APPLICABLE STANDARD				
RATING	Operating temperature range	-55 °C to 85 °C	Storage temperature range	-10℃ TO 50℃(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
CONSTRUCTION				
General examination	Visually and by measuring instrument.	According to drawing. (***note 1,2***)	×	×
Marking	Confirmed visually.		×	×
ELECTRICAL CHARACTERISTICS				
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)	×	×
MECHANICAL CHARACTERISTICS				
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^2 , 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***)	×	—
ENVIRONMENTAL CHARACTERISTICS				
Corrosion salt mist	Exposed at 35±2 ℃, 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. ② No damage, crack and looseness of parts.	×	—
Cold	Exposed at -55±3°C, 96 h.		×	—
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

Unless otherwise specified, refer to IEC 60512.

APPROVED	NF.MIYAZAKI	16.01.12
CHECKED	HS.SAKAMOTO	16.01.12
DESIGNED	SI.MIZUSAWA	16.01.12
DRAWN	SI.MIZUSAWA	16.01.12

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC-367578-00-00

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. FH58M-7S-0.25SHW

CODE NO. CL580-3811-0-00 △ 1/2

FORM HD0011-2-1

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.	×	—
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. (***note 4***)	×	—

(*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 exepected to be applied to the fpc.

(*note4*)

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