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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	28-30 AWG 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	1) No electrical discontinuity of 1 μs. 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	1) No electrical discontinuity of 1 μs. 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 △1	Exposed at +85±2°C, 96h	1) Contact resistance: 30 mΩ MAX. 2) No damage, crack or looseness of parts.	X	—
Cold △1	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
△1	4	DIS-H-00005881	SN.MIWA	SZ.ONO	20200616

APPROVED	TS.SAKATA	20080612
CHECKED	TS.KUMAZAWA	20080612
DESIGNED	TH.YOSHIZAWA	20080612
DRAWN	TH.YOSHIZAWA	20080612

Unless otherwise specified, refer to IEC 60512.

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	1/1

FORM HD0011-2-1