

Applicable standard					
Rating	Operating Temperature range	-55 °C to +105°C (Note1)	Storage Temperature range	-10 °C to +60°C (Note3)	
	Operating Humidity range	40% to 80% (Note2)	Storage Humidity range	40% to 70% (Note3)	
	Voltage	250V AC/DC	Applicable connector	DF3-*S-2C(##)	
	Current	AWG 22 : 4A	Applicable cable	UL 1061 AWG 22	
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	100mA (DC or 1000 Hz).	30 mΩ MAX.	X	—	
Mechanical characteristics					
Contact insertion and Extraction force	<input type="checkbox"/> 0.5±0.002 by steel gauge.	Insertion force 4.4N MAX Extraction force 0.3N MIN	X	—	
Mechanical operation	30 times insertion and extraction.	① Contact resistance : 30 mΩ MAX. ② No damage, crack or looseness of parts.	X	—	
Crimp tensile strength	Measure MAX, value under the following method: Apply wire tensile strength to caulking area axially Until wire become loosen or breakdown.	AWG 22 53N MIN (17 cores / 0.16 mm)	X	—	
Vibration	Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 2h, for 3 directions.	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	—	
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: 30 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. (The transferring time of the tank is 2 to 3 min) (After leaving the room temperature for 1 to 2h.)		X	—	
<p>Note 1: Include the temperature rising by current.</p> <p>Note 2: No condensing. </p> <p>Note 3: Apply to the condition of long term storage for unused products before harness assembly. After harness assembly, operation temperature and humidity range is applied for interim storage during transportation. </p>					
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Remarks			Approved	KJ. KATAYOSE	20050105
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Unless otherwise specified, refer to IEC 60512.			Designed	IO. DENPOUYA	20050105
			Drawn	IO. DENPOUYA	20050105
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing No.		ELC-071846-00-00
	Specification sheet		Part No.	DF3-22SCF	
	HIROSE ELECTRIC CO., LTD.		Code No.	CL543-0235-3-00	1/1