

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	
AWG26 : 2.5 A		Insulation Diameter	Φ 0.7 to 1.15 mm		
AWG28 : 2.5 A					
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 ² duration of pulse 11 ms at 3 times for 3 directions.		X	—
 Tensile strength of crimped contact (Note4)		Measure tensile strength in crimped contact core only.	AWG24 : 30N MIN AWG26 : 15N MIN AWG28 : 10N 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 to 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 to 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 before pcb on board, after pcb board, operating temperature and humidity range is applied for interim storage during transportation. Note4:Compliant cable only.					
	Count	Description of revisions	Designed	Checked	Date
	2	DIS-H-00001619	YK. YAMAGUCHI	TS. FUKUSHIMA	16.05.13
Remarks			Approved	OM. MIYAMOTO	13.08.09
			Checked	OM. MIYAMOTO	13.08.09
			Designed	TT. OHSAKO	13.08.09
			Drawn	TT. OHSAKO	13.08.09
Unless otherwise specified, refer to IEC 60521.					
Note QT:Qualification test AT:Assurance test X:Applicable test			Drawing no.		ELC-348409-00-00
	Specification sheet		Part no.	DF65-2428SCF	
	Hirose electric co., ltd.		Code no.	CL666-6003-2-00	 1/1