			Control NO	E1003
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CK3 P	recision electronic co	., LID	Date Issued	2010/08/2
Documen	t SPEC-WB0811(H)/WB0818(H	I)/WB0820(H)/	Date Revised	2021/09/1
Name	WB0812(H) /0813(H)/ 0814(H)	.,	Revised Edition	A3
を更履历:				
版本号	变更内容	日期	制订	核准
A0	新版发行	2010/8/2	8 于小芳	Leo_he
A1	1. 测试项目更新 2.新增变更履历	2021/6/9	9 罗正辉	Leo_he
A2	1.新增料号 WB0821(H)	2021/7/2	9 罗正辉	Leo_he
A3	取消 WB0821(H)及修改原 材型号	2021/9/10	5 于小芳	Leo_he

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CR3 Pre	cision ele	ectronic Co., LTD	Date Issued	2010/08/28
Document	SPEC-WB08	311(H)/WB0818(H)/WB0820(H)/	Date Revised	2021/09/16
Name		0813(H)/ 0814(H)	Revised Edition	A3
五. REFLOW T 六. INSERTION 七. PRODUCT 八. TERMINAT 九. TERMINAT	IENTS JIREMENTS EMPERATU J/WITHDRA QUALIFICA ION DEPTH ION APPEA NMATING N	AN PROCEDURES SUMM RE PROFILE WAL FORCE TION AND TEST SEQUEN		r By
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CK2 Pre	cision electronic Co., LTD	Date Issued	2010/08/28
Document	SPEC-WB0811(H)/WB0818(H)/WB0820(H)/	Date Revised	2021/09/16
	WB0812(H) /0813(H)/ 0814(H)	Revised Edition	A3
C			

-. Scope

1.1. CONTENTS

This specification covers the performance, tests and quality requirements for the 0.8 mm pitch wire To board connector series

二. Applicable Documents

The following CRS documents form a part of this specification to the extent specified herein. Unless otherwise specified, the latest edition of the document applies. In the event of conflict between the requirements of this specification and the product drawing, the

product drawing shall take precedence. In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence.

三.Requirements

The product shall be designed to meet the electrical, mechanical and

environmental performance requirements specified in figure .

3.1. DESIGN AND CONSTRUCTION

Product shall be of the design, construction and physical dimensions specified on the applicable product drawing.

3.2. MATERIALS

	WB0811(H) WB0818(H) WB0820(H)						
NO	NO DIMENSIONS MATERIAL PLATING&COLOR						
1	Housing	LCP	UL94V-0				
2	PEG	Brass	MATTE TIN or Au PLATING				
3	terminal	Phosphor bronze	MATTE TIN or Au PLATING				

	WB0812(H) /0813(H) WB0814(H)						
NO DIMENSIONS MATERIAL PLATING&C							
1	Housing	PA66	UL94V-0				
2	terminal	Phosphor bronze	MATTE TIN or Au PLATING				

				Control NO	EI003
	aiaian al	antropia Ca I	тп	Issued BY	ED
CRS Precision electronic Co., LTD		Date Issued	2010/08/28		
Document	SPEC-WB0	811(H)/WB0818(H)/W	B0820(H)/	Date Revised	2021/09/16
Name		/0813(H)/ 0814(H)	Revised Edition	A3	
3.3. RATING	SS				
A. Curi	rent Rating:	0.7A AC,DC (P/N:WB0	811(H)-XXX	XXX ; AWG#32)	
		0.7A AC, DC(P/N:WB08	318(H)-XXX	(XX ; AWG#32)	
		0.7A AC, DC(P/N:WB08	820(H)-XXX	XX ; AWG#32)	
		0.5A AC,DC (P/N:WB0	812(H)-XX	XXX ; AWG#32)	
		0.3 A AC,DC (P/N:WB0		· · · · · · · · · · · · · · · · · · ·	
		0.3 A AC,DC (P/N:WB0	814(H)-XX	XXX ; AWG #36)	
B. Voli	tage Rating: 3	30V (AC.DC)			
	0 0	ce: Initial: $30m\Omega$ max			
		After environmental:			
D. I.					
D. Insl	liator Resista	nce: Initial 100M Ω m			
		After environmental	:100MΩ	min	
E. With	nstanding Vol	tage: 500v AC for 1 min	ute		
F. Ter	nperature Ra	nge: -40℃ ~+85℃			
G. App	olicable Wire:	WB0812(H)-XXXXX	AWG #32	2	
		WB0813(H)-XXXXX;	AWG #34		
		WB0814(H)-XXXXX;	AWG #36		
F. Insu	ulation O.D.:	WB0812(H)-XXXXX	∮0.38 ± 0	.02mm	
		WB0813(H)-XXXXX;	∮0.32 ± 0).02mm	
		WB0814(H)-XXXXX;	∮ 0.24 ± 0).02mm	
3.4. PERFO	RMANCE RE	QUEIREMENT AND T	EST DESC	RIPTION	

The product shall be designed to meet the electrical, mechanical and environmental performance requirements specified in figure .

