





Applicable standard						
Rating	Operating Temperature Range	-55to +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)	
	Applicable Connector	DF51B-7EP-2A	Current		AWG 30 : 0.5A    AWG 28 : 1A AWG 22-26 : 2A	
	Applicable Contact	DF11-22SC(A)/SCF(A) DF11-2428SC(A)/SCF(A) DF11-30SC(A)/SCF(A)	UL • C-UL Rating	Voltage	30V AC/DC	
	Voltage	250 V AC/DC		Current	AWG22 : 2.0A AWG24 to 28 : 1.0A AWG30 : 0.5A	
<b>Specifications</b>						
Item		Test method		Requirements	QT    AT	
<b>Construction</b>						
General Examination		Visually and by measuring instrument.		According to drawing.	X    X	
Marking		Confirmed visually.			X    X	
<b>Electric Characteristics</b>						
Insulation Resistance		500 V DC.		1000 MΩ MIN.	X    —	
Voltage Proof		650 V AC for 1 min.		No flashover or breakdown.	X    —	
<b>Mechanical Characteristics</b>						
Mechanical Operation (Sn Plating)		30 times insertion and extraction.		1.No damage, crack or looseness of parts.	X    —	
Mechanical Operation (An Plating)		50 times insertion and extraction.		1.No damage, crack or looseness of parts.	X    —	
Mating and unmating Force (Sn Plating)		It takes out and inserts with a conformity connector.		1.Insertion Force : 42.0N MAX. 2.Extraction Force : 1.75N MIN.	X    —	
Mating and unmating Force (Au Plating)		It takes out and inserts with a conformity connector.		1.Insertion Force : 33.7N MAX. 2.Extraction Force : 1.75N MIN.	X    —	
Vibration		Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 direction.		1.No electrical discontinuity of 1 μ s. 2.No damage, crack or looseness of parts.	X    —	
Shock		Acceleration 490 m/s <sup>2</sup> duration of pulse 11 ms at 3 times for 3 directions.			X    —	
Contact extraction force		Pull out the cable after housing fixation.		11.8N MIN	X    —	
<b>Environmental Characteristics</b>						
Damp Heat (Steady State)		Exposed at 40 ± 2°C , humidity 90 to 95 %, 96 h. (After leaving the room temperature for 1 to 2h.)		1.Insulation resistance: 500 MΩ MIN. 2.No damage, crack or looseness of parts.	X    —	
Rapid Change Of Temperature		Temperature -55°C→ +105°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.)		1.Insulation resistance: 1000 MΩ MIN. 2.No damage, crack or looseness of parts.	X    —	
Dry Heat		Exposed at 105±2°C, 96h			X    —	
Cold		Exposed at -55±3°C, 96h			X    —	
Remarks  Note 1: Include the temperature rising by current. Note 2: No condensing Note 3: Apply to the unused and packaged condition.						
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
	1	DIS-H-00019158	KT. NUMATA	TT. OHSAKO	20230920	
Unless otherwise specified, refer to IEC 60512.				APPROVED	S.J. OKAMURA	20221024
				CHECKED	TT. OHSAKO	20221024
				DESIGNED	KI. SUGAWARA	20221021
				DRAWN	KI. SUGAWARA	20221021
Note    QT:Qualification Test    AT:Assurance Test    X:Applicable Test			DRAWING NO.		ELC-398776-00-00	
	SPECIFICATION SHEET		PART NO.	DF51-7S-2C		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0543-5131-0-00	 2/1	