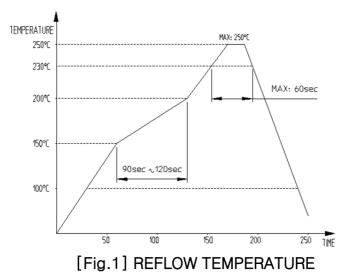
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REV	COUNT	DESC	RIPTION OF REV	ISIONS	BY	CHKD	DATE	REV	COUNT	DES	CRIPTION OF REV	ISIONS	BY	CHKD	DA	ΙTΕ
∅	_	Prelimi	nary drawing		CJS	LHJ	23.08.23	\triangle								
\triangle	- Revised				CJS	LHJ	23.08.25									
	APPLIC	ABLE	STANDARD		Universal Serial 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°C ~ +105°C (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	ΑТ	
1	1 Examination of product				IA 364-18 isual inspection					N	No physical damage.				0	0
Elect	rical R	eauire	ments		_											
Electrical Requirements Low Level Contact Resistance			· · · · · · · · · · · · · · · · · · ·						Initial: 40mΩ max for each contact After test: 50mΩ max for each contact					ı		
3	Dielectric Withstanding Voltage			EIA 364-20 Measure per Method B with unmated condition. 100V AC RMS for 1 minute at sea level.					N	No disruptive discharge.					1	
4 Insulation Resistance			EIA 364-21 500V DC with unmated and mated condition.					11	100MΩ min.				0	-		
Mech	anical	Reaui	rements													
l b I incortion torco I					EIA 364-13 Measure at 12.5mm/minute min.						Initial: 5N ~ 20N After test: 5N ~ 20N (with virgin plug)				0	_
6	Extraction force			EIA 364-13 Measure at 12.5mm/minute min.					Initial: 8N ~ 20N After test: 6N ~ 20N (with virgin plug)				0	-		
7	7 Durability				EIA 364-09 Mated 10,000 times Mechanically operated : 500±50cycles/hr Mating stroke : 2.75mm Insertion, extraction force shall be measured at a maximum speed of 12.5mm/min				١	No physical damage.				0	1	
8	R	andom	Vibration	Test Co Mated betwee 15 min	A 364-28 st Condition VII, Test Letter D ted specimens to 3.10 G's RMS tween 20 to 500Hz minutes in each of 3 mutually rpendicular planes.					0	No physical damage. No discontinuity of 1µs of longer duration when mated connector during test.					1
REMARKS							DR/	AFT	DES	SIGN	CHECK	APPF	ROVAL	RELE	AS	E
					J.S.	СНО	J.S.	СНО	S.K.JANG	H.J	.LEE					
						23.0	8.23	23.0	8.23	23.08.23	23.0	8.23				
NOTE) QT: QUALIFICATION TEST, AT: ASSURANCE TEST, O: Applicable Test																
DWG NO CL NO CL NO CL NO CL NO					246-	246-0004-5				NO CX90B2-24P1						
HS HIROSE KOREA.CO.,LTD				PRODUCT SPECIFICATION 1/2												

Para.	Test Description	Test Procedure	Test Requirement	QT	ΑТ
Enviro	onmental Requirements				
9	Temperature Life	EIA 364-17, Method A 105°C without applied voltage for 120 hours.	No physical damage.	0	-
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.	0	-
11	Thermal Shock	EIA 364-32, Test Condition I 10 cycles -55°C and +105°C	No physical damage.	0	_
12	Solderability	EIA 364-52 Dwell in 245±5℃ of the solder bath for 5 sec.	Solder coverage shall be 95% min. of the immersed surfaces.	0	1
13	Salt Spray	EIA 364-26 Sample Condition: Reflow Soldered on PCB 5% of NaCl in 35°C for 48 hours.	No corrosions that affect to the connector operation.	0	-
14	Mixed Flowing Gas	EIA 364-65 Measure Environment 30°C/70%RH CL ₂ 10±3ppb, No ₂ 200±50ppb, H ₂ S 10±5ppb, SO ₂ 100±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	
15	Temperature Rise	EIA-364-70, method B A current of 5.0 A shall be applied collectively to VBUS pins (i.e., pins A4, A9, B4, and B9) and 1.25 A applied to the Vconn pin (i.e., B5 of the plug connector) with the return path through the corresponding GND pins (i.e., pins A1, A12, B1, and B12). A minimum current of 0.25 A shall also be applied individually to all the other contacts.	Temperature rise shall not exceed 30℃	0	_
16	Reflow heat	Reflow profile [Fig.1] Peak 250°C max for 10 sec 2 times.	No deformation of mold No blister and popcorn	0	-

REMARKS



NOTE) QT: QUALIFICATION TEST, AT: ASSURANCE TEST, O: Applicable Test

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Qualification Test Sequence Table											
Dava	T . D	Test Group									
Para.	Test Description	А	В	С	D	E	F	G	Н		
1	Examination of product	1, 6	1, 8	1, 7	1, 7	1, 14	1, 3	1, 6	1, 6		
2	Low Level Contact Resistance	3, 5	3, 5, 7	3, 4, 6	3, 4, 6	5, 13		3, 5	3, 5		
3	Dielectric Withstanding Voltage					4, 12					
4	Insulation Resistance					3, 11					
5	Insertion force					6, 10					
6	Extraction force					7, 9					
7	Durability					8					
8	Random Vibration			5							
9	Temperature Life	4									
10	Cyclic Temperature and Humidity		6								
11	Thermal Shock		4								
12	Solderability						2				
13	Salt Spray							4			
14	Mixed Flowing Gas				5						
15	Temperature Rise								4		
16	Reflow Heat	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

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