

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 AWG26 : 2.5 A AWG28 : 2.5 A	Applicable cable	AWG24 to AWG 28		
Insulation Diameter			Φ 0.7 to 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 ² duration of pulse 11 ms at 3 times for 3 directions.					
⚠ 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.)					
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	
Unless otherwise specified, refer to IEC 60521.			Drawn	TT. OHSAKO	13. 08. 09	
Note QT:Qualification test AT:Assurance test X:Applicable test			Drawing no.		ELC-348409-00-00	
HRS	Specification sheet		Part no.	DF65-2428SCF		
	Hirose electric co., ltd.		Code no.	CL666-6003-2-00	⚠	1/1