

APPLICABLE STANDARD		SPECIFICATIONS			
Rating	Operating Temperature Range	-55 °C to 85 °C <sup>(1)</sup>	Storage Temperature Range	-10 °C to 60 °C <sup>(2)</sup>	
	Voltage	50 V AC	Storage Humidity Range	Relative humidity 85% max (Not dewed)	
	Current	0.7 A	Operating Humidity Range		
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 1000Hz)	70mΩ MAX.		x	—
Insulation Resistance	100 V DC.	100 MΩ MIN.		x	—
Voltage Proof	150 V AC for 1 min.	No flashover or breakdown.		x	x
MECHANICAL CHARACTERISTICS					
Insertion and Withdrawal Forces	Measured by applicable connector.	Insertion Force: 36 N MAX. Withdrawal Force: 3.6 N MIN.		x	—
Mechanical Operation	50 times insertions and extractions.	① Contact Resistance : 80mΩ MAX. ② No damage, crack and looseness of parts.		x	—
Vibration	Frequency 10 to 55 to 10Hz, approx 5min Single amplitude : 0.75 mm, 10 cycles for 3 axial directions.	① No electrical discontinuity of 1 μs. ② No damage, crack and looseness of parts.		x	—
Shock	490 m/s <sup>2</sup> , duration of pulse 11 ms at 3 times for 3 both axial directions.			x	—
ENVIRONMENTAL CHARACTERISTICS					
Damp Heat (Steady state)	Exposed at 40±2 °C, 90 ~ 95 %, 96 h.	① Contact Resistance : 80mΩ MAX. ② Insulation Resistance:100 MΩ MIN.		x	—
Rapid Change of Temperature	Temperature -55 → +85 °C Time 30 → 30 min. under 5 cycles. (Relocation time to chamber : within 2~3 MIN)	③ No damage, crack and looseness of parts.		x	—
Cold	Exposed at -55°C, 96 h	① Contact Resistance : 80mΩ ② No damage, crack and looseness of parts.		x	—
Dry Heat	Exposed at 85°C, 96 h			x	—
Sulfur Dioxide	Exposed at 25±2°C, 75±5%RH, 25 PPM for 96 h. (Test standard: JIS C 60068)	① No defect such as corrosion which impairs the function of connector. ② Contact Resistance : 80mΩ		x	—
Resistance to Soldering Heat	1)Reflow soldering : Peak TMP : 260°C MAX Reflow TMP: 220°C MIN for 60sec 2) Soldering irons : 360°C MAX. for 5 sec.	No deformation of case of excessive looseness of the terminal.		x	—
Solderability	Soldered at solder temperature 245±3°C for immersion duration, 3 sec.	A new uniform coating of solder shall cover a minimum of 95 % of the surface being immersed.		x	—
REMARKS					
<small>(1) Include temperature rise caused by current-carrying. (2) "STORAGE" means a long-term storage state for the unused product before assembly to PCB.</small>		APPROVED	HS. OKAWA	14. 09. 30	
		CHECKED	KN. SHIBUYA	14. 09. 30	
		DESIGNED	AH. EDASHIGE	14. 09. 30	
		DRAWN	AH. EDASHIGE	14. 09. 30	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-352600-00	
	SPECIFICATION SHEET		PART NO.	FX22-40S-0.5SH	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL572-3100-6-00	 1/1

