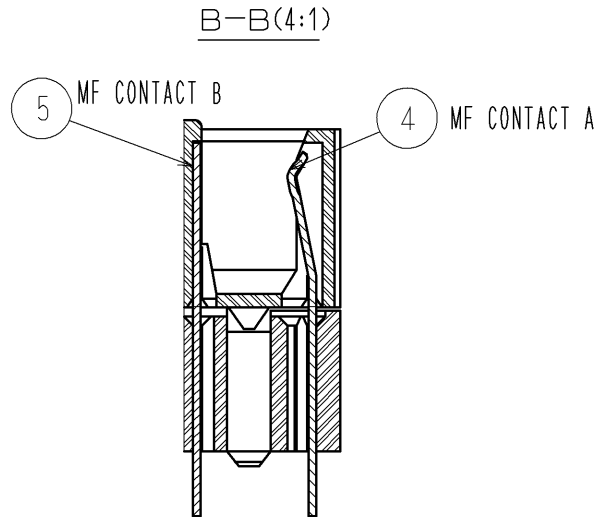
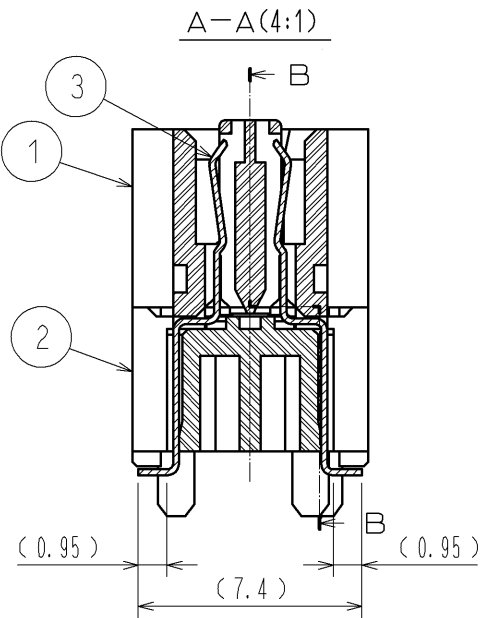
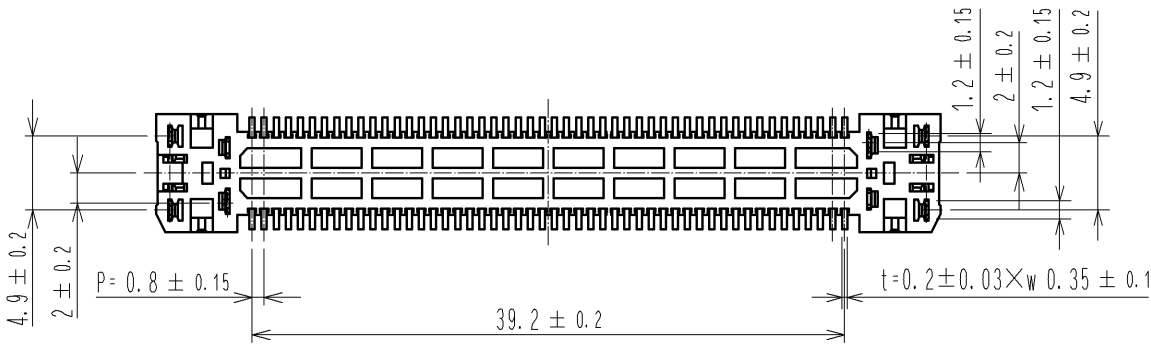
