





Applicable standard					
Rating	Operating Temperature range	-35 °C to +85°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	50 V AC/DC	Applicable Contact	DF57-*S-1.2C(##) DF57H-*S-1.2C(##)	
	Current	AWG#28 : 2.5 A AWG#30 : 1.5 A	Applicable cable	AWG#28 to AWG#30	
Insulation Diameter			φ 0.5~0.63 mm		
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		20 mV MAX, 1 mA(DC or 1000 Hz).	10 mΩ MAX.	X	—
Mechanical characteristics					
Contact insertion and extraction forces		t=0.2±0.002 mm by steel gauge.	Insertion force 5 N MAX. Extraction force 0.1 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 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 <sup>2</sup> duration of pulse 11 ms at 3 times for 3 directions.		X	—
Crimp tensile Strength		Fix the contact, pull the cable and measure the strength.	① AWG#28 : 16 N MIN.  ② AWG#30 : 8 N MIN.	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. (After leaving the room temperature for 1~2h.)		X	—
Remarks Note 1:Include the temperature rising by current. Note 2:No condensing. Note 3:Apply to the condition of long term storage for unused products before mount on pcb, After mounted on pcb, operating temperature and humidity range is applied for interim storage during transportation.					
	Count	Description of revisions	Designed	Checked	Date
	1	DIS-H-00004635	HT. SATO	SZ. ONO	20190214
Remarks  Unless otherwise specified, refer to IEC 60512.			Approved	TS. SAKATA	20091130
			Checked	MN. KENJO	20091128
			Designed	TS. KUMAZAWA	20091127
			Drawn	TS. KUMAZAWA	20091127
Note QT:Qualification test AT:Assurance test X:Applicable test			Drawing no.		ELC-322918-00-00
	Specification sheet		Part no.	DF57-2830SCF	
	Hirose electric co., ltd.		Code no.	CL666-0001-4-00	 1/1