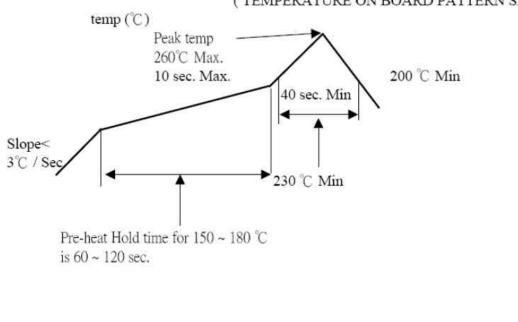
					Control NO	E1003
					Issued BY	ED
	CRS Precision el		cision	electronic Co., LID	Date Issued	2010/08/28
			SPEC-W	B0811(H)/WB0818(H)/WB0820(H	Date Revised	2021/09/16
				i) /0813(H)/ 0814(H)	Revised Edition	A3
P	Ц.	TEST RE	QUIRE	MENTS AND PROCED	OURES SUMM	ARY
	-	TEST DESCRII	PTION	REQUIREMENTS	PROCEDU	RES
	1 Examination of product		^F product	Meet requirements of product drawing	Visual, dimensional Per applicable quali plan	
		I		Electrical Requirement		
	2 Contact Resistance (Low Level)		ance	30mΩ Max Initial 40mΩ Max. After environmental	Mated connector, 2 Open circuit at 1 m/ Wire length:30mmE	A Max.
	3 Insulation Resistance		stance	100 MΩ Min	500V DC for 1 minute. Test between adjacent circuits and contact.EIA 364-21C	
	4 Dielectric withstanding Voltage		tanding	No Breakdown.	500V AC 1 minute. adjacent circuits and 364-20B	
				MECHANICAL REQUIREMENT		
	5	Vibration		No discontinuities 1 microsecond Or longer duration. Contact Resistance: 30mΩ Max Initial 40mΩ Max Final	Subject mated connect 10-55-10 Hz traversed minute at 1.52 mm and each of 3 mutually per planes, passing DC 5 during the test. MIL-S Method 201, ondition	d in 1 oplitude 2 hours rpendicular mA current TD-202,

				Control NO	EI003
		cision alactronic Co	חדו	Issued BY	ED
	CR3 FIE	cision electronic Co.,		Date Issued	2010/08/28
D	ocument	SPEC-WB0811(H)/WB0818(H)/	WB0820(H)/	Date Revised	2021/09/16
	Name WB0812(H) /0813(H)/ 0814(H)		ζ,	Revised Edition	A3
6	Physical shoc	Appearance :No dama No discontinuities 1 microsecond or longer duration. Contact Resistance: 30mΩ Max Initial 40mΩ Max Final	(5 ge ; wa Di Ni no Y pa 10 M	ccelerated Velocity: 50g) aveform: half-sine sh uration: 11msec. umber of Drops: 3 d ormal and reversed of and Z axes, totally 1 assing DC 00m A current during IIL-STD-202, Method ondition A	nock pulse rops each to directions of X, 8 drops, g the test.
7	Durability	Contact Resistance: 30mΩ Max Initial 40mΩ Max Final	30 10	ate and unmate sam C cycles at a speed o Otimes/min. IA-364-09C	•
8	Insertion And Force	Removal See item 6	ar Si	easure the force req nd unmate the conne peed: 25±3mm/min. IL-STD-134A,	ector.
9	Contact Rete	ntion Force 0.3kgf min/PIN	a a m	base contact shall l wafer and pulled in constant speed of 2 ninute. The Load to p ut of the wafer shall	alignment at 25 mm per oull the contact
9	Contact Rete	ntion Force 0.3kgf min/PIN	a a m	wafer and pulled constant speed o ninute. The Load t	in of 2 o p