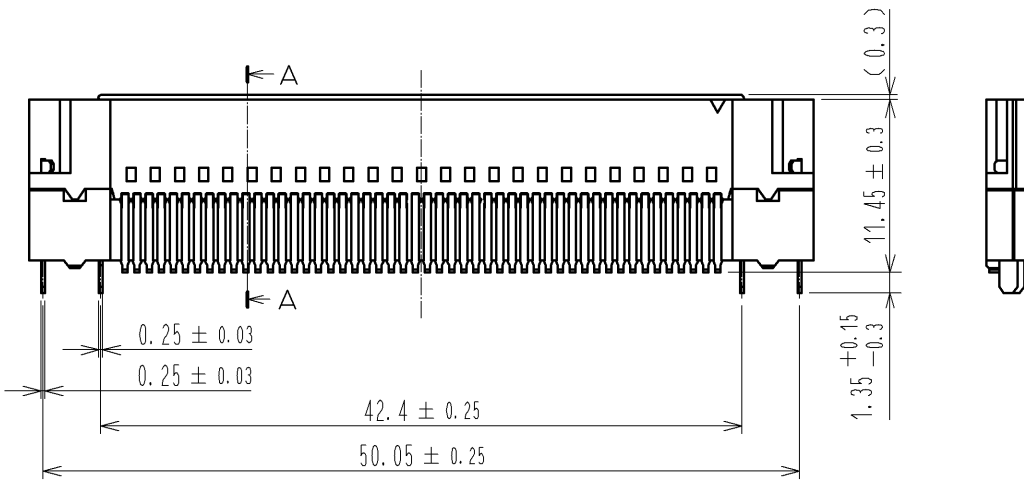
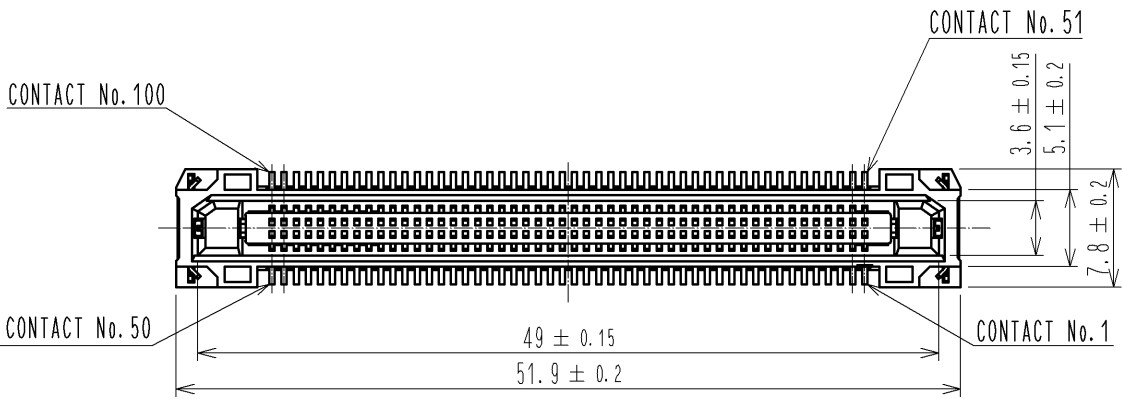
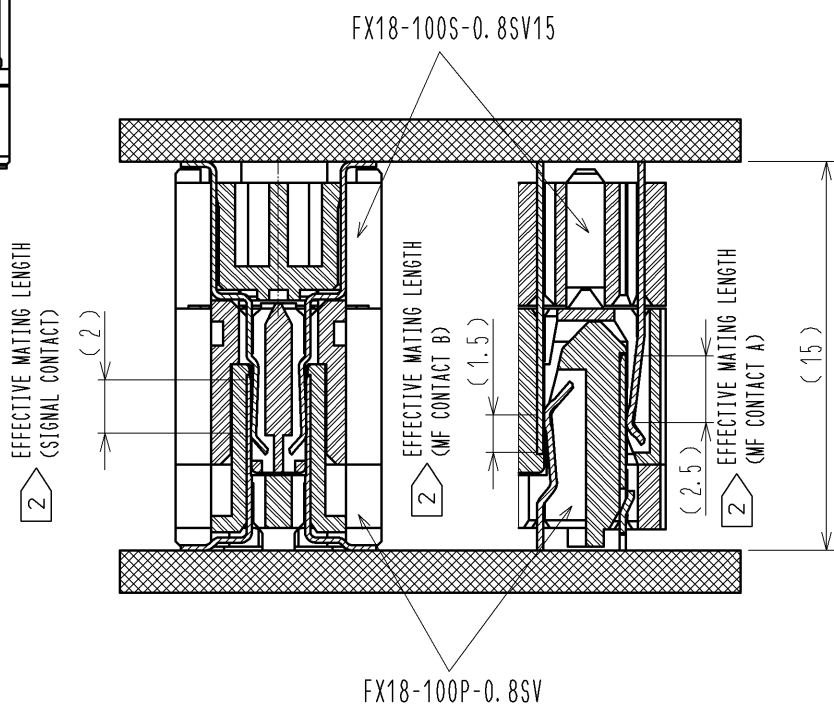


