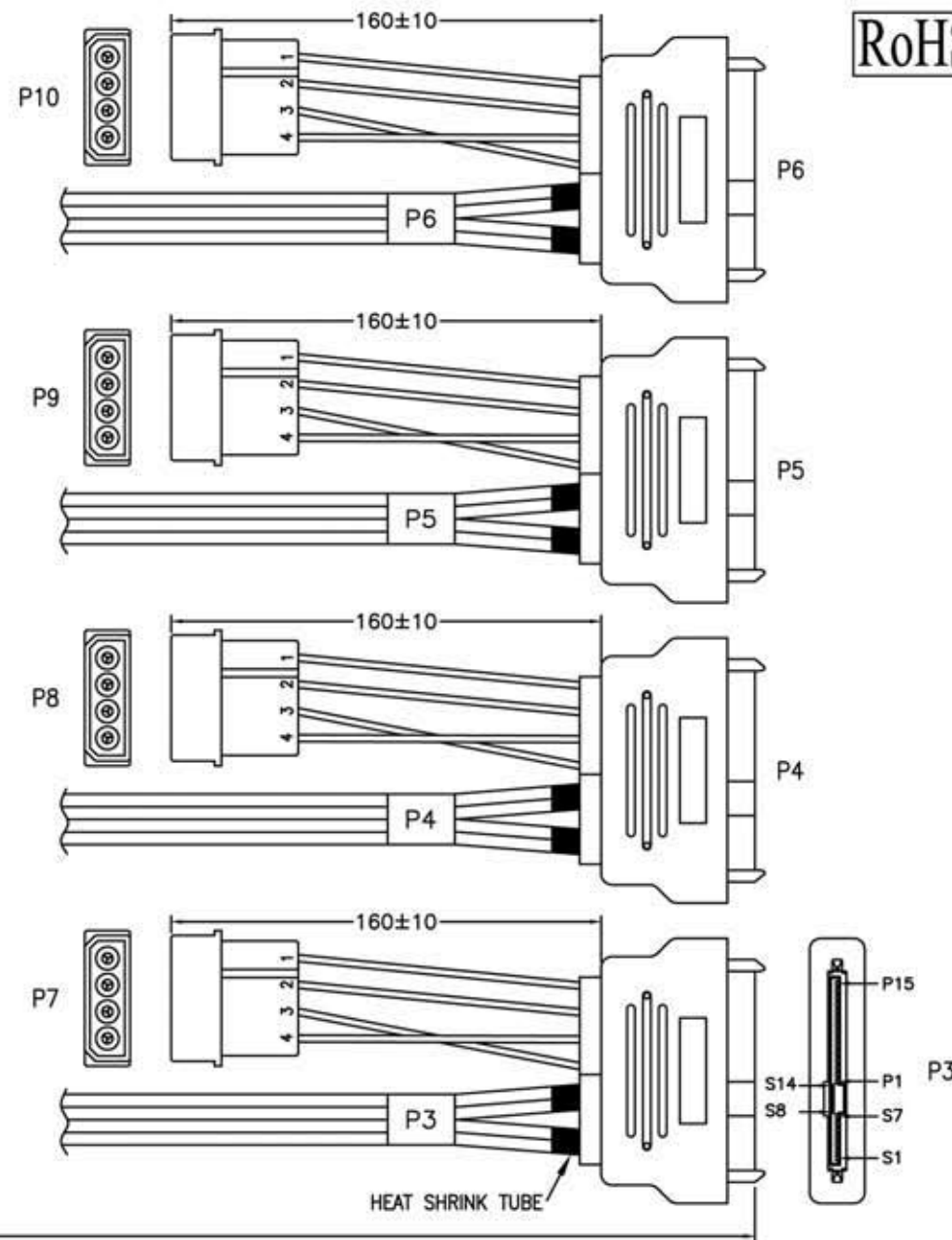
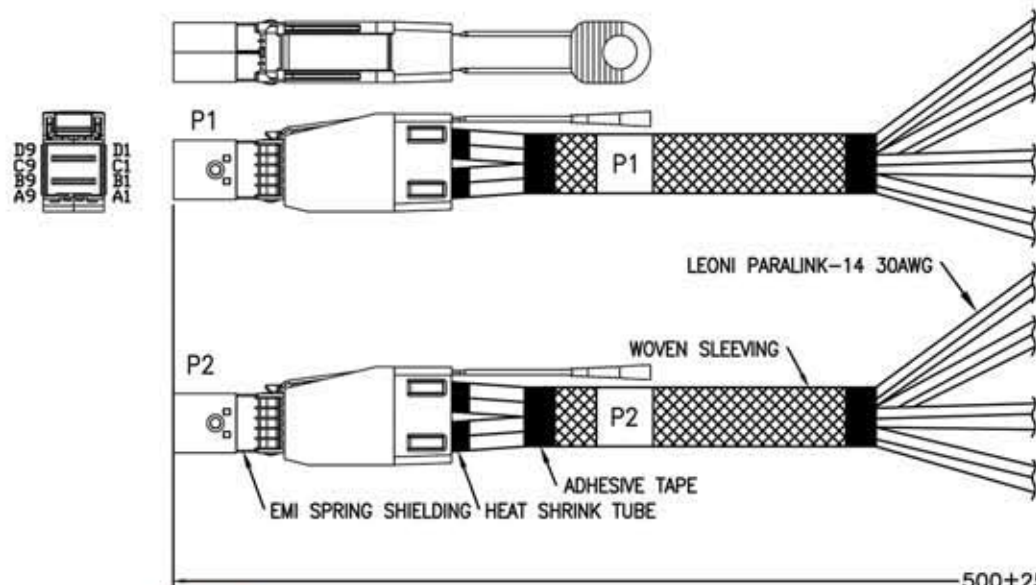
(4) PULL TAB: NYLON UL94V-0, COLOR: BLUE.

