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 ⚠1 AWG#30 : 0.9A	Applicable cable	AWG#28-30
			INSULATION DIAMETER	ϕ0.8-0.9mm

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).	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/s² 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
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.

	Count	Description of revisions	Designed	Checked	Date
⚠1	1	DIS-H-00004388	HT.SATO	SZ.ONO	20181108

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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	⚠1 1/1

FORM HD0011-2-1