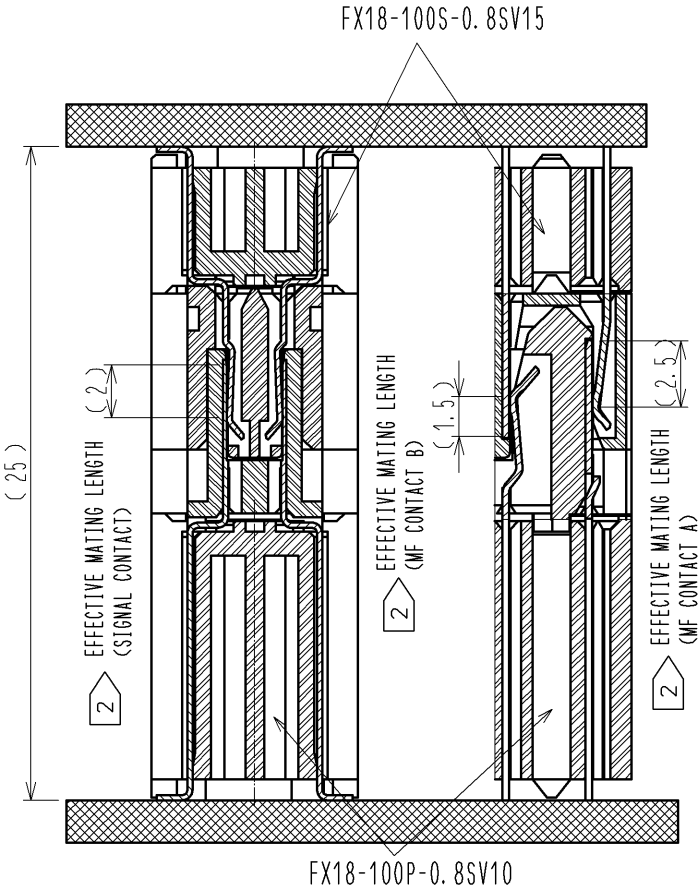
APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C <sup>(1)</sup>		STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C <sup>(2)</sup>
	VOLTAGE	100 V AC		STORAGE HUMIDITY RANGE	40 % TO 70 % <sup>(2)</sup>
	CURRENT	0.5 A (SIGNAL CONTACT) <sup>(3)</sup> 3 A (MF CONTACT)		OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY 85% max (NOT DEWED)
SPECIFICATIONS					
ITEM		TEST METHOD		REQUIREMENTS	QT AT
CONSTRUCTION					
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	x x
MARKING		CONFIRMED VISUALLY.			x x
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE		100 mA(DC OR 1000Hz)		SIGNAL CONTACT : 90 mΩ MAX. MF CONTACT : 30 mΩ MAX.	x —
INSULATION RESISTANCE		250 V DC.		1000 MΩ MIN.	x —
VOLTAGE PROOF		300 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	x —
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE: 60 N MAX. WITHDRAWAL FORCE: 6 N MIN.	x —
MECHANICAL OPERATION		500 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: SIGNAL CONTACT : 100 mΩ MAX. MF CONTACT : 40 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x —
VIBRATION		FREQUENCY 10 TO 55 TO 10Hz, APPROX 5min SINGLE AMPLITUDE : 0.75 mm, 10 CYCLES FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x —
SHOCK		490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			x —
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)		EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.		① CONTACT RESISTANCE: SIGNAL CONTACT : 100 mΩ MAX. MF CONTACT : 40 mΩ MAX.	x —
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 → +85 °C TIME 30 → 30 min. UNDER 5 CYCLES. (RELOCATION TIME TO CHAMBER: WITHIN 2~3 MIN)		② INSULATION RESISTANCE : 1000 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x —
SULFUR DIOXIDE		EXPOSED AT 25±2°C, 75±5%RH, 25 PPM FOR 96 h. (TEST STANDARD: JIS C 60068)		NO HEAVY CORROSION.	x —
RESISTANCE TO SOLDERING HEAT		1) REFLOW SOLDERING : PEAK TMP : 260°C MAX REFLOW TMP: 220°C MIN FOR 60sec 2) SOLDERING IRONS : 360°C MAX. FOR 5 sec.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	x —
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE 240±3°C FOR IMMERSION DURATION, 3 sec.		A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	x —
COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE
△					
<b>REMARKS</b> <sup>(1)</sup> INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING. <sup>(2)</sup> "STORAGE" MEANS A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE ASSEMBLY TO PCB. <sup>(3)</sup> THE RATED CURRENT APPLIES TO PER CONTACT.  Unless otherwise specified, refer to JIS-C-5402.			APPROVED	HS. OKAWA	12. 04. 10
			CHECKED	KI. HIROKAWA	12. 04. 09
			DESIGNED	AH. EDASHIGE	12. 04. 09
			DRAWN	AH. EDASHIGE	12. 04. 09
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-343465-00
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	FX18-100S-0.8SV15	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL579-0036-7-00	△ 1/1



