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Rev.	Count 4	Description EC(RE-2-			CHKD LHJ	2206.01	Rev.	Cou 4			(RE-2-2376)	BY OSW	CHKD LHJ	230905
2	2	EC(RE-2-			LHJ	2303.06	 / * \	1 4		EU	\.\. L Z Z J I U /	USVV	LIIU	كالكاللة
/3	3	EC(RE-2-			LHJ	230724	1							
		l.	Universal Seria				nd Connec	tor Sr	ecificatio	n Relea	ase 2.1	1	1	
	Applicable	standard									liance Document	Revision 2.1b		
		Voltage	/1\ 48V AC		.,,,,,									
		Voltago			or each	nower	nin (i.e. A	1 Δ/	Δ0 Δ1	2 R1 I	R4 R9 R12)			
Ra	ating	Cumant	1.25A max. fo	ax. 10	n caci	i power	рии (п.е., <i>г</i> .	(I, A 1	, AJ, A12	Z, D1, 1	D4, D9, D12/			
		Current				i (i.e., D)							
			0.25A. for the											
	Operating	condition	-40°C~+105°C					max.(I	Non-cond	ensing)				
	Storage of	condition	-10°C~+60°C	With	packir	ng), 15%`	70% RH							
						SPECI	FICATIO	ONS						
No	TE	ST ITEM			TEST	METHO	OD				TEST REQUIR	EMENT	QT	AT
CONS	TRUCTION						<u> </u>							
00110	111001101	•	EIA 364-18							1			1	
1	Examina	tion of product	Visual inspection	n						No p	hysical damage.		0	0
	DICAL OI	LADAOTEDICTI		11									1	
ELEUI	RICAL CF	HARACTERISTI								1			1	1
			EIA 364-23	.,										
			Measure at 20n		•									
_	Low Le	evel Contact	at 100mA max.							Initia	ıl : 40mΩ max		_	
2	Re	sistance	4-wire measure							Afte	r test : 50mΩ max	Κ	0	_
			the resistance											
			shall be deducte	ed fro	m the r	eading.								
										-			1	
			EIA 364-20											
	Dielectri	c Withstanding	Measure per Me		B with									
3		/oltage	unmated condit	on.						No d	isruptive dischar	ge.	0	_
	`		100V AC RMS	or 1 n	minute	at sea lev	/el.							
										<u> </u>			1	
			EIA 364-21											
4	Insulation	on Resistance	500V DC with u	nmate	ed and	mated co	ndition.			1001	/IΩ min.		0	-
			IEC60529, EIA-											
			A current of 1											
			pins (i.e., pins A											
5	Tomp	aratura Diaa	Vconn pin (i.e.,	35 of	the plu	g connec	tor) with th	he reti	ırn path	Tem	perature rise sha	ll not exceed	0	_
3	rempe	erature Rise	through the cor	respoi	nding G	ND pins	(i.e., pins A	1, A12	2, B1,	30°C	;			
			and B12). A mir	imum	curren	t of 0.25	A shall also	o be a	pplied					
			individually to a											
MECH	ANICAL C	HARACTERIST	ICS											
						· · · · · · · · · · · · · · · · · · ·								
	-		EIA 364-13							Initia	ıl & after test :		_	
6	Inse	rtion force	Measure at 12.5	imm/r	minute	min.				5N ~			0	_
			moddard at 12.0	/ 1						0.1				
			1							1				1
			1							Initia	ıl : 8N ~ 20N			
7	Evtro	ction force	EIA 364-13								r test : 6N ~ 20N	(with virgin	0	_
′	⊏xtra	CHOIL IOLGE	Measure at 12.5	mm/r	minute	min.						with virgin		1 -
			1							plug)	•			
			1							1			1	1
			1											
8 Durability EIA 364-09 Mated 10,000 times Mechanically operated: 500cycles/hr Mating stroke: 2.75mm														
				cycles/hr	-			 						
							No p	hysical damage.		0	_			
Insertion, extraction force shall be measured at a			atar	naximum										
			speed of 12.5mi			an DG		a 1	uxiiiiuiii					
			5p000 01 12.01111	/										
														1
Remar	ks					1	Drawr	n	Desig	ned	Checked	Approved	l R	elease
. willall						-	VDDAI		VPD		UIIECKEU	Approved		DEPT

Remarks	Drawn	Designed	Checked	Approved	Release	
		Y.B.PARK	Y.B.PARK	H.J.LEE	H.J.LEE	DEPT
	21.08.05	21.08.05	21.08.05	21.08.05	23.09.05 ENG	
[Note] QT : Qualification test, AT : Assurance	e test, O : Applicable, - : Not a	applicable				
Drawing No.	CL No.		Part No.			
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CX90BW-16P*

