

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	UL1007 AWG #20 to 22	Current	AWG#20 : 11 A/pin AWG#22 : 9 A/pin	
<b>Specifications</b>					
Item		Test method	Requirements	QT	AT
<b>Construction</b>					
General examination		Visually and by measuring instrument.	According to drawing.	X	X
Marking		Confirmed visually.		X	X
<b>Electric characteristics</b>					
Contact resistance		20mV MAX, 1ma (DC or 1000Hz).	10 mΩ MAX.	X	—
<b>Mechanical characteristics</b>					
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.	①Contact resistance: 20 mΩ MAX. ②No damage, crack or looseness of parts.	X	—
Vibration		Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 direction.	①No electrical discontinuity of 1 μ s. ②No damage, crack or looseness of parts.	X	—
Shock		490 m/s <sup>2</sup> duration of pulse 11 ms at 3 times each for 3 both axial directions.		X	—
<b>Environmental characteristics</b>					
Damp heat (steady state)		Exposed at 40 ± 2°C , 90 to 95 %, 96 h. (After leaving the room temperature for 1 to 2h.)	①Contact resistance: 20 mΩ MAX. ②No 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 Note 1:Including the temperature rising by current. Note 2:No condensing Note 3:Apply to unused product on packaged condition.					
	Count	Description of revisions	Designed	Checked	Date
△0					
Unless otherwise specified, refer to IEC 60512.			Approved	S.J. 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-393068-00-00
<b>HRS</b>	Specification sheet		Part No.	DF63A-2022SCA	
	Hirose electric co., Ltd.		Code No.	CL0680-0651-0-00	△ 1/1