

Applicable standard					
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(##)	
	Current	AWG#28 : 2.0A \triangle AWG#30 : 0.9A	Applicable cable	AWG#28-30	
INSULATION DIAMETER			ϕ 0.8-0.9mm		
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	AC 20 mV MAX 1mA (DC or 1000 Hz).	30m Ω MAX.	X	—	
Mechanical characteristics					
Contact insertion and extraction forces	T=0.15 \pm 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 m Ω 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 1 μ s. 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 \pm 2 °c, 90 to 95 %, 96 h.	① Contact resistance: 50m Ω MAX. ② No damage, crack or looseness of parts.	X	—	
Rapid change of temperature	Temperature -55°C \rightarrow +85°C Time 30min \rightarrow 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					
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.					
\triangle	Count	Description of revisions	Designed	Checked	Date
	1	DIS-H-00004388	HT. SATO	SZ. ONO	20181108
Unless otherwise specifid , refer to IEC 60512.			Approved	TS. SAKATA	20090907
			Checked	MN. KENJO	20090907
			Designed	TT. OHSAKO	20090907
			Drawn	TT. OHSAKO	20090907
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing No.	ELC4-320119-00	
HRS	Specification sheet		Part no.	DF50-2830SCFA	
	Hirose electric co., ltd.		Code no.	CL665-0002-0-00	\triangle 1/1