

APPLICABLE STANDARD					
Rating	Operating Temperature Range	-40°C to +105 °C (Note 1)	Storage Temperature Range	-10 °C to +60 °C (Note 2)	
	Voltage	100 V AC	Operating Humidity Range	- % to - %	
	Current	1 A / PIN	Applicable Cable	AWG#22 to AWG#26	
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	
ELECTRICAL CHARACTERISTICS					
Contact Resistance	100 mA (DC or 1000 Hz) max.	10 mΩ max. (Note 3)		X -	
MECHANICAL CHARACTERISTICS					
Contact insertion and Extraction Forces	Measured by applicable contact.	Insertion force : 4.4 N MAX. Extraction force : 0.3 N MIN.		X -	
Mechanical Operation	100 times insertions and extractions.	1) Contact resistance change : 20 mΩ MAX. (Note 3) 2) No damage, crack and looseness of parts.		X -	
Vibration	Frequency 10 to 55 Hz, single amplitude 0.75 mm, 3 axial directions, 10 cycles each.	1) No electrical discontinuity of 1 μs.		X -	
Shock	Acceleration 490 m/s ² , duration of pulse 11 ms, for 3 times in 3 both axial directions.(half-sine wave)	2) No damage, crack and looseness of parts.			
ENVIRONMENTAL CHARACTERISTICS					
Rapid Change of Temperature	Temperature : -40 → 15 to 35 → 85 → 15 to 35 °C Time : 30 → 2 to 3 → 30 → 2 to 3 min. under 5 cycles.	1) Contact resistance change : 20 mΩ max. (Note 3) 2) Insulation resistance : 1000 MΩ MIN. 3) No damage, crack and looseness of parts.		X -	
Dry Heat	Exposed at 105 ± 2°C for 96 h. In mated state with applicable connector.			X -	
Cold	Exposed at -40 ± 3°C for 96 h. In mated state with applicable connector.			X -	
Damp Heat, Steady State	Exposed at 40 ± 2°C, 90 to 95%RH for 96 h. In mated state with applicable connector.			X -	
Corrosion Salt Mist	Exposed in 5 % salt water spray for 48 h. In mated state with applicable connector			No loss of function which could be caused by severe corrosion.	
Notes 1. The operation temperature includes the temperature rise by current carrying. 2. Storage temperature range shows storage condition for unused products including packing materials. Follow the operating temperature range for storage condition after mounting. 3. The cable conductor resistance is not considered.					
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
REMARK This specification sheet shows the performance with incorporated applicable crimp contacts and compatible connector. Unless otherwise specified, refer to IEC 60512.			APPROVED	RI. TAKAYASU	17. 03. 24
			CHECKED	AH. KODAMA	17. 03. 23
			DESIGNED	SG. CHAMURA	17. 03. 23
			DRAWN	SG. CHAMURA	17. 03. 23
Note QT: Qualification Test AT: Assurance Test X: Applicable Test			DRAWING NO.		ELC-128865-00-00
	SPECIFICATION SHEET		PART NO.	MT50C-2226SCFA	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL248-0014-0-00	

