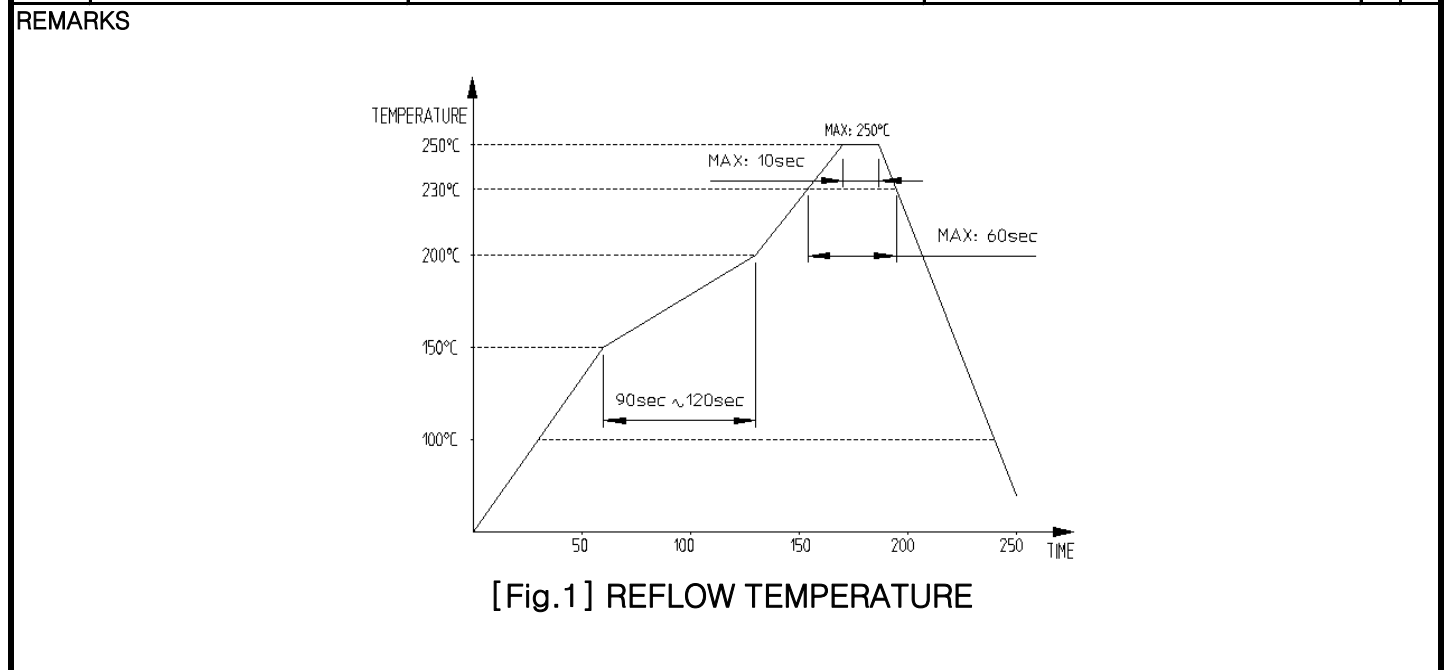


REV	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	REV	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
①	-	Revised	BJH	LHJ	19.06.12	③	-	Revised	KYG	LHJ	21.08.23
②	-	RE-2-1343 (Released)	PMC	LHJ	19.09.30	④	-	Revised	KYI	LHJ	21.12.16
APPLICABLE STANDARD		Universal Serial Bus Type-C Cable and Connector Specification Release 2.1 Universal Serial Bus Type-C Connectors and Cable Assemblies Compliance Document Revision 2.1b									
RATING		CURRENT	1.25A Max. for each power pin (A1, A4, A9, A12, B1, B4, B5, B9, B12) 0.25A for the other pins								
		VOLTAGE	48V AC/DC								
OPERATING CONDITION		-40℃ ~ +105℃ (INCLUDING TEMP. RISE), 95% RH max. (NON-CONDENSING)									
STORAGE CONDITION		-10℃ ~ +60℃ (WITH PACKING), 15% ~ 70% RH									
Para.	Test Description		Test Procedure			Test Requirement			QT	AT	
1	Examination of product		EIA 364-18 Visual inspection			No physical damage.			O	O	
Electrical Requirements											
2	Low Level Contact Resistance		EIA 364-23 Measure at 20mV max open circuit at 100mA max. (DC or 1000Hz) 4-wire measurement is required and the resistance of PCB termination shall be deducted from the reading.			Initial : 40mΩ max After test : 50mΩ max			O	-	
3	Dielectric Withstanding Voltage		EIA 364-20 Measure per Method B with unmated condition. 100V AC RMS for 1 minute at sea level.			No disruptive discharge.			O	-	
4	Insulation Resistance		EIA 364-21 500V DC with unmated and mated condition.			100MΩ min.			O	-	
Mechanical Requirements											
5	Insertion force		EIA 364-13 Measure at 12.5mm/minute min.			Initial & After test : 5N ~ 20N (with virgin plug)			O	-	
6	Extraction force		EIA 364-13 Measure at 12.5mm/minute min.			Initial : 8N ~ 20N After test : 6N ~ 20N (with virgin plug)			O	-	
7	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.			O	-	
8	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 1μs of longer duration when mated connector during test.			O	-	
REMARKS					DRAFT	DESIGN	CHECK	APPROVAL	RELEASE		