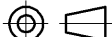



CROSS SECTION OF MATING(FREE)  
STACKING HEIGHT=15mm



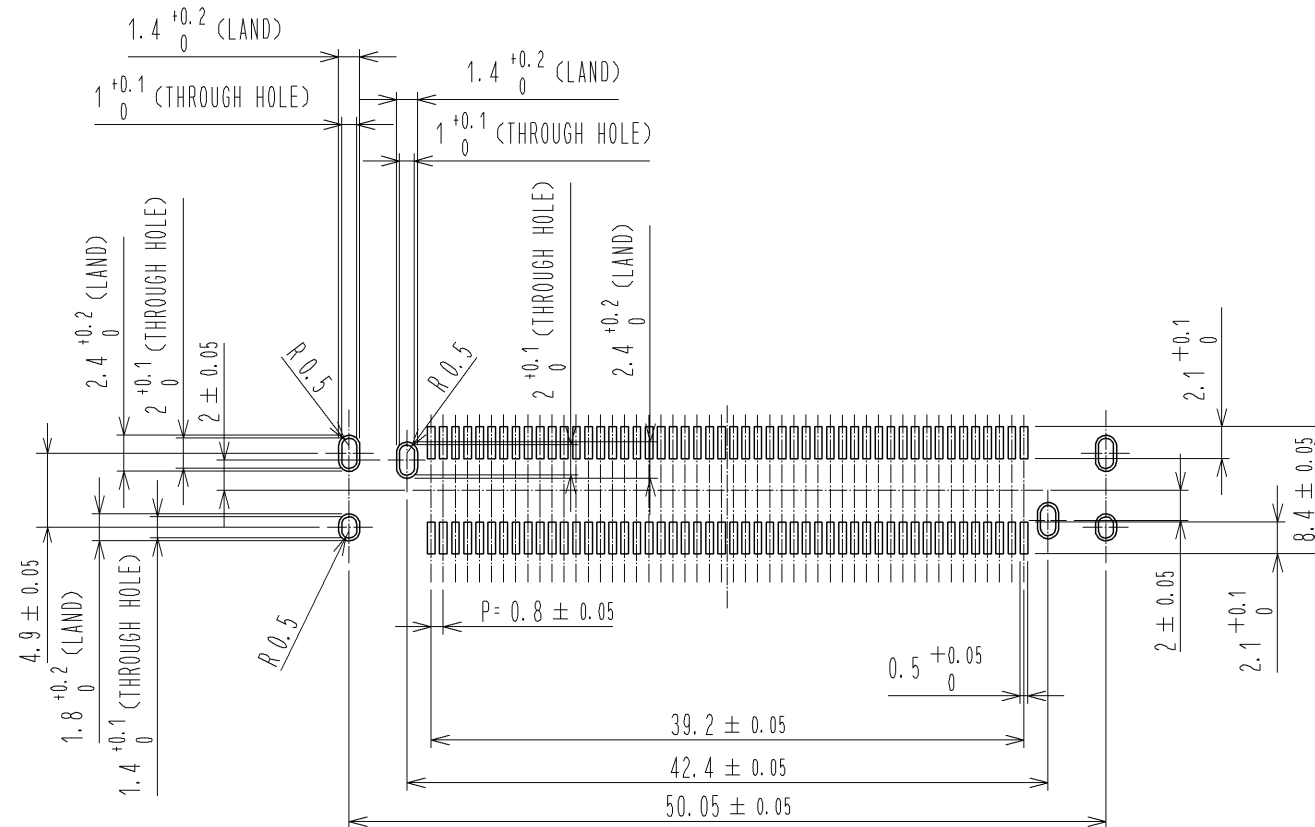
CROSS SECTION OF MATING(FREE)  
STACKING HEIGHT=25mm



