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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

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#20 to 22	Current	AWG#20 : 11 A/pin
	Insulation Diameter △2	Φ1.5 to 1.9 mm		AWG#22 : 9 A/pin

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 10 N MAX. Extraction force 0.3 N MIN.	X	–
Mechanical operation	50 times insertion and extraction.	1) Contact resistance: 20 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 3 direction.	1) No electrical discontinuity of 1 μs. 2) No damage, crack or looseness of parts.	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℃ , 90 to 95 %, 96 h. (After leaving the room temperature for 1 to 2h.)	1) Contact resistance: 20 mΩ MAX. 2) No damage, crack or looseness of parts.	X	–
Rapid change of temperature	Temperature -55℃→ +85℃ 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
Note1: Include the temperature rising by current.
Note2: No condensing.
Note3: Apply to the packaged and unused product. △2

	Count	Description of revisions	Designed	Checked	Date
△2	2	DIS-H-00017054	TS. KUMAZAWA	SZ. ONO	20230203

Unless otherwise specified, refer to IEC 60512.

Approved	SJ. OKAMURA	20210513
Checked	SZ. ONO	20210513
Designed	TS. KUMAZAWA	20210513
Drawn	TS. KUMAZAWA	20210513

Note QT:Qualification test AT:Assurance test X:applicable test

		Drawing No.	ELC-393064-00-00	
HRS	Specification sheet	Part No.	DF63A-2022SCFA	
	Hirose electric co., Ltd.	Code No.	CL0680-0647-0-00 △2	1/1

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