







Applicable standard					
Rating	Operating temperature range	-55 °c to +105°c (Note1)	Storage temperature range	-10 °c to +60°c (Note3)	
	Operating Humidity range	20% to 80% (Note2)	Storage Humidity range	40% to 70% (Note3)	
	Applicable connector	DF63-*S-3. 96C	Voltage	AC/DC 630V	
	Applicable cable	AWG#20 to 22	Current	AWG#20 : 11 A/pin AWG#22 : 9 A/pin	
	Insulation Diameter 	Φ 1.5 to 1.9 mm			
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		20mV MAX, 1ma (DC or 1000Hz).	10 mΩ MAX.	X	—
Mechanical characteristics					
Contact insertion And extraction Forces		□1.14±0.002 mm by steel gauge.	Insertion force 10 N MAX. Extraction force 0.3 N MIN.	X	—
Mechanical operation		50 times insertion and extraction.	1) Contact resistance: 20 mΩ MAX. 2) No damage, crack or looseness of parts.	X	—
Vibration		Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 direction.	1) No electrical discontinuity of 1 μ s. 2) No damage, crack or looseness of parts.	X	—
Shock		490 m/s ² duration of pulse 11 ms at 3 times each for 3 both axial directions.		X	—
Environmental characteristics					
Damp heat (steady state)		Exposed at 40 ± 2°C , 90 to 95 %, 96 h. (After leaving the room temperature for 1 to 2h.)	1) Contact resistance: 20 mΩ MAX. 2) No damage, crack or looseness of parts.	X	—
Rapid change of temperature		Temperature -55°C→ +85°C Time 30min→ 30min Under 5 cycles. (the transferring time of the tank is 2 to 3 min) (after leaving the room temperature for 1 to 2h.)		X	—
Remarks					
Note1: Include the temperature rising by current. Note2: No condensing. Note3: Apply to the packaged and unused product. 					
	Count	Description of revisions	Designed	Checked	Date
	2	DIS-H-00017054	TS. KUMAZAWA	SZ. ONO	20230203
Unless otherwise specified, refer to IEC 60512.			Approved	SJ. OKAMURA	20210513
			Checked	SZ. ONO	20210513
			Designed	TS. KUMAZAWA	20210513
			Drawn	TS. KUMAZAWA	20210513
Note QT:Qualification test AT:Assurance test X:applicable test			Drawing No.		ELC-393064-00-00
	Specification sheet		Part No.	DF63A-2022SCFA	
	Hirose electric co., Ltd.		Code No.	CL0680-0647-0-00	 1/1