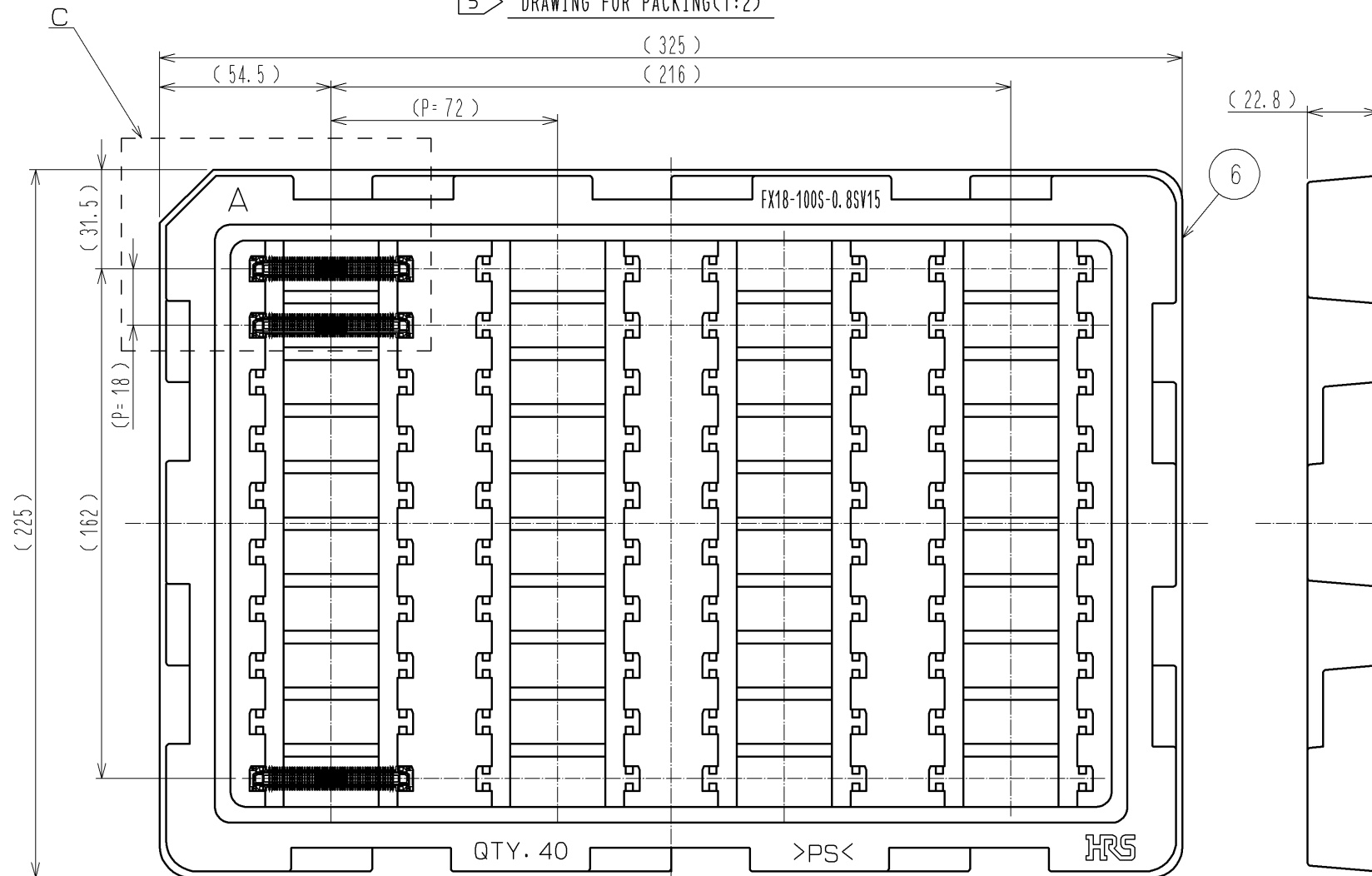
- NOTE 1 LEAD CO-PLANARITY IS 0.1mm MAX.  
2 CONTACTS ARE 3 STEPS SEQUENTIAL. (MF CONTACT A=>SIGNAL CONTACT=>MF CONTACT B)  
WHEN USING THIS SEQUENTIAL STRUCTURE, PLEASE AVOID ANGLED INSERTION.  
3 MF CONTACT A AND MF CONTACT B CAN BE USED AS POWER SUPPLY CONTACT. (3A/PIN MAX)  
4 IT SHOWS THE VACUUM PICKUP AREA. (SEE PAGE 2)  
REMOVE THE MYLAR TAPE BEFORE MATING CONNECTORS.  
5 THIS IS PACKAGED IN TRAY. (40pcs/TRAY)  
6 BLEMISH AND HIT MARK CAN BE OCCURED THROUGH OUT THE MANUFACTURING PROCESS WHICH DOESN' T AFFECT QUALITY LEVEL.  
7 THE DIMENSIONS IN PARENTHESES ARE FOR REFERENCES.

