

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	100 V AC/DC	Applicable Connector	DF58-*S-1.2C	
	Current	AWG28:3.0A	Applicable cablet	AWG28 to AWG30	
AWG30:2.5A		Insulation diameter	φ 0.5 to 0.6mm		
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					
Contact Resistance	20mV MAX, 1mA (DC or 1000Hz).	10 mΩ MAX.	X	—	
Millivolt Level Method					
Mechanical Characteristics					
Contact insertion And extraction forces	T=0.2±0.002 mm by steel gauge.	Insertion force 5 N MAX. Extraction force 0.1 N MIN.	X	—	
Mechanical Operation	10 times insertion and extraction.	1.Contact resistance : 20 mΩ MAX. 2.No damage, crack or looseness of parts.	X	—	
Mating and unmating force	It takes out and inserts with a conformity connector.	Number of contacts	Mating force	Unmating force	
		2	12.0N MAX	1.2N MIN	
		3	16.0N MAX	1.3N MIN	
		4	20.0N MAX	1.4N MIN	
		6	28.0N MAX	1.6N MIN	
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 extract force	Pull out the cable after housing fixation.	4N MIN	X	—	
Crimp tensile strength	Pull out the cable after crimp contact fixation.	AWG28(7/0.127mm) 11N MIN AWG30(7/0.102mm) 6.7N 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.Contact resistance: 20 mΩ MAX. 2.No damage, crack or looseness of parts.	X	—	
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.)				
Dry Heat	Exposed at 85±2°C, 96h				
Cold	Exposed at -55±3°C, 96h				
Remarks					
Note 1: Include the temperature rising by current.					
Note 2: No condensing.					
Note 3: Apply to the condition of long term storage for unused products before pcb on board, after pcb board , operating temperature and humidity range is applied for interim storage during transportation.					
Note 4: Applies to the case holding portion of the contact terminal and housing is damaged. Applies "Crimp tensile strength" to the case crimped portion is damaged.					
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△					
Unless otherwise specified, refer to IEC 60512.			APPROVED	HS. OKAWA	16. 06. 21
			CHECKED	YN. TAKASHITA	16. 06. 20
			DESIGNED	TH. YOSHIKAWA	16. 06. 20
			DRAWN	TH. YOSHIKAWA	16. 06. 20
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-367526-00-00
HRS	SPECIFICATION SHEET		PART NO.	DF58-2830SCF	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL666-1011-0-00	△ 1/1