					Control NO	F1002
					Control NO Issued BY	EI003 ED
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			NB0811(H)/WB0818(H)/WB08	20(H)/	Date Revised Revised Edition	
		WB0812	(H) /0813(H)/ 0814(H)			A3
10	10 Wire Retention Force		Parallel direction: AWG#32 : 0.50 kgf min. AWG#34 #36 :0.35 kgf min. Perpendicular direction: AWG#32 :0.15kg	betwe conta speed load t out of	g load shall be appl een a correctly termi oct and the wire at the d of 25mm per minu- to pull the wire f the contact or brea be measured. (1~5r	nated e constant te. The k the wire
			AWG#34 #36 :0.10kgf			
			min			
EN		AL:				
11	Temperature	Rise	<mark>▲ 30 ℃ Max</mark> .	Carryir	ng rated current load	J
12	Thermal shoc	k	Appearance: No damage Contact Resistance: 30mΩ Max Initial 40mΩ Max Final	cycles MIL-S 364-32 Test S (Afte standa hours .The c	ct mated samples between -45°C and TD-202G, Condition 2C Condition Qualifi Sequence Group 8 or test, recondition un ard atmospheric con contact resistance is ne initial value.)	85℃ AEIA cation and nder dition for 2
13	Salt Spray		No evident corrosion. Contact Resistance: 30mΩ Max Initial 40mΩ Max Final Insulation Resistance:100MΩ Min	35℃± AU<1U AU≥1U AU≥3U SN NI Zinc-ti Nickel See P Seque reconditi The co than th	ct mated samples. 2°C, 5+1% Salt cond J " 12H J "—3U "24H J "—5U " 48H : 12H n-nickel: 24H plating in stainless roduct Qualification ence Group 9 (After dition understandard ion for 2 hours ontact resistance is m ne initial value.) 54-26B condition B	steel: 24H and Test test, I atmospheric

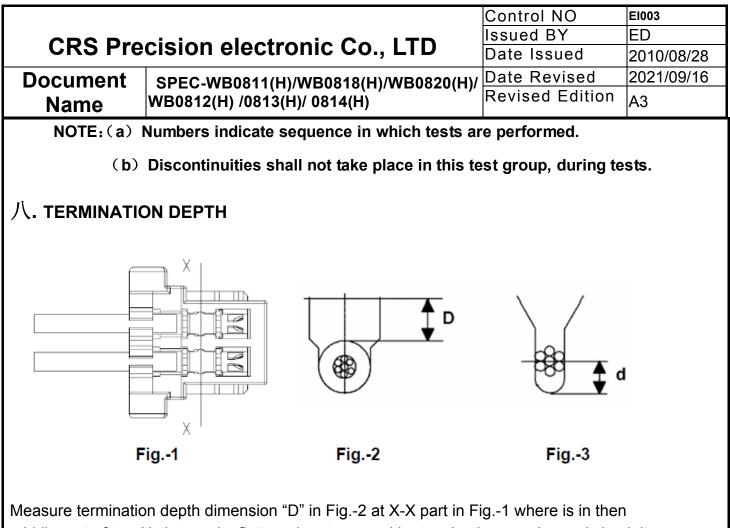
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	CR3 Pre	CISION	electronic Co., LTD)	Date Issued	2010/08/28
Document SPEC-W		SPEC-V	VB0811(H)/WB0818(H)/WB0820(H)		Date Revised	2021/09/16
	Name		(H) /0813(H)/ 0814(H)	()	Revised Edition	A3
14	Humidity		Contact Resistance: 30mΩ Max Initial 40mΩ Max Final Insulation Resistance:100MΩ Min	subject condit Tempo Relativ 48h See P Seque recond standa hours .The c greate MIL-S	connectors shall be sted to the following ion. erature: 55 °C ve humidity: 95% Du roduct Qualification ence Group 1 (After dition under ard atmospheric cond contact resistance is er than the initial valu TD-202 ethod Condition B	uration: and Test test, dition for 2 not
15	Cold Resistar		Contact Resistance: 30mΩ Max Initial 40mΩ Max Final Insulation Resistance: 100MΩ Min.	-40°C± After t atmos C0020 See P Seque recond standa hours .The c	connector. E2°C, 48 Hours. est, recondition und pheric condition for orduct Qualification ence Group 10 (After dition under ard atmospheric contect contact resistance is ne initial value.)	2 hours.JIS and Test er test, dition for 2
16	Temperature		Contact Resistance: 30mΩ Max Initial 40mΩ Max Final	life at Qualifi 11 (A standa hours .The c than th	ct mated samples to 85° for 48 hours.S ication and Test Sec fter test, recondition and atmospheric con- contact resistance is ne initial value.) 54-17B Condition A	ee Product quence Group under dition for 2