3	PHOSPHOR BRONZE	CONTACT AREA:GOLD 0.1 μm		5	COPPER ALLOY	LEAD AREA:TIN-PLATING 1 μm											
		LEAD AREA:GOLD 0.03 μm				UNDER PLATING:NICKEL 1.3 μm											
		UNDER PLATING:NICKEL 1.3 μm															
2	POLYAMIDE	BLACK UL94V-0		4	COPPER ALLOY	CONTACT AREA:GOLD 0.1 μm											
1	POLYAMIDE	BLACK UL94V-0				LEAD AREA:TIN-PLATING 1 μm											
						UNDER PLATING:NICKEL 1.3 μm											
NO.		MATERIAL		FINISH , REMARKS		NO.		MATERIAL		FINISH , REMARKS							
UNITS mm				SCALE 2 : 1				COUNT		DESCRIPTION OF REVISIONS		DESIGNED		CHECKED		DATE	
 HIROSE ELECTRIC CO., LTD.		APPROVED : HS. OKAWA		12.06.12		DRAWING NO.		EDC3-343465-00									
		CHECKED : KI. HIROKAWA		12.06.12		PART NO.		FX18-100S-0.8SV15									
		DESIGNED : AH. EDASHIGE		12.06.12		CODE NO.		CL579-0036-7-00									
		DRAWN : AH. EDASHIGE		12.06.12				 1/2									

