	왁
	Ë
	<u>•</u>
	$\sim$
	Ξ
	$\approx$
	ä
	ă
	<u></u>
	╮
	×
	٠
	≥
	0
	ᠣ
	$\subseteq$
	∵5
	>
	S
	Φ
	╦
	õ
	_
_:	$\supset$
Ö	Ō
Φ	_
2	O
ā	g
Ō	₻
Φ	ō
Y	ರ
	_
22	€
$\subseteq$	Q
O	.⊆
$\overline{}$	¥
_	
=	≥
⋖	☱
	∹
7	∺
=	≌
_	Φ
_	_
٠.	$\overline{}$
ر	O
)	=
٠.	_
ر	፵
$\overline{}$	⊆
_	Ø
▔	ݖ
ر	Φ
Ц	ਰ
_	$\overline{}$
ᆸ	등
1	달
ă L	vhich
	which
	e which
	ice which
HACONE EL	vice which
HINONE EL	evice which
4 HIRONE EL	device which
Z4 HIROSE EL	/ device which
UZ4 HIROSE EL	it / device which
2024 HIROSE EL	ent / device which
I ZUZ4 HIROSE EL	nent / device which
INT 2024 HIROSE EL	ment / device which
Ignt 2024 HIROSE EL	pment / device which
/rignt 2024 HIROSE EL	uipment / device which
Jyright 2024 HIROSE EL	quipment / device which
opyright 2024 HIROSE EL	equipment / device which
opyright 2024 HIROSE EL	equipment / device which
Copyright 2024 HIROSE EL	ve equipment / device which
4 Copyright 2024 HIROSE EL	tive equipment / device which
24 Copyrignt 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.	otive equipment / device which demand high reliability. kindly contact our sales window correspondents.
UZ4 Copyright 2UZ4 MIROSE EL	notive equipment / device which
.2024 Copyright 2024 HIROSE EL	omotive equipment / device which
1.2024 Copyright 2024 HIROSE EL	tomotive equipment / device which
r. 1.2024 Copyrignt 2024 HIROSE EL	utomotive equipment / device which
pr.1.2024 Copyrignt 2024 HIROSE EL	Automotive equipment / device which
r.1.20,	3 Automotive equipment / device which
r.1.20,	na Automotive equipment / device which
r.1.20,	sing Automotive equipment / device which
r.1.20,	using Automotive equipment / device which
r.1.20,	<ul><li>using Automotive equipment / device which</li></ul>
r.1.20,	or using Automotive equipment / device which
r.1.20,	for using Automotive equipment / device which
r.1.20,	n for using Automotive equipment / device which
r.1.20,	on for using Automotive equipment / device which
r.1.20,	tion for using Automotive equipment / device which
r.1.20,	ation for using Automotive equipment / device which
r.1.20,	ration for using Automotive equipment / device which
r.1.20,	deration for using Automotive equipment / device which
r.1.20,	ideration for using Automotive equipment / device which
r.1.20,	sideration for using Automotive equipment / device which
r.1.20,	onsideration for using Automotive equipment / device which
r.1.20,	consideration for using Automotive equipment / device which
r.1.20,	f consideration for using Automotive equipment / device which
r.1.20,	of consideration for using Automotive equipment / device which
r.1.20,	of consideration for using Automotive equipment / device which
r.1.20,	se of consideration for using Automotive equipment / device which
r.1.20,	ase of consideration for using Automotive equipment / device which
r.1.20,	case of consideration for using Automotive equipment / device which
r.1.20,	case of consideration for using Automotive equipment / device which

Rev.	Count	Descript	ion of rev.	BY	CHKD	Date	Rev.	Count	Description of rev.	BY	CHKD	Date	
Ann	licable et	andard	Universal Se	erial Bus	Type-C	Cable an	d Conne	ctor Spec	cification Release 2.1				
App	licable st	.ariuaru	Universal Se	erial Bus	Type-C	Connecto	ors and (	Cable Ass	emblies Compliance Docum	ent Revi	sion 2.1b		
	Vol		48V AC/DC	48V AC/DC									
Da	ting		1.5A max.	nax. for each power pin (i.e., A1, A4, A9, A12, B1, B4, B9, B12)									
Ka	ting	Current	nt 1.25A max. for Vcon pin (i.e., B5)				5A max. for Vcon pin (i.e., B5)						
			0.25A max. for the others.										
Operating condition -40℃~+105℃(Including temp. rise), 95% RH max.(Non-condensing)													
Storage condition -10℃~+60℃(Wit					h packir	ng), 15º	%~ <del>7</del> 0%	RH					

