

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)	
	Voltage	AC/DC 630V	Applicable connector	DF63(W)-*EP-3.96C	
	Current	AWG 16 : 15A AWG 18 : 13A	Applicable cable	AWG 16~18	
			Insulation diameter	φ 2.1 to φ 3.2mm	
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					
Mechanical operation		30 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.	1) No electrical discontinuity of 1 μs. 2) No damage, crack or looseness of parts.	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.)	1) Contact resistance: 20 mΩ MAX. 2) No damage, crack or looseness of parts.	X	—
Note 1: Include the temperature rising by current. Note 2: No condensing Note 3: Apply to unused product on packaged condition.					
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	Count	Description of revisions	Designed	Checked	Date
<div>2</div>	2	DIS-H-00010588	TS. KUMAZAWA	SZ. ONO	20210826
Remarks Unless otherwise specified, refer to IEC 60512.			Approved	HK. UMEHARA	20150310
			Checked	HK. UMEHARA	20150310
			Designed	TO. HORII	20150310
			Drawn	TO. HORII	20150310
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing No.		ELC-359205-00-00
	Specification sheet		Part No.	DF63-1618PCF	
	HIROSE ELECTRIC CO., LTD.		Code No.	CL0680-0529-2-00	<div>△</div> 1/1