






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 #16 to 18	Current	AWG #16 : 15A	
	Insulation diameter	φ 2.1 to φ 3.2 mm		AWG #18 : 13A	
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		<input type="checkbox"/> 1.14±0.002 mm by steel gauge.	Insertion force 10 N MAX. Extraction force 0.3 N MIN.	X	—
Mechanical operation		30 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 ² duration of pulse 11 ms at 3 times each for 3 both axial directions.	①No electrical discontinuity of 1 μ s. ②No damage, crack or looseness of parts.	X	—
Environmental characteristics					
Damp heat (Steady state)		Exposed at 40 ± 2°C , 90 to 95 %, 96 h. (After leaving the room temperature for 1-2h.)	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 2-3 min) (After leaving the room temperature for 1-2h.)	①Contact resistance: 20 mΩ MAX. ②No damage, crack or looseness of parts.	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
	1	DIS-H-00009798	TS. KUMAZAWA	SZ. ONO	20210616
Unless otherwise specified, refer to IEC 60512.			Approved	HS. OKAWA	20170808
			Checked	TS. FUKUSHIMA	20170808
			Designed	HT. SATO	20170808
			Drawn	MI. SAKIMURA	20170808
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing no.	ELC-373588-00-00	
	Specification sheet		Part no.	DF63A-1618SCF	
	Hirose electric co., ltd.		Code no.	CL0680-0573-0-00	 1/1