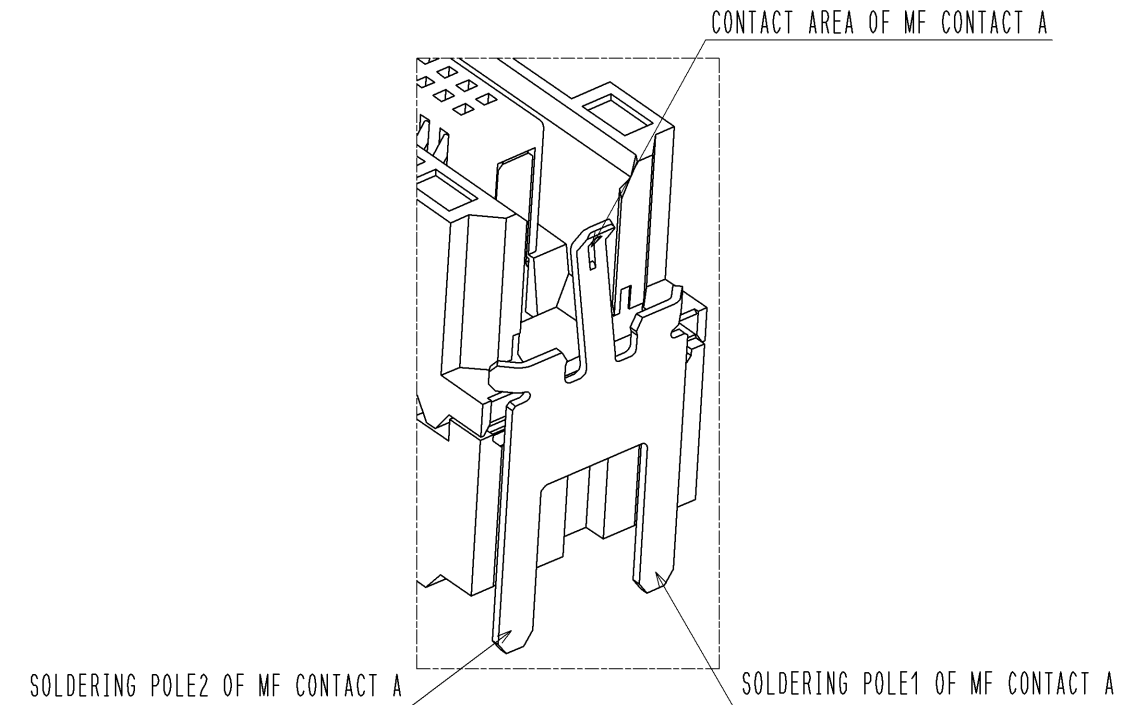
RECOMMENDED LAND PATTERN DIMENSION OF PCB(2:1)  
(PCB THICKNESS:  $t=1.6\text{mm}$  METAL MASK THICKNESS:  $t=0.12\text{mm}$ )



5 DRAWING FOR PACKING(1:2)

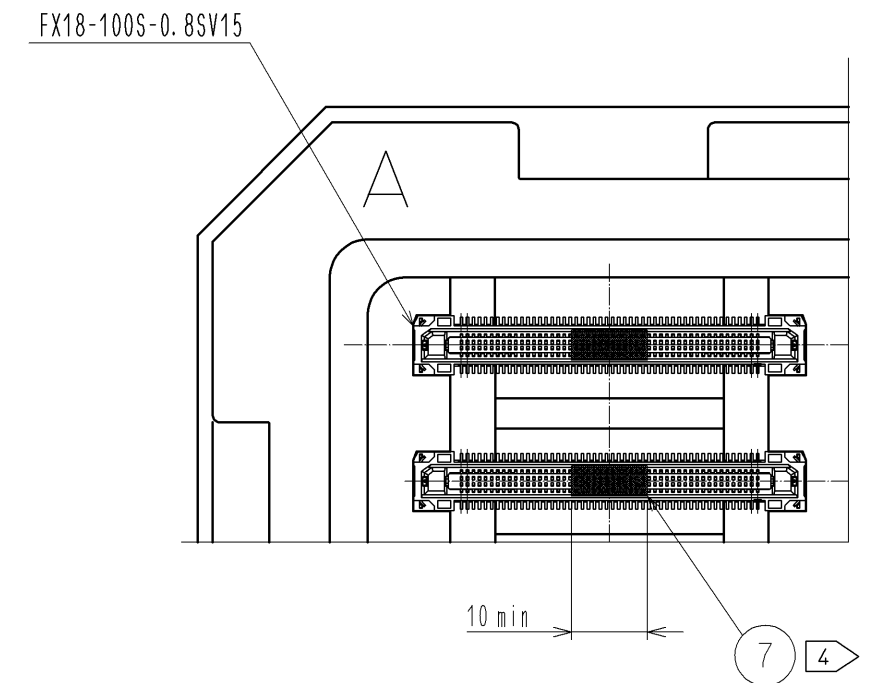


8 CONFIGURATION OF MF CONTACT A



NOTE 8 SOLDERING LEAD OF MF CONTACT A SPLITS INTO TWO POLES.  
BE SURE TO CONNECT TO THE SAME CIRCUIT.

C (1:1)



**HRS**

DRAWING NO.	EDC3-343465-00
PART NO.	FX18-100S-0.8SV15
CODE NO.	CL579-0036-7-00

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