






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	15 A	
	Insulation Diameter	Φ 2.1 to 3.2 mm			AWG#18	13 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		□ 1.14±0.002 mm by steel gauge.		Insertion force 12.0 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→ +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	-
Note 1: Include the temperature rising by current. Note 2: No condensing Note 3: Apply to the condition of long term storage for unused products before PCB on board. After PCB on board, operating temperature and humidity range is applied for interim storage during transportation.							
	Count	Description of revisions	Designed	Checked	Date		
	1	DIS-H-00002332	MI. SAKIMURA	TS. FUKUSHIMA	16. 11. 29		
Remarks				Approved	HK. UMEHARA	15. 03. 27	
				Checked	HK. UMEHARA	15. 03. 27	
				Designed	YK. YAMAGUCHI	15. 03. 26	
				Drawn	YK. YAMAGUCHI	15. 03. 26	
Unless otherwise specified, refer to IEC 60512.							
Note QT:Qualification test AT:Assurance test X:applicable test			Drawing No.		ELC-362604-00-00		
	Specification sheet		Part No.	DF63-1618SCFA			
	Hirose electric co., Ltd.		Code No.	CL680-0540-0-00		1/1	