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Applicable standard					
Rating	Operating Temperature range	-55 °C to +105°C (Note1)	Storage Temperature range		-10 °C to +60°C (Note2)
	Operating Humidity range	20% to 80%	Storage Humidity range		40% to 70% (Note2)
	Voltage	250 V AC/DC	UL・C-UL Rating ⚠1	Voltage	29.9 V AC/DC
	Current	AWG 20 : 4 A AWG 22 : 3A AWG 24 : 2 A AWG 26 : 1 A		Current	4A
	Applicable Connector	DF62W-9S-2.2C(##)		Operating temperature range	-55 °C to +75°C (Note1)

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).	30 mΩ MAX.	X	–
Insulation resistance	500 V DC.	1000 MΩ MIN.	X	–
Voltage proof	650 V AC for 1 min.	No flashover or breakdown.	X	–
Mechanical characteristics				
Mechanical operation	50 times insertion and extraction.	①Contact resistance: 30 mΩ MAX. ②No damage, crack or looseness of parts.	X	–
Vibration	Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 direction.	①No electrical discontinuity of 1 μs. ②No damage, crack or looseness of parts.	X	–
Shock	490 m/s^2 duration of pulse 11 ms at 3 times each for 3 both axial directions.	①No electrical discontinuity of 1 μs. ②No damage, crack or looseness of parts.	X	–
Mating force	Measured by applicable connector.	Insertion force : 33.7 N MAX Extraction force : 1.75 N MIN	X	–
Lock strength	Measured by applicable connector.	30 N MIN	X	–
Environmental characteristics				
Damp heat (Steady state)	Exposed at 40 ± 2℃ , 90 to 95 %, 96 h. (After leaving the room temperature for 1 to 2h.)	①Contact resistance: 30 mΩ MAX. ②Insulation resistance: 500 MΩ Min. ③No damage, crack or looseness of parts.	X	–
Rapid change of temperature	Temperature -55℃→ +105℃ 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.)	①Contact resistance: 30 mΩ MAX. ②Insulation resistance: 1000 MΩ Min. ③No damage, crack or looseness of parts.	X	–
Dry heat	Exposed at +105℃,96h.	①Contact resistance: 30 mΩ MAX. ②Insulation resistance: 1000 MΩ Min. ③No damage, crack or looseness of parts.	X	–
Cold	Exposed at −55℃,96h.	①Contact resistance: 30 mΩ MAX. ②Insulation resistance: 1000 MΩ Min. ③No damage, crack or looseness of parts.	X	–

Note 1: Include the temperature rising by current.
Note2: Apply to the condition of long term storage for unused products before being processed of mounted on products. After before being processed or mounted on products, operating temperature and humidity range is applied for interim strage during transportation.

	Count	Description of revisions	Designed	Checked	Date
⚠1	1	DIS-H-00004368	HT. SATO	SZ. ONO	20190107

Remarks

Unless otherwise specified, refer to IEC 60512.

Approved	HS. OKAWA	20180801
Checked	ST. WADA	20180801
Designed	YK. YAMAGUCHI	20180801
Drawn	KI. SUGAWARA	20180801

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

		Drawing No.	ELC-379591-50-00	
HRS	Specification sheet	Part No.	DF62WZ-9P-2. 2DSA(50)	
	HIROSE ELECTRIC CO., LTD.	Code No.	CL544-1050-0-50 ⚠1	1/2

Specifications

Item	Test method	Requirements	QT	AT
Resistance to Soldering heat	1) Automatic soldering (flow) Soldered at solder temperature,260℃ for in immersion,duration,10s. 2)Manual soldering Soldering iron temperature:300℃, Soldertime:3s. No strength on contact.	No defomation of case of excessive looseness of the terminals.	X	–
Solderability	Soldered at solder tempereture 245℃ for in immersion,duration,5s.	A new uniform coating of solder shall cover minimum of 95% of the surface being immersed.	X	–
Sealing	Exposed at a depth of 1m for 0.5h.	No water penetration inside connector.	X	–

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