HIROSE KOERA.CO.,LTD

PRODUCT SPECIFICATION

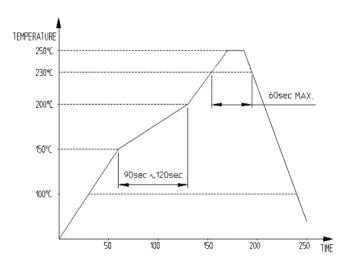
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ENVIF	ENVIRONMENTAL CHARACTERISTICS							
9	Random Vibration	EIA 364-28 Test Condition VII, Test Letter D Mated specimens to 3.10 G's RMS between 20 to 500Hz 15 minutes in each of 3 mutually perpendicular planes.	No physical damage. No discontinuity of 1μ s of longer duration when mated connector during test.	0	ı			
10	Temperature Life	EIA 364-17, Method A 105°C without applied voltage for 120 hours.	No physical damage.	0	-			
11	Cyclic Temperature and Humidity	EIA 364-31 25±3°C at 80±3% RH for 1 hour. 65±3°C at 50±3% RH for 1 hour. Thermal ramp: 0.5 hour Number of cycles: 24 cycles	No physical damage.	0	-			
12	Thermal Shock	EIA 364-32 10 cycles -55°C and +105°C	No physical damage.	0	-			
13	Solderability	EIA 364-52 Dwell in 245±5°C of the solder bath for 5 sec.	Solder coverage shall be 95% min. of the immersed surfaces.	0	-			
14	Salt Spray	EIA 364-26 5% of NaCl in 35°C for 48 hours.	No corrosions that affect to the connector operation.	0	-			
15	High Temperature and Humidity	EIA-364-31 High-temperature 85°C/85% RH for 120 hours.	No physical damage. No change to performance.	0	1			
16	Mixed Flowing Gas	EIA 364-65 Measure Environment 30°C/70%RH CL2 10±3ppb, No2 200±50ppb, H2S 10±5ppb, SO2 100±20ppb Expose half of sample mated for 1/3 days and then unmated for 2/3 days .The others are exposed mated for full 7 days test period.	No corrosions that affect to the connector operation.	0	1			
17	(Water resistance	Conduct the IP code test according to the corresponding P/N as shown as Table.1 ① IPX4 IEC60529 No matter which direction the water splashes on the enclosure, it must be waterproof. Duration: 10minutes at least. Water volume: 10L/min Pressure: 50~150KPa ② IPX8 IEC60529 Immersion in the water at the depth of 1.5m for 30min	No water leakage.	0	_			

[Note] QT : Qualification test, AT : Assurance test, O : Applicable, - : Not applicable						
Drawing No.	CL No.		Part No.			
ELC4-633131-00	CL ****	-***	CX90BW-16P*			
HIS HIROSE KOERA.CO.,	LTD	PRODUC	T SPECIFICATION	2/5		

18	<u>Å</u> Dust resistance	Conduct the IP code test according to the corresponding P/N as shown as Table.1 ① IP5X IEC60529 Duration: 8hours at least. Amount of talcum powder of the test chamber: $2kg/m^3$ Dust type: Talcum Powder (less than $75\mu\text{m}$) ② IP6X IEC60529 Duration: 8hours at least. Amount of talcum powder of the test chamber: $2kg/m^3$ Dust type: Talcum Powder (less than $75\mu\text{m}$) Dust type: Talcum Powder (less than $75\mu\text{m}$)	No ingress of dust to cause functional problems No ingress of dust	0	-
19	Reflow Heat	Reflow profile Fig.1 Peak 250°C max for 10 sec 2 times.	No deformation of mold No shape of blister and popcorn	0	-

REMARKS



[Note] QT : Qualification test, AT : Assurance test, O : Applicable, - : Not applicable						
Drawing No.	CL No.		Part No.			
ELC4-633131-00	CL ****	-***	CX90BW-16P*			
ITS HIROSE KOERA.CO.,	LTD	PRODUC	T SPECIFICATION	3 5		

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🛆 Qualification Test Sequence Table												
^							Test Grou	р				
No	Test item 🖄	A	В	С	D	E	F	G	н	I	J	К
1	Examination of product	1, 7	1, 15	1, 7	1, 7	1, 7	1, 3	1, 7	1, 7	1, 7	1, 4	1, 9
2	Low Level Contact Resistance	3, 6	3, 14	3, 6	3, 6	3, 6		3, 6	3, 6	3, 6		3, 8
3	Dielectric Withstanding Voltage		4, 12									
4	Insulation Resistance		5, 11									
5	Temperature Rise										3	
6	Insertion force		6, 10									
7	Extraction force		7, 9									
8	Durability		8									4
9	Random Vibration	4										
10	Temperature Life			4								
11	Cyclic Temperature and Humidity				4							
12	Thermal Shock					4						5
13	Solderability						2					
14	Salt Spray							4				
15	High Temperature and Humidity								4			6
16	Mixed Flowing Gas									4		
17	⚠ ∕3 Water resistance	5	13	5	5	5		5	5	5		
18	Dust resistance											7
19	Reflow Heat	2	2	2	2	2		2	2	2	2	2
REMAI	DKS	- 1										

REMARKS

1) Numbers in the table above indicate the sequence corresponding to each test group.

[Note] QT : Qualification test, AT : Assurance test, O : Applicable, - : Not applicable						
Drawing No.	CL No.		Part No.			
ELC4-633131-00	CL ****	-***	CX90BW-16P*			
HIROSE KOERA.CO.,	LTD	PRODUC	T SPECIFICATION	4 5		

[Table. 1] CX90BW-16P* Series P/N List 3

No.	P/N	Code No.	⚠ IP Code
1	CX90BW-16P	CL 6246-0002-0-000	IP54
2	CX90BW-16P(001)	CL 6246-0002-0-001	IP54
3	CX90BW-16P1	CL 6247-0004-1-000	IP68

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[Note] QT : Qualification test, AT : Assurance test, O : Applicable, - : Not applicable				
Drawing No.	CL No.		Part No.	
ELC4-633131-00	CL ****-***-*-**		CX90BW-16P*	
HIROSE KOERA.CO.,LTD		PRODUCT SPECIFICATION 5		5 5