

Sep. 1. 2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
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	-15°C to +60°C	Storage Temperature Range	-10°C to +60°C
	Voltage	AC 100 V, DC 140 V	_____	_____
	Current	2 A	Applicable Cable	(ϕ 4.8)
SPECIFICATIONS				
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
General Examination	Examined visually and with a measuring instrument.	According to the drawing.	X	X
Marking	Confirmed visually.		X	X
ELECTRICAL CHARACTERISTICS				
Contact Resistance	Measured at DC 1A.	30 m Ω MAX. (Contact) 60 m Ω MAX. (Ground)	X	X
Insulation Resistance	Measured at 250 V DC.	200 M Ω MIN.	X	X
Voltage Proof	300 V AC applied for 1 min.	No flashover or breakdown.	X	X
MECHANICAL CHARACTERISTICS				
Connector Insertion and Withdrawal Forces	Measured with an applicable connector.	Insertion and withdrawal forces : 5 to 50 N.	X	-
Mechanical Operation	Mated and unmated 1000 times.	50 m Ω MAX. (Contact) 70 m Ω MAX. (Ground)	X	-
Vibration	Frequency: 10 Hz to 55 to 10 Hz every cycle ,5 min./cycle. Single amplitude: 0.75 mm Performed over 10 cycles in each of three mutually perpendicular directions.	1) No electrical discontinuity of more than 10 μ s. 2) No damage, cracks or looseness of parts.	X	-
Shock	Acceleration: 490 m/s ² , Half sine wave pulses of 11 ms. Performed 3 times in each of three mutually perpendicular directions.	1) No electrical discontinuity of more than 10 μ s. 2) No damage, cracks or looseness of parts.	X	-
ENVIRONMENTAL CHARACTERISTICS				
Damp Heat, Steady State	Subjected to a temperature of +40°C, at a humidity of 90 to 95% for 96 hours.	1) Insulation resistance: 2 M Ω MIN. (When high humidity) 2) Insulation resistance: 20 M Ω MIN. (When dry) 3) No damage, cracks or looseness of parts.	X	-
Rapid Change of Temperature	Temperature: -15 \rightarrow R/T ⁽¹⁾ \rightarrow +60 \rightarrow R/T °C Time: 30 \rightarrow 10 to 15 \rightarrow 30 \rightarrow 10 to 15 min for 5 cycles.	1) Insulation resistance: 200 M Ω MIN. 2) No damage, cracks or looseness of parts.	X	-
Corrosion Salt Mist	Subjected to 5% salt spray for 48 hours.	No heavy corrosion which impairs functionality.	X	-
Dry Heat	Subjected to +60°C for 96 hours.	No damage, cracks or looseness of parts.	X	-
Cold	Subjected to -15°C for 96 hours.	No damage, cracks or looseness of parts.	X	-
Resistance to soldering heat	Soldering iron is placed to the soldering surface for 3 s. (Iron tip temperature +260°C)	No deformation or excessive looseness of terminals.	X	-
Solder ability	Soldered at solder temperature, +260°C for immersion duration, 2 to 3 s.	Soldering surface shall be free from pin-holes, de-wetted and un-wetted areas and other effects.	X	-
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
①				
Remark		APPROVED		
Note (1) R/T : Room Temperature		CHECKED		
		DESIGNED	TY. SUZUKI	20200925
Unless otherwise specified, refer to IEC 60512. (JIS C 5402)		DRAWN	TY. SUZUKI	20200925
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-043932-41-00	
HRS	SPECIFICATION SHEET	PART NO.	HR212-10P-8P (41)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL0112-4001-3-41	① 1/1