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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 #16 to 18	Current	AWG #16 : 15A/pin		
	Insulation diameter	φ 2.1 to φ 3.2 mm		AWG #18 : 13A/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	<input type="checkbox"/> 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 1μs. 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°C , 90 to 95 %, 96 h. (After leaving the room temperature for 1-2h.)	1) Contact resistance: 20 mΩ 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 2-3 min) (After leaving the room temperature for 1-2h.)		X	-		
Remarks Note 1:Including the temperature rising by current. Note 2:No condensing Note 3: Apply to unused product on packaged condition.						
	Count	Description of revisions	Designed	Checked	Date	
	1	DIS-H-00009798	TS. KUMAZAWA	SZ. ONO	20210616	
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-393063-00-00	
	Specification sheet		Part no.	DF63A-1618SCFA		
	Hirose electric co., ltd.		Code no.	CL0680-0646-0-00	 1/1	