					Control NO	E1003
	CPS Dro	cisior	n electronic Co., LTD		Issued BY	ED
CR5 Precision					Date Issued	2010/08/28
Document SPEC-		SPEC-	WB0811(H)/WB0818(H)/WB08	20(H)/	Date Revised	2021/09/16
	Name	WB0812	2(H) /0813(H)/ 0814(H)		Revised Edition	A3
17			95% of immersed area must	Solder	ing time: 3+/-0.5 Se	ec
				Solder	temperature: 230+	/-5
	Solder-Abilit	.y	show	0.5 mn	n from Terminal tip a	nd fitting
			no voids, pin holes			5
18						
			Pre Heat: 150℃~180℃		d Reflow process n	
			60~120sec.	after th	ne Product temperat	ure has do
	Resistance t	o Reflow	Heat: 230°C Min., 40sec Min.	n condition.		
	Soldering		Peak Temp.: 260°CMax, 10sec	See Product Qualification and Te		
	Coldening	ricat	Max	Seque	nce Group 13	
			Reflow number cycle: 2 times			
D	EEI OW TE	MDED	ATURE PROFILE			
			AT ORE TROPILE			
				and the second second second	CONDITION GRAPH IN BOARD PATTERN	
			(TEMPERA temp (°C)	IUKEC	DOARD PATTERN	(SIDE)
			Peak temp			
			260°C Max.	\backslash		
			10 sec. Max.		200 °C Min	



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CK2 Pre	ecision electronic Co	0., LID	Date Issued	2010/08/28
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Name	WB0812(H) /0813(H)/ 0814(H)	Revised Editio	n A3
	N/WITHDRAWAL FORCE			
Number of	At i	nitial		At 30t h
circuit				
	I.F. (max.)kgf	R.F. (min.)kof R	.F. (min.)kgf
2	1.1 . (IIIa)Kg1			
3	1.5	0.2		0.15
4		0.2		0.15
5				
6				
7	2.0	0.35		0.25
8				
9				
10				
11				
12				
13				
14				
15	3.0	0.4	5	0.35
16				
17				
18				
19				
20				
22				
	Fig1		7ig2	

							Сс	ontro	N N)	E	1003	
CRS Precision elec	$\Delta \Delta \Delta t r \Delta h r $						Issued BY				ED		
					Date Issued				2010/08/28 2021/09/16				
							Date Revised Revised Edition				A3		
		UV g	lue										
Note:													
If need retention force more, You must	use th	e UV	glue										
七. PRODUCT QUALIFICA		N A	ND	RE	EQL	JAL	IFIC	АТ	ION	I TE	EST	•	
Test of Examination					Те	st Gr	oup						
	A	В	С	D	E	F	G	Н	I	J	K	М	N
		I			Test	Sequ		е			<u> </u>	I	<u> </u>
1. Examination of Product	1,9	1,5	1,7	1,3	1,3			1,9	1,9	1,9	1,9	1.3	1.3
2、Contact Resistance(Low Level)	2,6	2,4	2,6			2,4	2,4	2,6	2,6	2,6	2,6		
3、Insulation Resistance	3,7							3,7	3,7	3,7	3,7		
4、Dielectric withstanding Voltage	4,8							4,8	4,8	4,8	4,8		
5 Vibration		3											
6 Physical shock						3							
7、Durability			4										
8、Insertion And Removal Force			3,5										
9、Contact Retention Force				2									
10、Wire Retention Force.					2								
11 · Temperature Rise							3						
12 · Thermal shock								5					
13、Salt Spray									5				
14、Humidity							[
15 Cold Resistance										5			<u> </u>
16 · Temperature Life							[5		
17、Solder-Ability											1	2	
18 ৲ Resistance to Reflow Soldering Heat						<u> </u>							2
	 F	igure	2										



middle part of two U slots and a flattened part pressed by termination punch, and check it satisfies specified value in table

Exact termination depth is measure "d" between bottom of slot and position of center core wire of wire conductors as shown in Fig.-3 ; Aces specifies termination depth dimension "D" force to facilitate a time-consuming work of measuring "d" as a daily control.

Accordingly, dimension "D" becomes not reference value but control value for the use of the wire to be checked is Aces expect specified wires.