					S.H.LIM 19.03.20	S.H.LIM 19.03.20	H.J.LEE 19.03.20	H.J.LEE 19.03.20			
NOTE) QT : QUALIFICATION TEST, AT : ASSURANCE TEST, O : Applicable Test											
DWG NO			CL NO			PART NO					
ELC4-632698			CL 6240-0024-4			CX90B-16P					
						PRODUCT SPECIFICATION				1 3	

Para.	Test Description	Test Procedure	Test Requirement	QT	AT
Environmental Requirements					
9	Temperature Life	EIA 364-17, Method A 105°C without applied voltage for 120 hours.	No physical damage.	O	-
10	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.	O	-
11	Thermal Shock	EIA 364-32, Test Condition I 10 cycles -55°C and +105°C	No physical damage.	O	-
12	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.	O	-
13	Salt Spray	EIA 364-26 5% of NaCl in 35°C for 48 hours.	No corrosions that affect to the connector operation.	O	-
14	Co-planarity	Measure co-planarity of each contact lead.	Co-planarity shall be 0.08 max. before & after reflow 2 times.	O	-
15	Reflow test	Reflow profile [Fig.1] Peak 250°C max for 10 sec 2 times.	No deformation of mold No shape of blister and popcorn	O	-



NOTE) QT : QUALIFICATION TEST, AT : ASSURANCE TEST, O : Applicable Test					
DWG NO ELC4-632698		CL NO CL 6240-0024-4		PART NO CX90B-16P	

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Qualification Test Sequence Table									
Para.	Test Description	Test Group							
		A	B	C	D	E	F	G	H
1	Examination of product	1, 6	1, 14	1, 6	1, 6	1, 6	1, 3	1, 6	1, 4
2	Low Level Contact Resistance	3, 5	3, 13	3, 5	3, 5	3, 5		3, 5	
3	Dielectric Withstanding Voltage		4, 12						
4	Insulation Resistance		5, 11						
5	Insertion force		6, 10						
6	Extraction force		7, 9						
7	Durability		8						
8	Random Vibration	4							
9	Temperature Life			4					
10	Cyclic Temperature and Humidity				4				
11	Thermal Shock					4			
12	Solderability						2		
13	Salt Spray							4	
14	Co-planarity								3
15	Reflow Test	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 Test									
DWG NO ELC4-632698			CL NO CL 6240-0024-4			PART NO CX90B-16P			
HRS HIROSE KOREA.CO.,LTD				PRODUCT SPECIFICATION					3 3