APPLICABLE STANDARD				
RATING	Operating temperature range	-55 °C to 85 °C	Storage temperature range	−10℃ to 50℃ (packed condition)
	Voltage	30 V AC / DC	Operating or storage humidity range	Relative humidity 90% MAX (not dewed)
	Current	0.20 A	Applicable cable	t=0.12±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 (1KHz), 1 mA.	200 mΩ MAX. Including FPC 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. ③ No damage, crack and looseness of parts.	×	—
Shock	981 m/s^2, duration of pulse 6 ms at 3 times in 3 both axial directions.		×	—
Mechanical operation	10 times 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=0.12mm at initial condition)	Direction of insertion: 2.95 N MIN (***note 3***)	×	—
ENVIRONMENTAL CHARACTERISTICS				
Corrosion salt mist	Exposed at 35±2°C, 5% salt water spray for 96 h.	Contact resistance: 200 mΩ MAX.	×	—
Rapid change of temperature	Temperature -55→+15 to +35→+85→+15 to +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.	Contact resistance: 200 mΩ MAX.	×	—
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
⚠0					

REMARK

Unless otherwise specified, refer to IEC 60512.

APPROVED	NF.MIYAZAKI	16.11.14
CHECKED	YH.MICHIDA	16.11.11
DESIGNED	HY.YAMAZAKI	16.11.11
DRAWN	KY.KIKUCHI	16.11.11

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

DRAWING NO. ELC-371819-00-00

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. FH64MA-15S-0.25SHW

CODE NO. CL580-4608-0-00 ⚠0

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. Number of allowed reflow cycles 2 times. 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 is a top contact point connector with back flip lock system.

(*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.

There is a case which the FPC retention force doesn't fullfill the specification depending on the FPC specification.

(*note4*)

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