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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		-55 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-*P-1.2V(##)
	Current	Number of contacts	AWG28	AWG30	Applicable Contact	DF58-2830SCF
2		3.0A	2.5A			
3		2.5A	2.0A			
	4,6	2.0A	1.5A			

### 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	100 V DC.	100 MΩ MIN.	X	—
Voltage Proof	500 V AC for 1 min.	No flashover or breakdown.	X	—

#### Mechanical Characteristics

Mechanical Operation	10 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.	Number of contacts	Mating force	Unmating force	X	—
		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.	No damage, crack or looseness of parts.	X	—		
Shock	Acceleration 490 m/s <sup>2</sup> duration of pulse 11 ms at 3 times for 3 directions.		X	—		
Contact extraction force	Pull out the cable after housing fixation.	4N 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 → +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.

△	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. YOSHIZAWA	16. 06. 20
	DRAWN	TH. YOSHIZAWA	16. 06. 20

Note QT:Qualification Test AT:Assurance Test X:Applicable Test      DRAWING NO.      ELC-371176-00-00

<b>HRS</b>	SPECIFICATION SHEET		PART NO.	DF58-*S-1. 2C	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL666-	△ 1/1