

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 <sup>2</sup> 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>					
	Count	Description of revisions	Designed	Checked	Date
	7	DIS-H-00005232	TO. KUROMATSU	SZ. ONO	20190902
Remarks  Unless otherwise specified, refer to IEC 60512.			Approved	KJ. KATAYOSE	20050105
			Checked	TY. OMA	20050105
			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