Applicab	ole standard								
Rating	Operating Temperature Range		-55°C to +85°C (Note1)		Storage Temperature Range		-10 °C to +60°C (Note3)		3)
	Operating Humidity Range		20% to 80% (Note2)		Storage Humidity Range		40% to 70% (Note3)		
	Voltage		50 V AC/DC		Applicable Connector		DF53-16S-0.6H(##)		
			All pin	AWG 32 : 0.7A	Applic	able Contact	DF53-32SCF		
	Current		Any of 2 pins as a power	AWG 32 : 1.3A(power), 0.5A(signal)					
			S	Specification	ns				
Item			Test method			Requirements			AT
Constru	ction	-1							
General E	xamination	Visually and by measuring instrument.				According to drawing.			Х
Marking		Confirmed visually.					X	Х	
Electric	Characteristics							ΙX	
Insulation Resistance		100 V DC.			100 MΩ MIN.			_	
Voltage Proof		200 V AC for 1 min.			No flashover or breakdown.			_	
	ical Characteris								
Mechanical Operation		20 times insertion and extraction.				No damage, crack or looseness of parts.			_
Mating and unmating Force		It takes out and inserts with a conformity connector.				1.Insertion Force : 22.4N MAX. 2.Extraction Force : 4.6N MIN.			_
Vibration		Frequency 10 to 55 Hz, single amplitude 0.75 mm, at				No damage, crack or lo	Х	_	
		10 cycles for 3 direction.							
Shock		Acceleration 500 m/s ² duration of pulse 11 ms at 3						Х	_
		times for 3 di	rections.						
		able after housing fixation.			3N MIN		Х	_	
	mental Charact							X	•
Damp Heat (Steady State)		Exposed at 40 \pm 2°C , humidity 90 to 95 %, 96 h. (After leaving the room temperature for 1 to 2h.)				1.Insulation resistance: 100 M Ω MIN. 2.No damage, crack or looseness of parts.			_
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.)			Insulation resistance No damage, crack or		Х	_	
Dry Heat		Exposed at 85±2°C, 96h						Х	_
Cold		Exposed at -55±3°C, 96h						Х	_
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	
1	1	DIS-H-00019500		SZ. ONO	20231120		
				APPROVE	D SJ. OKAMURA	20230728	
				CHECKED	SZ. ONO	20230728	
				DESIGNED	JN. TONAI	20230728	
Unless	otherwise	specified, refer to IEC 60512.		DRAWN	JN. TONAI	20230728	
Note	QT:Qualifi	cation Test AT:Assurance Test X:Applicable Test	DRAWING NO.		ELC-380640-00-00		
н	25	SPECIFICATION SHEET	PART NO.		DF53-16P-0. 6C		
11.	~	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL06	68-1022-0-00	1/1 1/1	