Applicable standard					
Rating	Operating Temperature Range	-55°C to +85°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)
	Voltage	50 V AC/DC		Applicable Connector	DF53-5S-0.6H(##)
	Current	All pin	AWG 32 : 0.7A	Applicable Contact	DF53-32SCF
		Any of 2 pins as a power	AWG 32 : 1.3A(power), 0.5A(signal)		

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	100 V DC.	100 MΩ MIN.	X	—
Voltage Proof	200 V AC for 1 min.	No flashover or breakdown.	X	—
Mechanical Characteristics				
Mechanical Operation	20 times insertion and extraction.	No damage, crack or looseness of parts.	X	—
Mating and unmating Force	It takes out and inserts with a conformity connector.	1.Insertion Force : 14.6N MAX. 2.Extraction Force : 1.9N MIN.	X	—
Vibration	Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 direction.	No damage, crack or looseness of parts.	X	—
Shock	Acceleration 500 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.	3N 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: 100 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: 100 MΩ MIN. 2. No damage, crack or looseness of parts.	X	—
Dry Heat	Exposed at 85±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. Apply to the condition of long term storage for unused products before harness assembly.
Note 3: Applicable to unused product packaging.

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△0	0				

APPROVED	SJ. OKAMURA	20231228
CHECKED	SZ. ONO	20231228
DESIGNED	JN. TONAI	20231227
DRAWN	JN. TONAI	20231227

Unless otherwise specified, refer to IEC 60512.

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

DRAWING NO. ELC-380634-00-00

HRS	SPECIFICATION SHEET	PART NO.	DF53-5P-0.6C
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL0668-1016-0-00 △0 2/1

FORM HD0011-2-1