Wire Size	Insulation OD	Termination Depth D	d
AWG#32	Ф0.38±0.02mm	D=0.40±0.03mm	d=0.19±0.03mm

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	WB0812(H) /0813(H)/ 0814(H)		A3			
力. TERMINATION APPEARANCE						

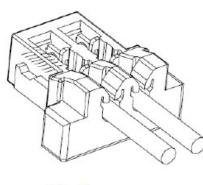
RMINATION APPEARANCE

Inspect the following points after termination.

9.1 Punching flaws on housing caused by termination punch; Housing must be free from flaws. When connector set position deviation, scratches and deformation caused by termination punch may appear at the diagonally shaded areas in Fig.-4.

9.2 Flaws and deformation at beams of contact. Beams must be free from flaws and dimension. When connector set position deviation to wire axis direction, scratches and deformation caused by termination punch may appear at beams of contact as shown in Fig.-5.

In this case, not only contact but also termination die may be damaged



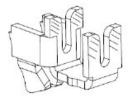
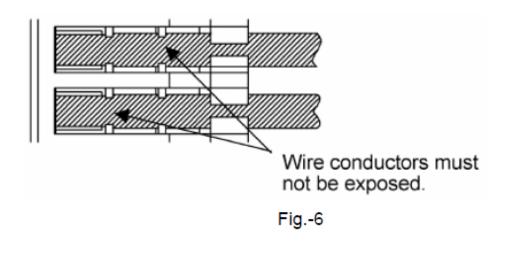
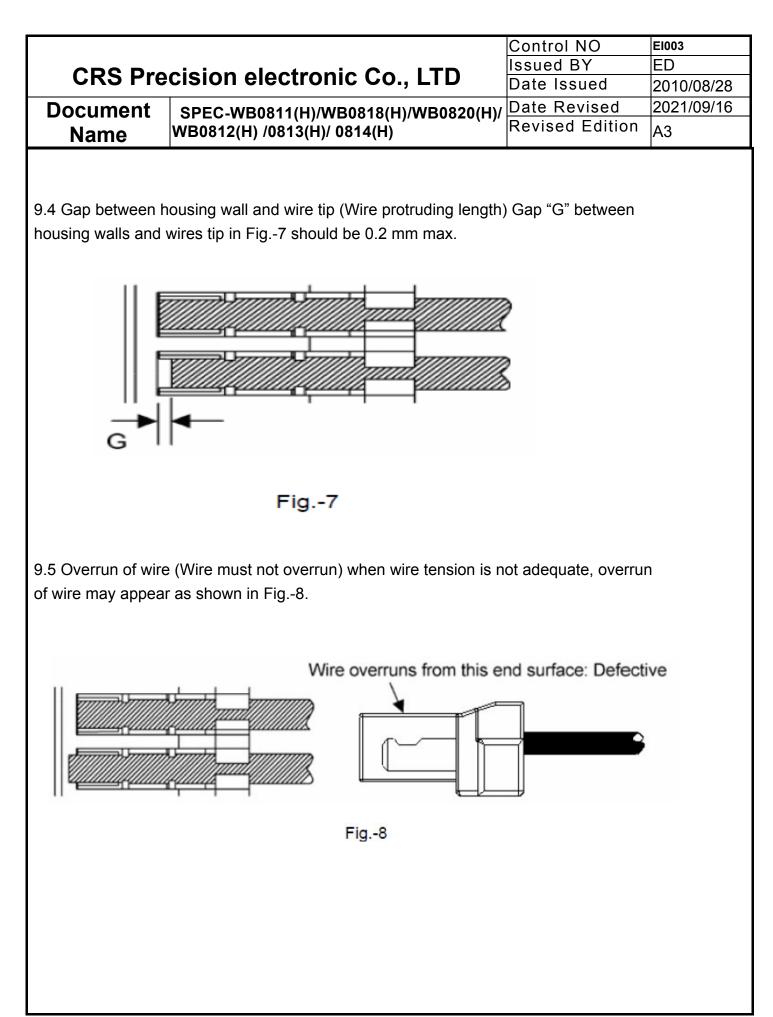


