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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	Voltage	29.9 V AC/DC
	Current	AWG 20 : 4 A/pin AWG 22 : 3A/pin AWG 24 : 2 A/pin AWG 26 : 1 A/pin		Current	4A/pin
	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	30 times insertion and extraction.	1)Contact resistance: 30 mΩ MAX. 2)No damage, crack or looseness of parts.	X	–
Vibration	Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 direction.	1)No electrical discontinuity of 1 μs. 2)No 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.		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.)	1)Contact resistance: 30 mΩ MAX. 2)Insulation resistance: 500 MΩ Min. 3)No 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.)	1)Contact resistance: 30 mΩ MAX. 2)Insulation resistance: 1000 MΩ Min. 3)No damage, crack or looseness of parts.	X	–
Dry heat	Exposed at +105℃,96h.		X	–
Cold	Exposed at −55℃,96h.		X	–

Remarks
Note 1: Include the temperature rising by current.
Note 2: Apply to the condition of long term storage for unused products before mounted on PCB.
After mounted on PCB, operation temperature and humidity range is applied for interim storage during transportation.

	Count	Description of revisions	Designed	Checked	Date
2	1	DIS-H-00006308	HT. SATO	SZ. ONO	20200901

Unless otherwise specified, refer to IEC 60512.			
	Approved	HS. OKAWA	20180227
	Checked	TS. FUKUSHIMA	20180227
	Designed	HT. SATO	20180227
	Drawn	SN. MIWA	20180227

Note QT:Qualification Test AT:Assurance Test X:Applicable Test	Drawing No.	ELC-379591-20-00	
HRS Specification sheet	Part No.	DF62WZ-9P-2. 2DSA(20)	
HIROSE ELECTRIC CO., LTD.	Code No.	CL544-1050-0-20	2 1/2

FORM HD0011-2-1

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Specifications

Item	Test method	Requirements	QT	AT
Resistance to Soldering heat ②△	1) Solder bath method Soldered at solder temperature 260°c for in immersion , duration, 10 s. 2) Manual soldering Soldering iron temperature:300℃, Soldering time: 3s. No strength on contact.	Such as impaired function ,no deformation of case of excessive looseness of the terminals.	X	—
Solderability	Soldered at solder temperature 245℃ for in immersing 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	—