



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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	-40 °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)
	Applicable Connector 	DF63WA-4S-3.96C	Voltage	630V AC/DC
	Applicable contact	DF63-1618PC* DF63-2022PC*	Current 	AWG 16 : 12 A/pin
	Insulation diameter	φ 1.7~ φ 2.4mm		AWG 18 : 9 A/pin AWG 20 : 7 A/pin AWG 22 : 6 A/pin

Specifications

Item	Test method	Requirements	QT	AT
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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).	10 mΩ MAX.	X	-
Insulation resistance	500 V DC.	1000 MΩ MIN.	X	-
Voltage proof	1500 V AC for 1 min.	No flashover or breakdown.	X	-


Mechanical characteristics

Mechanical operation	30 times insertion and extraction.	1)Contact resistance: 20 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.	1)No electrical discontinuity of 1 μs. 2)No damage, crack or looseness of parts.	X	-

Environmental characteristics



Damp heat (Steady state)	Exposed at 40 ± 2°C , 90 to 95 %, 96 h. (After leaving the room temperature for 1~2h.)	1)Contact resistance: 20 mΩ MAX. 2)Insulation resistance: 500 MΩ Min. 3)No 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 2~3 min) (After leaving the room temperature for 1~2h.)	1)Contact resistance: 20 mΩ MAX. 2)Insulation resistance: 1000 MΩ Min. 3)No damage, crack or looseness of parts.	X	-
Sealing	Exposed at a depth of 1m for 0.5h.	No water penetration inside connector.	X	-

Remarks
 Note 1: Include the temperature rising by current.
 Note 2: Apply to the packaged and unused product. 

Count	Description of revisions	Designed	Checked	Date
 3	DIS-H-00018492	HT. SATO	SZ. ONO	20230615
		Approved	HK. UMEHARA	20150310
		Checked	HK. UMEHARA	20150310
		Designed	TO. HORII	20150310
		Drawn	TO. HORII	20150310

Unless otherwise specified, refer to IEC 60512.

Note QT:Qualification Test AT:Assurance Test X:Applicable Test Drawing No. ELC-359253-00-00

	Specification sheet	Part No.	DF63WA-4EP-3.96C		
	HIROSE ELECTRIC CO., LTD.	Code No.	CL0680-0611-1-00		1/1