AL E LICHE	BLE STAN	DARD	USB3.0 SPECIFICAT			USB C	ABLE AND CO	NNECTORS SPECI	FICATION	٧.
	OPERATING TEMPERATURE RANGE		-20°C TO +95°C STORA		GE RATURE RANGE		-30°C TO +60°C			
	IEMPERATURE RANGE						SIGNAL ONLY			
RATING								1 8 A/nin (PIN No	1.No.5)	
	VOLTA	AGE	30V AC	Cl	JRRENT		POWER APPL	0.5 A/pin (PIN No		
			0050	\	A TION			[(()		
			SPEC		ATION	NS				
ITE			TEST METHOD				REQUI	REMENTS	QT	АТ
CONSTRI	UCTION									
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.				ACCORDING TO DRAWING.				Х
MARKING		CONFIRMED VISUALLY.							X	X
ELECTRIC	C CHARA	CTERIS	STICS							
		100 mA (DC OR 1000 Hz).				30 mΩ MAX.			X	Х
INSULATION RESISTANCE		500 V DC.				1000 MΩ MIN.			X	Х
VOLTAGE PR		100 V AC FOR 1 min.					ASHOVER OR B	REAKDOWN.	X	Х
CAPACITANCE		MEASURE ADJACENT TWO CONTACTS AT				2 pF M	AX.		X	-
MECHANI	CAL CHAI		0 Hz AC VOLTAGE.							
					<u> </u>	INSER	TION FORCE	35 N MAX.		
INSERTION AND WITHDRAWAL FORCES		A MAXIMUM RATE OF 12.5 mm/min MEASURED BY APPLICABLE CONNECTOR						10 N MIN.(INITIAL)	X	
MECHANICAL	. OPERATION	10000 TIM	IES INSERTIONS AND EXTR	RACTIONS.		1) CON	NTACT RESISTA	NCE:		
		MATING S		VOL =5 ::				ORE THAN 10 m Ω	Х	_
		- MECHAI	NICALLY OPERATED : 500 C	YCLES / h		FROM INITIAL VALUE. 2) INSERTION FORCE 35 N MAX.				
		_	LY OPERATED : 200 C	YCLES / h		,	HDRAWAL FOR			
						3) NO DAMAGE, CRACK AND LOOSENESS				
VIBRATION RANDOM VIBRATION SHOCK		FREQUENCY 10 TO 55 Hz				OF PARTS. 1) NO ELECTRICAL DISCONTINUITY OF				
		SINGLE AMPLITUDE 0.75 mm, AT 2h				1μs.			X	-
		(6 HOURS IN TOTAL) FOR 3 AXIAL DIRECTIONS.			5.	-	DAMAGE, CRAC PARTS.	K AND LOOSENESS		
		FREQUENCY 50 TO 2000 Hz AT 15 min (45 MINUTES IN TOTAL) FOR 3 AXIAL DIRECTIONS.				OF F	AKIS.		X	_
		490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR						X		
			ONS. (18 TIMES.)							_
			CTERISTICS							
THERMAL SH	IOCK	TEMP $-55 \rightarrow +15 \text{ TO} +35 \rightarrow +85 \rightarrow +15 \text{ TO} +35 ^{\circ}\text{C}$ TIME $30 \rightarrow 2 \text{ TO} 3 \rightarrow 30 \rightarrow 2 \text{ TO} 3 \text{ min.}$ UNDER 10 CYCLES.				 CONTACT RESISTANCE: 70 mΩ MAX. INSULATION RESISTANCE: 100 MΩ MIN. NO DAMAGE, CRACK AND LOOSENESS OF PARTS. 			Х	l _
		(MATING APPLICABLE CONNECTOR)								
HUMIDITY LIFE		TEMPERATURE -10~65 °C, HUMIDITY 90 TO 98 %, UNDER 7 CYCLES (168 h)				NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			X	_
			APPLICABLE CONNECTOR))		. ,	·			
DRY HEAT		EXPOSED AT 85 ± 2 +25 °C, 96 h.				NO DAMAGE, CRACK AND LOOSENESS OF				
								AND LOOSENESS OF		
2010		(MATING	APPLICABLE CONNECTOR)			PARTS	S.		Х	_
COLD		(MATING EXPOSEI	APPLICABLE CONNECTOR) O AT -40 ± 2 +25 °C, 96 h			PARTS	MAGE, CRACK	AND LOOSENESS OF	X	 - -
COLD	SALT MIST	(MATING EXPOSED (MATING	APPLICABLE CONNECTOR)			PARTS NO DA PARTS	MAGE, CRACK	AND LOOSENESS OF	X	_
CORROSION		(MATING EXPOSED (MATING EXPOSED	APPLICABLE CONNECTOR) O AT -40 ± 2 +25 °C, 96 h APPLICABLE CONNECTOR)) C, FOR 48I		NO DA PARTS NO HE	S. MAGE, CRACK / S. SAVY CORROSIC	AND LOOSENESS OF		_ _ _
