





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	630V AC/DC		Applicable connector	DF63(#)-*EP-3.96C(##)	
	Current	AWG 16	15A/pin	Applicable cable	AWG 16 to 18	
		AWG 18	13A/pin	Insulation diameter	φ 2.1 to φ 3.2 mm	
		Rated Voltage	Rated Current	Overvoltage Category	IP-Degree	
UL, C-UL		600V AC/DC	See above	-	-	
TÜV		300V AC/DC	See above	II	IP00	
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 Millivolt level method		20mV MAX, 1mA (DC or 1000 Hz).		10 mΩ MAX.	X	—
Mechanical characteristics						
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.		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 to 2 h.)		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 30 min → 30 min  Under 5 cycles. (The transferring time of the tank is 2 to 3 min) (After leaving the room temperature for 1 to 2 h.)		1) Contact resistance: 20 mΩ MAX. 2) No damage, crack or looseness of parts.	X	—
Remarks						
Note 1: Include 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-00010588	TS.KUMAZAWA	SZ.ONO	20210826	
Unless otherwise specified, refer to IEC 60512.				Approved	SJ.OKAMURA	20210825
				Checked	SZ.ONO	20210825
				Designed	TS.KUMAZAWA	20210825
				Drawn	TS.HONJO	20210824
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing No.		ELC-382873-00-00	
	Specification sheet		Part No.	DF63-1618PCA		
	HIROSE ELECTRIC CO., LTD.		Code No.	CL0680-0637-0-00		1/1