

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	DF63SF-*\$-3. 96C	Voltage	AC/DC 630V		
	Applicable cable	UL1007 AWG#16 UL1007 AWG#18	Current	AWG#16	15A(2PIN,P=7.92mm) 12A(3PIN,P=3.96mm)	
				AWG#18	13A(2PIN,P=7.92mm) 10A(3PIN,P=3.96mm)	
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		□0.8±0.002 mm by steel gauge.		Insertion force 4.5 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.				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→ +105°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 before mounted on PCB. After mounted on PCB board , operating temperature and humidity range is applied for interim storage during transportation.						
	Count	Description of revisions	Designed		Checked	Date
Remarks Unless otherwise specified, refer to IEC 60512.				Approved	HS. OKAWA	18. 08. 23
				Checked	SZ. ONO	18. 08. 23
				Designed	TS. KUMAZAWA	18. 08. 23
				Drawn	TS. KUMAZAWA	18. 08. 23
Note QT:Qualification test AT:Assurance test X:applicable test			Drawing No.		ELC-375078-00-00	
	Specification sheet		Part No.		DF63SF-1618SCA	
	Hirose electric co., Ltd.		Code No.		CL680-0706-0-00	1/1