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Ã	1		wing(RE-2-2167)	KYG	LHJ	23.03.06	70	•		LO(NL 2 2070)		LITO	200000	
2	3		RE-2-2337)	KYG	LHJ	23.0724								
Ap	plicable st	andard	Universal Seri	al Bus Ty	pe-C Co	nnectors a	nd Cable	Assemblies	Com	pliance Document Revision	n 2.1b	I		
		Voltage	48V AC/DC							•				
R	ating			max. for each power pin (i.e., A1, A4, A9, A12, B1, B4, B5, B9, B12)										
Current			0.25A max. f	or the of	hers.									
Op	erating co	ndition	-40°C~+105	°C(Includ	ng temp.	rise), 95%	RH max	.(Non-cond	lensing	g)				
S	torage con	dition	−10°C~+60°C	C(With pa	acking),	15%~70% l	RH							
						SPECIF	ICATIO	DNS						
No	No TEST ITEM TEST METHOD				TEST REQUIREM	ENT	QT	AT						
					IES	WETHO				TEST REQUIREM	CIN I	QΊ	Ai	
CONS	TRUCTION	l							ı			ı	ī	
1	Genera	l examination	EIA 364-1	-						No physical damage		0	0	
			Visual ins	pection										
ELEC	RICAL CH	IARACTERI	STICS						Г			1		
2		evel contact sistance	at 100mA 4-wire me	easure at 20mV max open circuit 100mA max. (DC or 1000Hz) wire measurement is required and					Initial : $40m\Omega$ max After test : $50m\Omega$ max		0	-		
				he resistance of PCB termination hall be deducted from the reading.										
3		ectric withstanding Measure per Method B with unmated condition. 100V AC RMS for 1 minute at sea level.			No disruptive discharge.		0	-						
4	Insulatio	on resistance	EIA 364-2 500V DC		ated and	mated con	dition.			100MΩ min.		0	-	
5	5 Temperature rise I nin (i.e. R5 of the plug connector) with the return nath through I			Temperature rise shall no 30°C	ot exceed	0	-							

No	TEST ITEM	TEST METHOD	TEST REQUIREMENT	QT	AT
MECH	IANICAL CHARACTERISTI	CS			
6	Insertion force EIA 364-13 Measure at 12.5mm/minute min.		Initial & after test : 5N ~ 20N	0	1
7	Extraction force	EIA 364-13 Measure at 12.5mm/minute min.	Initial: 8N ~ 20N After test: 6N ~ 20N (with virgin plug)	0	-
8	Durability	EIA 364-09 Mated 10,000 times Mechanically operated: 500cycles/hr Mating stroke: 2.75mm Insertion, extraction force shall be measured at a maximum speed of 12.5mm/min	No physical damage.	0	-

Remarks		Drawn	Designed	Checked	Approved	Release		
		Y.G.KIM	Y.G.KIM	Y.B.PARK	H.J.LEE	ENG		
		22.12.20	22.12.20	22.12.20	22.12.20	23.09.05 DFPT		
[Note] QT : Qualification test, AT : Assurance	[Note] QT : Qualification test, AT : Assurance test, O : Applicable, - : Not applicable							
Drawing No.	CL No.		Part No.					
ELC4-633753-00	CL ****-***	-*-**		CX90BV	V1−24P*			

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PRODUCT SPECIFICATION

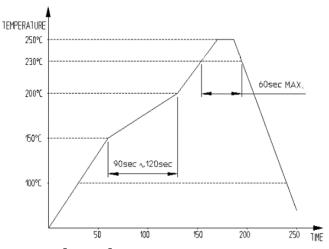
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ENVIF	RONMENTAL CHARACTER	RISTICS			
9	Random vibration	EIA 364-28 Test Condition VII, Test Letter D Mated specimens to 3.10 G's RMS between 20 to 500Hz 15 minutes in each of 3 mutually perpendicular planes.	No physical damage. No discontinuity of over than 1 μ s.	0	-
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	ı
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. Test with soldered condition on the PCB.	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	-
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	-
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.			
ELC4-633753-00	CL ****-***	-*-**	CX90BW1-24P*			
HIROSE KOERA	.CO.,LTD	PF	RODUCT SPECIFICATION	2 5		

18	☑ 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 75μ 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 75μ m) Dust type: Talcum Powder (less than 75μ m)	No ingress of dust to cause functional problems No ingress of dust	0	ı	
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



[Fig.1] REFLOW TEMPERATURE

[Note] QT : Qualification test, AT : Assurance test, O : Applicable, - : Not applicable						
Drawing No.	CL No.		Part No.			
ELC4-633753-00	CL ****-***	-*-**	CX90BW1-24P*			
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		<u></u>	est Se	quence	e Table	•						
						٦	Test Grou	p				
No	D Test item	A	В	С	D	E	F	G	н	I	J	κ
1	General examination	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									
1 2 3 3 4 4 5 5 6 6 7 7 6 8 8 9 10 10 11 11 11 11 11 11 11 11 11 11 11	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							
	2 Thermal shock					4						5
13	Solderability						2					
14	Salt spray							4				
15	High temperature and humidity								4			6
16	Mixed flowing gas									4		
13 14 15 16 17 18	Water resistance	5	13	5	5	5		5	5	5		
18	B Dust resistance											7
19	Reflow heat	2	2	2	2	2		2	2	2	2	2

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.			
ELC4-633753-00	CL ****-***	-*-**	CX90BW1-24P*			
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[Table. 1] CX90BW1-24P* Series P/N List 🛆

No.	P/N	Code No.	⅓ IP Code
1	CX90BW1-24P	CL 6247-0001-3-000	IP54
2	CX90BW1-24P1	CL 6247-0003-9-000	IP68

[Note] QT : Qualification test, AT : Assurance test, O : Applicable, - : Not applicable						
Drawing No.	CL No.		Part No.			
ELC4-633753-00	CL ****-***	-*-**	CX90BW1-24P*			
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