CORROSION	ТО	(MATING EXPOSED (MATING EXPOSED (LEFT UN	APPLICABLE CONNECTOR) O AT -40 ± 2 +25 °C, 96 h APPLICABLE CONNECTOR) O AT 5 % SALT WATER, 35 °C	 C, FOR 48 .)	٦.	NO DA PARTS NO HE	S. MAGE, CRACK / S. AVY CORROSIC	AND LOOSENESS OF DN.	X	_ _ _
CORROSION RESISTANCE SOLDERING F	TO HEAT	(MATING EXPOSED (MATING EXPOSED (LEFT UN A PROFIL	APPLICABLE CONNECTOR) OAT $-40 \pm 2 +25 ^{\circ}\text{C}$, 96 h APPLICABLE CONNECTOR) OAT 5 % SALT WATER, 35 ° DER UNMATED CONDITION E IS SHOWN IN FIG-1, UNDI	 C, FOR 48 .)	n. ES.	NO DA PARTS NO HE NO DE LOOS	S. MAGE, CRACK / S. SAVY CORROSIC	AND LOOSENESS OF DN. R SIGNIFICANT TACTS.	X X X	_ _ _ _
CORROSION RESISTANCE SOLDERING H COUNT	TO HEAT	(MATING EXPOSED (MATING EXPOSED (LEFT UN A PROFIL	APPLICABLE CONNECTOR) DAT -40 ± 2 +25 °C, 96 h APPLICABLE CONNECTOR) DAT 5 % SALT WATER, 35 °C DER UNMATED CONDITION	 C, FOR 48 .)	٦.	NO DA PARTS NO HE NO DE LOOS	S. MAGE, CRACK / S. AVY CORROSIC	AND LOOSENESS OF DN.	X X X	_ _ _ _ ATE
RESISTANCE SOLDERING H	TO HEAT	(MATING EXPOSED (MATING EXPOSED (LEFT UN A PROFIL	APPLICABLE CONNECTOR) OAT $-40 \pm 2 +25 ^{\circ}\text{C}$, 96 h APPLICABLE CONNECTOR) OAT 5 % SALT WATER, 35 ° DER UNMATED CONDITION E IS SHOWN IN FIG-1, UNDI	 C, FOR 48 .)	n. ES.	NO DA PARTS NO HE NO DE LOOS	S. MAGE, CRACK / S. EAVY CORROSIC FORMATION OF ENESS OF CON	AND LOOSENESS OF DN. R SIGNIFICANT TACTS. CHECKED	X X X DA	
RESISTANCE SOLDERING H COUNT	TO HEAT DE	(MATING EXPOSEI (MATING EXPOSEI (LEFT UN A PROFIL	APPLICABLE CONNECTOR) D AT -40 ± 2 +25 °C, 96 h APPLICABLE CONNECTOR) D AT 5 % SALT WATER, 35 ° DER UNMATED CONDITION E IS SHOWN IN FIG-1, UNDI	C, FOR 48I I.) RE 2 CYCL	n. ES. DESIGN	NO DA PARTS NO HE NO DE LOOS	APPROVED	AND LOOSENESS OF ON. R SIGNIFICANT TACTS. CHECKED NM. NISHIMATSU	X X X DA 15. 1	10. 27
CORROSION RESISTANCE SOLDERING F COUNT COUNT REMARK HIROSE W	TO HEAT DE	(MATING EXPOSEI (MATING EXPOSEI (LEFT UN A PROFIL	APPLICABLE CONNECTOR) DAT -40 ± 2 +25 °C, 96 h APPLICABLE CONNECTOR) DAT 5 % SALT WATER, 35 ° DER UNMATED CONDITION E IS SHOWN IN FIG-1, UNDI ON OF REVISIONS e performance on th	C, FOR 48I I.) RE 2 CYCL	DESIGN	NO DA PARTS NO HE NO DE LOOS NED	APPROVED CHECKED	AND LOOSENESS OF ON. R SIGNIFICANT TACTS. CHECKED NM. NISHIMATSU KN. ICHIKAWA	X X X DA	10. 27 10. 27
RESISTANCE SOLDERING F COUNT COUNT REMARK HIROSE we case this	TO HEAT DE	(MATING EXPOSED (MATING EXPOSED (LEFT UN A PROFIL EXCRIPTION A PROFIL EXCRIPTION EXCRIPT	APPLICABLE CONNECTOR) DAT -40 ± 2 +25 °C, 96 h APPLICABLE CONNECTOR) DAT 5 % SALT WATER, 35 ° DER UNMATED CONDITION E IS SHOWN IN FIG-1, UNDI ON OF REVISIONS e performance on th	C, FOR 48I I.) RE 2 CYCL	n. ES. DESIGN	NO DA PARTS NO HE NO DE LOOS NED	APPROVED	AND LOOSENESS OF ON. R SIGNIFICANT TACTS. CHECKED NM. NISHIMATSU	X X X DA	- - - ATE 10. 27 10. 27
