

APPLICABLE STANDARD		USB2.0 SPECIFICATION AND MICRO-USB CABLES AND CONNECTORS SPECIFICATION			
RATING	OPERATING TEMPERATURE RANGE	-30 °C TO +85 °C	STORAGE TEMPERATURE RANGE	-30 °C TO +85 °C	
	VOLTAGE	30 V AC	OPERATING HUMIDITY RANGE	- % TO - %	
	CURRENT	1) 1 A / pin	APPLICABLE CABLE	USB CABLE	
	1) SIGNAL ONLY 2) POWER APPLY	2) 1.8 A / pin (PIN No.1,5) 0.5 A / pin (PIN No.2-4)		1) SIGNAL : AWG 28 MAX 2) POWER : AWG 26 MAX	
SPECIFICATIONS					
ITEM		TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION					
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING		CONFIRMED VISUALLY.		X	X
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz).	30 mΩ MAX.	X	X
INSULATION RESISTANCE		500 V DC.	100 MΩ MIN.	X	X
VOLTAGE PROOF		100 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	X
CAPACITANCE		MEASURE ADJACENT TWO CONTACTS AT 1000±10 Hz AC VOLTAGE.	2 pF MAX.	X	—
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCES		A MAXIMUM RATE OF 12.5 mm/min. MEASURED BY APPLICABLE CONNECTOR.	35 N MAX.	X	—
MECHANICAL OPERATION		10000 TIMES INSERTIONS AND EXTRACTIONS. MATING SPEED - MECHANICALLY OPERATED : 500 CYCLES / h. - MANUALLY OPERATED : 200 CYCLES / h	1) CONTACT RESISTANCE: NO INCREASE OF MORE THAN 10 mΩ FROM INITIAL VALUE. 2) INSERTION AND WITHDRAWAL FORCE: 35 N MAX. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
ENVIRONMENTAL CHARACTERISTICS					
THERMAL SHOCK		TEMP -55 → 15 TO 35 → 85 → 15 TO 35 °C TIME 30 → 2 TO 3 → 30 → 2 TO 3 min. UNDER 10 CYCLES. (MATING APPLICABLE CONNECTOR)	1) CONTACT RESISTANCE: 70 mΩ MAX. 2) INSULATION RESISTANCE: 100 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
HUMIDITY LIFE		TEMPERATURE -10 TO 65 °C,HUMIDITY 90 TO 98 % UNDER 7 CYCLES. (168 h) (MATING APPLICABLE CONNECTOR)	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
DRY HEAT		EXPOSED AT 85±2°C, 96 h. (MATING APPLICABLE CONNECTOR)		X	—
COLD		EXPOSED AT -40±2°C, 96 h. (MATING APPLICABLE CONNECTOR)		X	—
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER, 35 °C, FOR 48±4 h.	NO HEAVY CORROSION.	X	—
RESISTANCE TO SOLDERING HEAT		TEMPERATURE : 350±10°C TIME : 5±1 s AT SOLDERING PARTS	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△	1	DIS-E-00000492	TS. ITO	NM. NISHIMATSU	16. 03. 03
REMARKS HIROSE will not guarantee the performance on these specifications in case this product will be mated with the others which is not HIROSE's. Unless otherwise specified, refer to USB2.0, EIA364 or IEC 60512.			APPROVED	NM. NISHIMATSU	15. 10. 27
			CHECKED	KN. ICHIKAWA	15. 10. 27
			DESIGNED	TS. ITO	15. 10. 27
			DRAWN	AK. AKIYAMA	15. 10. 27
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-126085-32-00
HRS	SPECIFICATION SHEET		PART NO.	ZX20-B-5S-UNIT (32)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL242-0012-8-32	△ 1/1