

Applicable standard					
Rating	Operating temperature range	-40 °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	DF67-*S-3. 96C	Voltage	AC/DC 630V	
	Applicable cable	AWG#16 to 18	Current	AWG#16	12 A
	Insulation Diameter	Φ 2.1 to 3.2 mm		AWG#18	10 A
		Rated Voltage	Rated Current	Overvoltage Category	IP-Degree
UL,C-UL		600V AC/DC	See above	-	-
TÜV		300V AC/DC	See above	-	IP00
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	TBD		TBD		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.				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.)		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 -
Note1: Include the temperature rising by current. Note2:No condensing Note3:Apply to the condition of long term storage for unused products befor pcb on board, after pcb on board, operating temperature and humiditty range is applied for interim strage during transportation.					
Count	Description of revisions		Designed	Checked	Date
△0					
Remarks			Approved	YN. TAKASHITA	15. 11. 16
			Checked	YN. TAKASHITA	15. 11. 16
			Designed	ST. SATO	15. 11. 16
			Drawn	ST. SATO	15. 11. 16
Unless otherwise specified, refer to IEC 60512.					
Note QT:Qualification test AT:Assurance test X:applicable test			Drawing No.		ELC-367036-05-00
HRS	Specification sheet		Part No.	DF67-1618SCFA (05)	
	Hirose electric co., Ltd.		Code No.	CL680-0703-0-05	△ 1/1