

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	
<b>SPECIFICATIONS</b>					
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 ondition.)		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
			DRAWN	SI. MIZUSAWA	16.01.12
Unless otherwise specified, refer to IEC 60512.					
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℃ for immersion duration, 3±0.3 sec.	A new uniform coating of solder shall cover a minimum of 95 % of the surface being immersed.	×	—	
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> )	×	—	
<p><b>(note1)</b></p> <p>This connector is back flip lock type, and top/bottom both contact points are available.</p> <p><b>(note2)</b></p> <p>Do not close the actuator before inserting fpc even after the connector is mounted onto a pcb.</p> <p>Closing the actuator without fpc could make the contact gap smaller, which increases the fpc insertion force.</p> <p><b>(note3)</b></p> <p>Stabilize the fpc to pcb or something fixed, if pull-up or pull-down force is exepcted to be applied to the fpc.</p> <p><b>(note4)</b></p> <p>Blisters which may be generated on the housing do not affect product performance.</p>					
Note   QT:Qualification Test   AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-367578-00-00
<div style="display: flex; align-items: center;"> <div style="font-size: 2em; font-weight: bold; margin-right: 10px;">HRS</div> <div>             SPECIFICATION SHEET              HIROSE ELECTRIC CO., LTD.           </div> </div>		PART NO.	FH58M-7S-0. 25SHW		
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