




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		-40% to + 80% (Note 2)		Storage humidity range	-40% to + 70% (Note 3)
	Voltage		AC/DC 500V		Applicable connector	DF33 (C) -※S/DS-3.3C
	Current		Single row	Double row	Applicable cable	UL1007:AWG20 to 22
		AWG20	5A	5A		
	AWG22	4A	4A			
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		1m A (DC or 1000 Hz).20mv MAX			10 mΩ MAX.	X -
MECHANICAL CHARACTERISTICS						
Contact insertion and extraction forces		□0.5mm±0.002 by steel gauge			Insertion force : 4.5 N MAX Extraction force : 0.5 N MIN	X -
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 2 h, for 3 directions.			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 for 3 directions.			① No electrical discontinuity of 1μs. 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.			① Contact resistance: 20 mΩ MAX. ② No damage, crack or looseness of parts.	X -
Rapid change of temperature		Temperature -55→5 to 35→+85 →5 to 35 °c Time 30→2 to 3 → 30 →2 to 3 min Under 5 cycles.			① Contact resistance: 20 mΩ MAX. ② No damage, crack or looseness of parts.	X -
Remarks						
Note 1:Including 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
	Unless otherwise specifid , refer to IEC 60512.			Approved	HS. OKAWA	17. 08. 22
				Checked	TS. FUKUSHIMA	17. 08. 22
				Designed	MI. SAKIMURA	17. 08. 22
Drawn				MI. SAKIMURA	17. 08. 22	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing no.		ELC-315947-00-00	
	Specification sheet			Part no.	DF33A-2022SC	
	Hirose electric co., ltd.			Code no.	CL676-1094-8-00	 1/1