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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

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 (Note4) △1
	Applicable Contact	DF11-22SC(F)A(##) DF11-2428SC(F)A(##) DF11-30SC(F)A(##)	UL・C-UL Rating	Voltage	30V AC/DC
				Current	AWG22 : 2.0A AWG24 to 28 : 1.0A AWG30 : 0.5A
	Voltage	250 V AC/DC			

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				
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 : 35.5N MAX. 2.Extraction Force : 2.5N 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 μs. 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.
Note 4: When AWG22 is used on both the 1PORT and 4PORT sides, and contact No.1, 2, 3, 4, 7, 8, 9, and 10 on the 1PORT side are used at 0.5 A/pin or less, the rated current of contact No.5 and 6 on the 1PORT side shall be 6A/pin. At this time, the rated current of contact No.1 and 4 on the 4PORT side shall be 1.5 A/pin. △1

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△1	2	DIS-H-00021482	SN.MIWA	TT.OHSAKO	20240926

APPROVED	SJ.OKAMURA	20240725
CHECKED	TT.OHSAKO	20240725
DESIGNED	SN.MIWA	20240725
DRAWN	SN.MIWA	20240725

Unless otherwise specified, refer to IEC 60512.

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

HRS	SPECIFICATION SHEET	DRAWING NO.	ELC-405053-00-00	
		PART NO.	DF51B-10S-2C	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL0543-5138-0-00 △1	1/1

FORM HD0011-2-1