

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-4/10EP-2A-4PRT(##)	Current	AWG 30 : 0.5A/pin AWG 28 : 1A/pin AWG 22-26 : 2A/pin
	Applicable Contact	DF11-22SC(F)A(##) DF11-2428SC(F)A(##) DF11-30SC(F)A(##)	UL · C-UL Rating	Voltage Current
Voltage	250 V AC/DC			30V AC/DC AWG22 : 2.0A AWG24 to 28 : 1.0A AWG30 : 0.5A

Specifications

Item	Test method	Requirements	QT	AT
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Construction

General Examination	Visually and by measuring instrument.	According to drawing.	X	X
Marking	Confirmed visually.		X	X

Electric Characteristics

Insulation Resistance	500 V DC.	1000 MΩ MIN.	X	—
Voltage Proof	650 V AC for 1 min.	No flashover or breakdown.	X	—

Mechanical Characteristics

Mechanical Operation	50 times insertion and extraction.	1.No damage, crack or looseness of parts.	X	—
Mating and Unmating Force	It takes out and inserts with a conformity connector.	1.Insertion Force : 21.7N MAX. 2.Extraction Force : 1.0N MIN.	X	—
Mating Retention Force	Pull out the cable after mated.	30N 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 ² 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	—

Environmental Characteristics

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	
△ 0					
Unless otherwise specified, refer to IEC 60512.			APPROVED	S.J. OKAMURA	20240926
			CHECKED	TT. OHSAKO	20240926
			DESIGNED	SN. MIWA	20240926
			DRAWN	SK. CHIBA	20240926
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-405316-00-00		
HRS	SPECIFICATION SHEET		PART NO.	DF51BA-4S-2C	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0543-5139-0-00	△ 0 1/1