






Applicable standard					
Rating	Operating temperature range	-40 ℃ to +105℃ (Note1)	Storage temperature range	-10 ℃ to +60℃ (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		50 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℃ , 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℃→ +85℃ Time 30min→ 30min Under 5 cycles. (After leaving the room temperature for 1 to 2h.)		X	—
<p>Note 1: Include the temperature rising by current.</p> <p>Note2:No condensing</p> <p>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.</p> <p>Note4:Compliant cable only.</p>					
	Count	Description of revisions	Designed	Checked	Date
	2	DIS-H-00001619	YK. YAMAGUCHI	TS. FUKUSHIMA	16. 05. 13
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Unless otherwise specified, refer to IEC 60521.					
Note QT:Qualification test AT:Assurance test X:Applicable test			Drawing no.		ELC-359800-07-00
	Specification sheet		Part no.	DF65-2428SCFA (07)	
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