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In case that the application demands a high level of reliability, such as automotive, please contact a company representative for further information.

APPLICABLE STANDARD				
RATING	Operating temperature range	-55 °C to 85 °C	Storage temperature range	-10 °C TO 50 °C (packed condition)
	Voltage	30V AC / DC	Operating or storage humidity range	Relative humidity 90 %MAX(not dewed)
	Current	0.20 A	Applicable cable	t=0.2±0.02mm, gold plating
SPECIFICATIONS				
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
<b>CONSTRUCTION</b>				
General examination	Visually and by measuring instrument.	According to drawing. (note 1,2)	×	×
Marking	Confirmed visually.		×	×
<b>ELECTRICAL CHARACTERISTICS</b>				
Voltage proof	90 V AC for 1 min.	No flashover or breakdown.	×	×
Insulation resistance	100 V DC.	50 MΩ MIN.	×	×
Contact resistance	AC 20 mV MAX, 1 mA.	200 mΩ MAX. including fpc,ffc bulk resistance (L=8mm)	×	×
<b>MECHANICAL CHARACTERISTICS</b>				
Vibration	Frequency 10 to 55 Hz, half amplitude 0.75 mm, for 10 cycles in 3 axial directions.	① No electrical discontinuity of 1 μs. ② Contact resistance: 200 mΩ MAX.	×	—
Shock	981 m/s <sup>2</sup> , duration of pulse 6 ms at 3 times in 3 both axial directions.	③ No damage, crack and looseness of parts.	×	—
Mechanical operation	10times insertions and extractions.	① Contact resistance: 200 mΩ MAX. ② No damage, crack and looseness of parts.	×	—
FPC retention force	Measured by applicable fpc. (thickness of fpc shall be t=0.20mm at initial condition.)	Direction of insertion : 1.98 N MIN (note 3)	×	—
<b>ENVIRONMENTAL CHARACTERISTICS</b>				
Corrosion salt mist	Exposed at 35±2 °C, 5 % salt water spray for 96 h.	① Contact resistance: 200 mΩ MAX. ② No damage, crack and looseness of parts. ③ No evidence of corrosion which affects to operation of connector.	×	—
Rapid change of temperature	Temperature -55→+15TO+35→+85→+15TO+35°C Time 30→ 2 TO 3 → 30 → 2 TO 3 min Under 5 cycles.	① Contact resistance: 200 mΩ MAX. ② Insulation resistance: 50 MΩ MIN. ③ No damage, crack and looseness of parts.	×	—
Damp heat (steady state)	Exposed at 40±2 °C, Relative humidity 90 to 95 %, 96 h.		×	—
Damp heat,cyclic	Exposed at -10 to +65 °C, Relative humidity 90 to 96 %, 10 cycles, total 240 h.	① Contact resistance: 200 mΩ MAX. ② Insulation resistance: 1 MΩ MIN. (at high humidity) ③ Insulation resistance: 50 MΩ MIN. (at dry) ④ No damage, crack and looseness of parts.	×	—
Dry heat	Exposed at 85±2 °C, 96 h.	① Contact resistance: 200 mΩ MAX.	×	—
Cold	Exposed at -55±3°C, 96 h.	② No damage, crack and looseness of parts.	×	—
Sulphur dioxide [JIS C 60068-2-42]	Exposed at 40±2 °C, Relative humidity 80±5% 25±5 ppm for 96 h.	① Contact resistance: 200 mΩ MAX. ② No damage, crack and looseness of parts. ③ No evidence of corrosion which affects to operation of connector.	×	—
Hydrogen sulphide [JIS C 60068-2-43]	Exposed at 40±2 °C, Relative humidity 80±5% , 10 to 15 ppm for 96 h.		×	—
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△				
REMARK		APPROVED	NF. MIYAZAKI	16.01.12
		CHECKED	HS. SAKAMOTO	16.01.12
		DESIGNED	SI. MIZUSAWA	16.01.12
Unless otherwise specified, refer to IEC 60512.		DRAWN	SI. MIZUSAWA	16.01.12
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-367578-00-00	
<b>HRS</b>	SPECIFICATION SHEET	PART NO.	FH58M-7S-0.25SHW	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL580-3811-0-00	△ 1/2

# SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
Solderability	Soldered at solder temperature, 245±3°C for immersion duration, 3±0.3 sec.	A new uniform coating of solder shall cover a minimum of 95 % of the surface being immersed.	X	—
Resistance to soldering heat	1) Reflow soldering : peak tmp. 250 °C MAX . reflow tmp. over 230 °C within 60 sec. 2) Soldering irons : tmp. 350±10 °C for 5±1 sec .	No deformation of case of excessive looseness of the terminals. ( <b>note 4</b> )	X	—

**(note1)**

This connector is back flip lock type, and top/bottom both contact points are available.

**(note2)**

Do not close the actuator before inserting fpc even after the connector is mounted onto a pcb.

Closing the actuator without fpc could make the contact gap smaller, which increases the fpc insertion force.

**(note3)**

Stabilize the fpc to pcb or something fixed, if pull-up or pull-down force is expected to be applied to the fpc.

**(note4)**

Blisters which may be generated on the housing do not affect product performance.

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