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 △1	DF63W-3S-3.96C	Voltage	630V AC/DC
	Applicable contact	DF63-1618PC*	Current △1	AWG 16 : 13 A/pin AWG 18 : 10 A/pin
	Insulation diameter	φ2.8～φ3.2mm		

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).	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 1μs. 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 1μs. 2)No damage, crack or looseness of parts.	X	–
Environmental characteristics				
Damp heat (Steady state)	Exposed at 40 ± 2℃ , 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℃→ +105℃ 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. △1

	Count	Description of revisions	Designed	Checked	Date
△1	3	DIS-H-00018473	HT.SATO	SZ.ONO	20230613

Remarks			
	Approved	HK.UMEHARA	20150311
	Checked	HK.UMEHARA	20150311
Unless otherwise specified, refer to IEC 60512.	Designed	TO.HORII	20150311
	Drawn	TO.HORII	20150311

Note QT:Qualification Test AT:Assurance Test X:Applicable Test	Drawing No.	ELC-359248-00-00	
HRS Specification sheet	Part No.	DF63W-3EP-3.96C	
HIROSE ELECTRIC CO., LTD.	Code No.	CL0680-0606-1-00	△1 1/1

FORM HD0011-2-1