

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 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°C , 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°C→ +105°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.)		①Contact resistance: 30 mΩ MAX. ②Insulation resistance: 1000 MΩ Min. ③No damage, crack or looseness of parts.		X	—	
Dry heat		Exposed at +105°C,96h.		①Contact resistance: 30 mΩ MAX. ②Insulation resistance: 1000 MΩ Min. ③No damage, crack or looseness of parts.		X	—	
Cold		Exposed at -55°C,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	DIS-H-00004368		HT. SATO		SZ. ONO		20190107
Remarks				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		
	Specification sheet			Part No.		DF62WZ-9P-2. 2DSA (50)		
	HIROSE ELECTRIC CO., LTD.			Code No.		CL544-1050-0-50		 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	—	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test					
Drawing No.		ELC-379591-50-00			
	Specification sheet	Part No.	DF62WZ-9P-2. 2DSA (50)		
	HIROSE ELECTRIC CO., LTD.	Code No.	CL544-1050-0-50		2/2