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