


Applicable standard					
Rating	Operating temperature range	-40 °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	50 V AC/DC	Applicable contact	DF65-*S-1.7C	
	Current	AWG24 : 4.0 A	Applicable cable	AWG24 to AWG 28	
Insulation Diameter			Φ0.7~1.15 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			① #AWG 24 : 30 N MIN. ② # AWG 26 : 15 N MIN. ③ # AWG 28 : 10 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	—
Note 1: Include the temperature rising by current. Note2:No condensing Note3:Apply to the condition of long term storage for unused products befor pcb on board, after pcb board , operating temperature and humiditty range is applied for interim strage during transportation.					
	Count	Description of revisions	Designed	Checked	Date
△					
Remarks  Unless otherwise specified, refer to IEC 60521.			Approved	KI. AKIYAMA	15. 01. 13
			Checked	HK. UMEHARA	15. 01. 13
			Designed	YK. YAMAGUCHI	15. 01. 13
			Drawn	YK. YAMAGUCHI	15. 01. 13
Note QT:Qualification test AT:Assurance test X:Applicable test			Drawing no.		ELC-359800-05-01
	Specification sheet		Part no.	DF65-2428SCFA (05)	
	Hirose electric co., ltd.		Code no.	CL666-6016-4-05	△ 1/1