Fig.-4

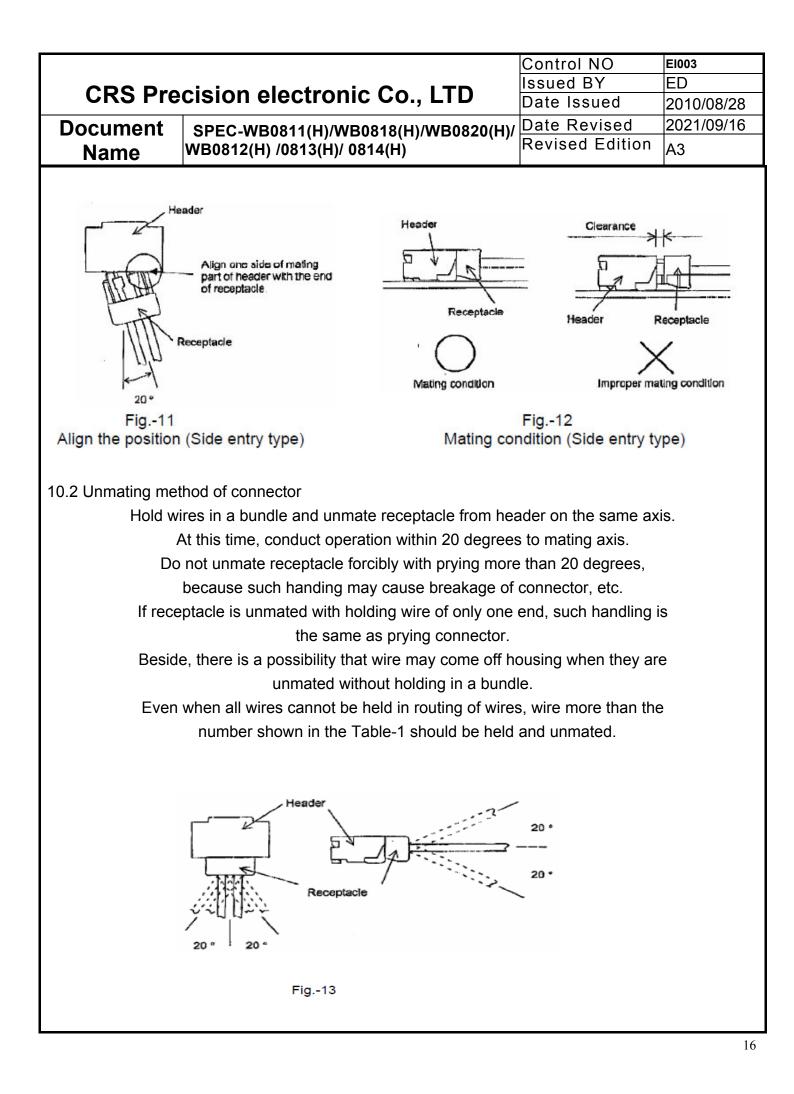


9.3 Exposure of wire conductors around beams of contact; Wire conductors must not be exposed. When connector set position deviates to wire axis direction, wire conductors may expose in front or back of beams of contact as shown in Fig.-6.





Control NO EI003 Issued BY ED **CRS Precision electronic Co., LTD** Date Issued 2010/08/28 Date Revised 2021/09/16 Document SPEC-WB0811(H)/WB0818(H)/WB0820(H)/ **Revised Edition** A3 WB0812(H) /0813(H)/ 0814(H) Name 9.6 Deviation of insulation displacement center (Deviation of insulation displacement center must not happen. When connector set position or wire deviates to pitch direction, termination punch, wire and U slots do not align so that insulation displacement center deviate as shown in Fig.-9 and Fig.-10 Wire conductors do not contact with the right side of U slot. Fig.-10 Fig.-9 +. MATING/UNMATING METHOD CONNECTOR 10.1 Mating method of connector Mated receptacle with header straight on same axis. When the position of mating part of header and receptacle is aligned, align one side of mating part of header with the end of receptacle within 20 degrees to mating axis as shown in Fig.-11. Do not mate receptacle at the angle of 20 degrees or more, because such handling may cause breakage of connector, etc. When position of receptacle and header is aligned, hold wires in a bundle in order to prevent applying external force to receptacle. Then, mate receptacle with header up to the back straight against mating axis. Besides, after mating operation, check that there is no clearance between header and receptacle as shown in Fig.-12, because such clearance may lead discontinuity of connector.



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Document SPEC-W		SPEC-W	/B0811(H)/WB0818(H)/WB0820(H)/ H) /0813(H)/ 0814(H)	Data Daviand	2010/08/28 2021/09/16 A3
С	KTS	3	Wires		
2	2		hold 2 wires without fail		
3,	3~5		hold more than 3 wires		
6	6~10 11~15		hold more than 4 wires		
1			hold more than 5wires		
16~20		0	hold more than 6 wires		
10.3 Routing of In routing wire,			ion is required so that tension more th	nan 1N may not be	

applied per connector and one wire (one circuit).