







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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	-35 to +85°C (Note1)	Storage Temperature Range	-10 °C to +60°C (Note3)	
	Operating Humidity Range	40% to 80% (Note2)	Storage Humidity Range	40% to 70% (Note3)	
	Voltage	100 V AC/DC	Applicable Connector	DF20%-*DS-1C	
	Current	AWG 28 : 1.0A AWG 30 : 0.9A			Applicable Wire
			Jacket Diameter : 0.5-0.6mm		
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 Millivolt Level Method	20mV max, 1mA (DC or 1000Hz).		30 mΩ MAX.	X	—
Mechanical Characteristics					
Mechanical Operation	50 times insertion and extraction.		1) Contact resistance: 30 mΩ MAX. 2) No damage, crack or looseness of parts.	X	—
Vibration	Frequency 10-55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 directions. 		1) No electrical discontinuity of 1 μ s. 2) 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. 		1) No electrical discontinuity of 1 μ s. 2) No damage, crack or looseness of parts.	X	—
Crimp Contact Tensile Strength	Fix the contact and pull the wire in vertical direction.		28 AWG (7/0.127mm) : 10 N MIN. 30 AWG (7/0.102mm) : 8 N MIN.	X	—
Environmental Characteristics					
Damp Heat (Steady State)	Exposed at 40 ± 2°C, humidity 90-95 %, 96 h. (After leaving the room temperature for 1-2h.)		1) Contact resistance: 30 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 2-3 min) (After leaving the room temperature for 1-2h.)		1) Contact resistance: 30 mΩ MAX. 2) No damage, crack or looseness of parts.	X	—
Dry Heat 	Exposed at +85±2°C, 96h		1) Contact resistance: 30 mΩ MAX. 2) No damage, crack or looseness of parts.	X	—
Cold 	Exposed at -55±3°C, 96h		1) Contact resistance: 30 mΩ MAX. 2) No damage, crack or looseness of parts.	X	—
Remarks Note 1 : Include the temperature rising by current. Note 2 : No condensing. Note 3 : Apply to packed condition.					
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
	4	DIS-H-00005881	SN. MIWA	SZ. ONO	20200616
Unless otherwise specified, refer to IEC 60512.			APPROVED	TS. SAKATA	20080612
			CHECKED	TS. KUMAZAWA	20080612
			DESIGNED	TH. YOSHIZAWA	20080612
			DRAWN	TH. YOSHIZAWA	20080612
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-164278-01
HRS	SPECIFICATION SHEET		PART NO.	DF20F-2830SCFA (04)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL686-0042-6-04	 1/1