	SPECIFICATIONS									
No	TEST ITEM	TEST METHOD	TEST REQUIREMENT	QT	AT					
CONS	STRUCTION		,							
1	General Examination	EIA 364-18 Visual inspection	No physical damage	0	0					
ELEC	TRICAL CHARACTERIS	TICS								
2 Low level contact at 100mA max. (DC or 1000Hz) 4-wire measurement is required and the resistance of PCB termination shall be deducted from the reading.			Initial : $40m\Omega$ max After test : $50m\Omega$ max	0	-					
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.	0	ı					
4	Insulation resistance	EIA 364-21 500V DC with unmated and mated con	dition. $100$ M $Ω$ min.	0	-					
MECH	IANICAL CHARACTERI	STICS								
5	5 Insertion force EIA 364-13 Measure at 12.5mm/minute min.		Initial: 5N ~ 20N After test: 5N ~ 20N (with virgin plug)	0	1					
6	Extraction force	EIA 364-13 Measure at 12.5mm/minute min.	Initial: 8N ~ 20N After test: 6N ~ 20N (with virgin plug)	0	-					
7	Durability	EIA 364-09 Mated 10,000 times Mechanically operated : 500cycles/hr Mating stroke : 2.75mm Insertion, extraction force shall be mea at a maximum speed of 12.5mm/min	No physical damage. Isured	0	-					
8	Random Vibration	EIA 364-28	No physical damage.	0	-					

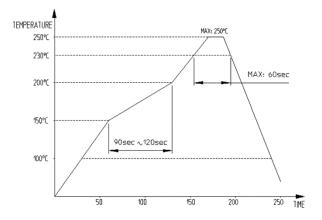
Remarks		Diawii	Designed	Checked	Approved	Release
		Y.J.KIM	Y.J.KIM	H.J.LEE	H.J.LEE	DEPT 22.06.28
		22.06.28	22.06.28	22.06.28	22.06.28	ENG
[Note] QT : Qualification test, AT : Ass	surance test, O : Applicabl	e, - : Not appl	icable			
Drawing No.	CL No. Part No.					
ELC4-632813	29-8		CX70M	11-24P		

**HIS** HIROSE KOERA.CO.,LTD

PRODUCT SPECIFICATION

		Test Condition VII, Test Letter D	No discontinuity of 1µs of		
		Mated specimens to 3.10 G's RMS	longer duration when mated		
		between 20 to 500Hz	connector during test.		
		15 minutes in each of 3 mutually			
		perpendicular planes.			
ENVI	RONMENTAL CHARACT	FERISTICS			
		EIA-364-70, method B:			
		A current of 6.0 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	Temperature rise shall not	_	
9	Temperature Rise	connector) with the return path through the	exceed 30℃	0	-
		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.			
		EIA 364-17, Method A			
10	Temperature Life	105℃ without applied voltage	No physical damage.	0	-
		for 120 hours.			
	Carlie Terror contains	EIA 364-31			
11	Cyclic Temperature and Humidity	25°C~65°C, 80~100% RH, 24hours a cycle, repeat	No physical damage.	Ο	-
		10 cycles			
12	The armount Character	EIA 364-32, Test Condition I	No aborial damas	0	
12	Thermal Shock	10 cycles -55°C and +105°C	No physical damage.	U	-
		EIA 364-52	Solder coverage shall be 95%		
13	Solderability	Dwell in 245±5℃ of the solder bath	min. of the immersed	0	-
		for 5 sec.	surfaces.		
14	Salt Spray	EIA 364-26	No corrosions that affect	0	
14	Sait Spray	5% of NaCl in 35℃ for 48 hours.	to the connector operation.		_
			Co-planarity		
		Reflow profile [Fig.1]	Before&after Reflow 0.10max		
15	Reflow test	Peak 250°C max for 10 sec 2 times.	No deformation of mold	0	-
		TEGR 250 CHIGA IOI TO SEC 2 UITIES.	No shape of blister and		
			popcorn		

## **REMARKS**



[Fig.1] REFLOW TEMPERATURE

[Note] QT : Qualification test, AT : Assurance test, O : Applicable, - : Not applicable								
Drawing No.	CL No.		Part No.					
ELC4-632813	CL 624	0-0029-8	CX70M1-24P					
<b>KS</b> HIROSE KOERA.C	O.,LTD	PRODUC <sup>-</sup>	T SPECIFICATION	2/5				

Apr. 1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved. In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

		Test	Sequ	ence	Table						
No Test item Test Group											
NO	rest item	A	В	С	D	E	F	G	н	I	J
1	Examination of product	1, 5	1, 13	1, 5	1, 5	1, 5	1, 3	1, 5	1, 3	1, 3	1, 5
2	Low Level Contact Resistance	2, 4	2, 12	2, 4	2, 4	2, 4		2, 4			2, 4
3	Dielectric 3 Withstanding Voltage		3, 11								
4	Insulation Resistance		4, 10								
5	Insertion force		5, 9								
6	Extraction force		6, 8								
7	Durability		7								
8	Random Vibration	3									3
9	Temperature Rise									2	
10	Temperature Life			3							
11	Cyclic Temperature and Humidity				3						
12	Thermal Shock					3					
13	Solderability						2				
14	Salt Spray							3			
15	Reflow Test								2		
REMA	REMARKS										

## 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.					
ELC4-632813	CL 624	10-0029-8	CX70M1-24P					
HIROSE KOERA.C	O.,LTD	PRODUC <sup>-</sup>	Γ SPECIFICATION	3 5				