(5) EMI SPRING SHIELDING

P3-P6: SAS DRIVE REC (SFF-8680) (MSAS-F29S001G)

P7-P10: 4 POSITION DC POWER PLUG

POWER CABLE: UL 1007 18AWG 80°C 300V



DESC.	Mini SAS HD 4x*2 TO 4*SAS drive rec. with power cable ass'y	APPROVED	CHECKED	DESIGNED	TOLERANCE	SCALE	*	UNIT	mm	
P/N	B-4351			Sino		DATE	03/06/'13	DWG NO:	DWG\B\4351	

REV.	REMARK	DATE	SIGN.	1	2	3	4	5	6	7	8	9

WIRING DIAGRAM

MINI SAS HD 4x (P1)		MINI SAS HD 4x (P2)		SAS DRIVE REC.		
PIN	SIGNAL	PIN	SIGNAL	REC.	PIN	SIGNAL
B4	RX0+			P3	S6	TP+
B5	RX0-				S5	TP-
D5	TX0-				S3	RP-
D4	TX0+				S2	RP+
GND GROUP					S1,S4,S7	GND
		B4	RX0+		S13	TS+
		B5	RX0-		S12	TS-
		D5	TX0-		S10	RS-
		D4	TX0+		S9	RS+
		GND GROUP			S8,S11,S14	GND
A4	RX1+			P4	S6	TP+
A5	RX1-				S5	TP-
C5	TX1-				S3	RP-
C4	TX1+				S2	RP+
GND GROUP					S1,S4,S7	GND
		A4	RX1+		S13	TS+
		A5	RX1-		S12	TS-
		C5	TX1-		S10	RS-
		C4	TX1+		S9	RS+
		GND GROUP			S8,S11,S14	GND
B7	RX2+			P5	S6	TP+
B8	RX2-				S5	TP-
D8	TX2-				S3	RP-
D7	TX2+				S2	RP+
GND GROUP					S1,S4,S7	GND
		B7	RX2+		S13	TS+
		B8	RX2-		S12	TS-
		D8	TX2-		S10	RS-
		D7	TX2+		S9	RS+
		GND GROUP			S8,S11,S14	GND
A7	RX3+			P6	S6	TP+
A8	RX3-				S5	TP-
C8	TX3-				S3	RP-
C7	TX3+				S2	RP+
GND GROUP					S1,S4,S7	GND
		A7	RX3+		S13	TS+
		A8	RX3-		S12	TS-
		C8	TX3-		S10	RS-
		C7	TX3+		S9	RS+
		GND GROUP			S8,S11,S14	GND

P1,P2 GND GROUP:
A3,A6,A9,B3,B6,B9,
C3,C6,C9,D3,D6,D9.

LOW SPEED SIGNAL & POWER

P1,P2(Mini SAS HD 4x Plug)		
PAD	SIGNAL	
A1	Reserved	N.C.
A2	IntL	N.C.
B1	Vact	N.C.
B2	ModPrstL	→ GND
C1	SCL	SERIAL EEPROM
C2	SDA	
D1	Vact	→ GND
D2	Vman	→ Vman

SAS DRIVE REC.			4P POWER PLUG		
REC.	PIN	SIGNAL	PLUG	PIN	SIGNAL
P3	P13,P14,P15	+12V	P7	1	+12V
	P10,P11,P12	GND		2	GND
	P7,P8,P9	+5V		4	+5V
	P4,P5,P6	GND		3	GND
P4	P13,P14,P15	+12V	P8	1	+12V
	P10,P11,P12	GND		2	GND
	P7,P8,P9	+5V		4	+5V
	P4,P5,P6	GND		3	GND
P5	P13,P14,P15	+12V	P9	1	+12V
	P10,P11,P12	GND		2	GND
	P7,P8,P9	+5V		4	+5V
	P4,P5,P6	GND		3	GND
P6	P13,P14,P15	+12V	P10	1	+12V
	P10,P11,P12	GND		2	GND
	P7,P8,P9	+5V		4	+5V
	P4,P5,P6	GND		3	GND



DESC.	Mini SAS HD 4x*2 TO 4*SAS drive rec. with power cable ass'y	APPROVED		CHECKED		DESIGNED	Sino	TOLERANCE		SCALE	*	UNIT	mm	
P/N	B-4351	CUSTOMER P/N								DATE	03/06/'13	DWG NO:	DWG\B\4351	