RESISTANCE SOLDERING FOUNT COUNT REMARK HIROSE we case this HIROSE's.	TO HEAT DE	(MATING EXPOSEI (MATING EXPOSEI (LEFT UN A PROFIL CAPTURE EXCRIPTION A PROFIL CAPTURE	APPLICABLE CONNECTOR) DAT -40 ± 2 +25 °C, 96 h APPLICABLE CONNECTOR) DAT 5 % SALT WATER, 35 ° DER UNMATED CONDITION E IS SHOWN IN FIG-1, UNDI ON OF REVISIONS e performance on the mated with the o	c, FOR 48I I.) RE 2 CYCL ese spe thers v	DESIGN	NO DE LOOS NED	APPROVED CHECKED	AND LOOSENESS OF ON. R SIGNIFICANT TACTS. CHECKED NM. NISHIMATSU KN. ICHIKAWA	X X X DA 15. 1 15. 1	10. 27 10. 27 10. 27
RESISTANCE SOLDERING HOUNT COUNT COUNT REMARK HIROSE was this HIROSE's.	TO HEAT DE Till not guar product w erwise spec	(MATING EXPOSED (MATING EXPOSED (LEFT UN A PROFILE ESCRIPTIO	APPLICABLE CONNECTOR) O AT -40 ± 2 +25 °C, 96 h APPLICABLE CONNECTOR) O AT 5 % SALT WATER, 35 ° DER UNMATED CONDITION E IS SHOWN IN FIG-1, UNDI ON OF REVISIONS e performance on th mated with the o fer to USB3.0, EIA36	ese spethers v	DESIGN	NO DE LOOS NED	APPROVED CHECKED DESIGNED	AND LOOSENESS OF ON. R SIGNIFICANT TACTS. CHECKED NM. NISHIMATSU KN. ICHIKAWA TS. ITO AK. AKIYAMA	X X X DA 15. 1 15. 1 15. 1	10. 27 10. 27 10. 27 10. 27
RESISTANCE SOLDERING HE COUNT	TO HEAT DE Till not guar product w erwise spec	(MATING EXPOSED (MATING EXPOSED (LEFT UN A PROFILE ESCRIPTIO	APPLICABLE CONNECTOR) DAT -40 ± 2 +25 °C, 96 h APPLICABLE CONNECTOR) DAT 5 % SALT WATER, 35 ° DER UNMATED CONDITION E IS SHOWN IN FIG-1, UNDI ON OF REVISIONS e performance on the mated with the o	ese spethers v	DESIGN DE	NO DA PARTS NO HE NO DE LOOS NED	APPROVED CHECKED DESIGNED DRAWN IG NO.	AND LOOSENESS OF ON. R SIGNIFICANT TACTS. CHECKED NM. NISHIMATSU KN. ICHIKAWA TS. ITO AK. AKIYAMA ELC—127028	X X X DA 15. 1 15. 1 15. 1 15. 1 15. 1	10. 27 10. 27 10. 27 10. 27
RESISTANCE SOLDERING HOUNT COUNT COUNT REMARK HIROSE was this HIROSE's.	TO HEAT TO DE TILL NOT GUAR PRODUCT W TO DE TILL NOT GUAR PRO	(MATING EXPOSED (MATING EXPOSED (LEFT UN A PROFILE ESCRIPTION A PROFILE	APPLICABLE CONNECTOR) O AT -40 ± 2 +25 °C, 96 h APPLICABLE CONNECTOR) O AT 5 % SALT WATER, 35 ° DER UNMATED CONDITION E IS SHOWN IN FIG-1, UNDI ON OF REVISIONS e performance on th mated with the o fer to USB3.0, EIA36	ese spethers v	DESIGN DE	NO DA PARTS NO HE NO DE LOOS NED	APPROVED CHECKED DESIGNED DRAWN IG NO.	AND LOOSENESS OF ON. R SIGNIFICANT TACTS. CHECKED NM. NISHIMATSU KN. ICHIKAWA TS. ITO AK. AKIYAMA	X X X DA 15. 1 15. 1 15. 1 15. 1 15. 1	10. 27 10. 27 10. 27 10. 27



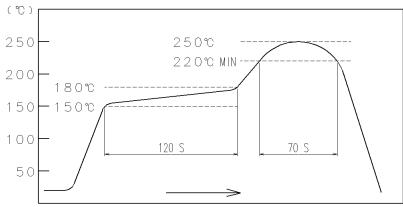


FIG – 1 <u>RESISTANCE TO SOLDERING HEAT</u> (TEMPERATURE AT TOP SURFACE OF CONNECTOR)

RECOMMENDED PROFILE REFERS TO FIG – 2. (TEMPERATURE AT SMT LEADS)

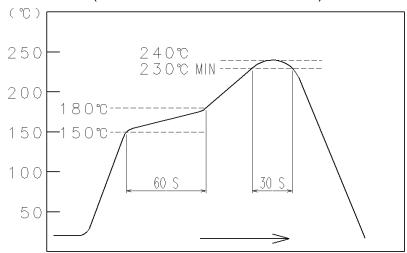


FIG – 2 RECOMMENDED REFLOW PROFILE TEMPERATURE

Note QT:0	Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.		ELC-127028-30-00		
HS.	SPECIFICATION SHEET	PART NO.	ZX360D-B-10P (30)))	
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL242	2-0500-1-30	A	2/2