






Applicable standard					
Rating	Operating temperature range	-35°C to + 85°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)	
	Voltage	100V AC/DC	Applicable socket	DF50A-*S-1C DF50(S)-*DS-1C	
	Current	AWG 26 : 2.0 A 	Applicable cable	AWG#26	
			Insulation diameter	φ 0.77-0.95mm	
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 chracteristics					
Contact resistance		AC 20mV 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 insertions and extractions.	① Contact resistance: 50mΩ 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 <sup>2</sup> 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 Insulation resistance: 50mΩ MAX. ② No damage, crack or looseness of parts.	X	—
Rapid change of temperature		Temperature -55→+85°C Time 30→ 30min. Under 5 cycles. (The transferring time of the tank is 2-3 min)		X	—
Remarks					
Note1:Including the temperature rise 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, operating temperature and humidity range is applied for interim storage during transportation.					
	Count	Description of revisions	Designed	Checked	Date
	1	DIS-H-00004388	HT. SATO	SZ. ONO	20181108
Unless otherwise specifid , refer to IEC 60512.			Approved	KI. AKIYAMA	20141010
			Checked	TS. FUKUSHIMA	20141010
			Designed	HT. SATO	20141010
			Drawn	HT. SATO	20141010
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing no.	ELC4-358437-01	
	Specification sheet		Part no.	DF50-26SCFA	
	Hirose electric co., ltd.		Code no.	CL665-0023-0-00	 1/1