

Applicable standard		Specifications						
Rating	Operating temperature range	-35°C to + 85°C(Note 1)	Storage temperature range	-10°C to + 60°C(Note 3)				
	Operating humidity range	20% to + 80%(Note 2)	Storage humidity range	40% to + 70%(Note 3)				
	Voltage	100V AC/DC	Applicable socket	DF50#-*DS-1C(##)、DF50A-*S-1C(##)				
			Applicable connector	DF50-*DP-1V(##)、DF50-*DP-1H(##) DF50A-*P-1V(##)、DF50A-*P-1H(##)				
	Current	AWG#28 : 1.0A AWG#30 : 0.9A	Applicable cable	AWG#28-30				
			Insulation diameter	φ 0.8-0.9mm				
Construction								
General examination	Visually and by measuring instrument.		According to drawing.		X X			
Marking	Confirmed visually.				X X			
Electric characteristics								
Contact Resistance	AC 20 mV Max 1mA (DC or 1000 Hz).		30mΩ MAX.		X —			
Mechanical characteristics								
Contact insertion and extraction forces	T=0.15±0.002 mm by steel gauge.		Insertion force 1 N MAX. Extraction force 0.08 N MIN.	X —				
Mechanical Operation	30 times insertion and extraction.		① Contact resistance: 50 mΩ MAX. ② No damage, crack or looseness of parts.	X —				
Vibration	Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for each, for 3 directions.		① No electrical discontinuity of 1μs. ② No damage, crack or looseness of parts.	X —				
Shock	490 m/s ² duration of pulse 11 ms at 3 times for 3 directions.			X —				
Environmental characteristics								
Damp heat (Steady state)	Exposed at 40 ± 2 °c, 90 to 95 %, 96 h.		① Contact resistance: 50mΩ MAX. ② No 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	<p>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 mounted on PCB. After mounted on PCB, operation temperature and humidity range is applied for interim storage during transportation.</p>							
Count	Description of revisions		Designed	Checked	Date			
0								
Unless otherwise specified, refer to IEC 60512.				Approved	HS. OKAWA 18. 04. 19			
				Checked	TS. FUKUSHIMA 18. 04. 19			
				Designed	HT. SATO 18. 04. 19			
				Drawn	HT. SATO 18. 04. 19			
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing No.		ELC-320119-79-00			
	Specification sheet		Part no.	DF50-2830SCFA (79)				
	Hirose electric co., Ltd.		Code no.	CL665-0002-0-79	△ 1/1			

In cases where the application will demand a high level of reliability, such as automotive, please contact a company representative for further information.

