



**THE DATASHEET OF  
FH58-35S-0.2SHW**



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	0.20A	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	90V AC for 1 min.		No flashover or breakdown.	×	×
Insulation resistance	100V DC.		50MΩ MIN.	×	×
Contact resistance	20mV AC MAX, 1mA.		300mΩ 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 1μs. ② Contact resistance: 300mΩ MAX. ③ No damage, crack and loose parts.	×	—
Shock	981 m/s <sup>2</sup> , duration of pulse 6 ms at 3 times in 3 both axial directions.			×	—
Mechanical operation	10 times insertions and extractions.		① Contact resistance: 300mΩ MAX. ② No damage, crack and loose parts.	×	—
FPC retention force	Measured by applicable FPC. (thickness of FPC shall be t=0.20mm at initial ondition)		Direction of insertion: (0.14 × n)+1N MIN(note 3) (n: Number of contacts)	×	—
ENVIRONMENTAL CHARACTERISTICS					
Corrosion salt mist	Exposed at 35±2°C, 5% salt water spray for 96h.		① Contact resistance: 300mΩ MAX. ② No damage, crack and loose parts. ③ No evidence of corrosion which affects connector's operation.	×	—
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: 300mΩ MAX. ② Insulation resistance: 50MΩ MIN. ③ No damage, crack and loose parts.	×	—
Damp heat (steady state)	Exposed at 40±2°C, relative humidity 90 to 95%, 96h.			×	—
Damp heat, cyclic	Exposed at -10 to +65°C, relative humidity 90 to 96%, 10 cycles, total 240h.		① Contact resistance: 300mΩ MAX. ② Insulation resistance: 1MΩ MIN. (at high humidity) ③ Insulation resistance: 50MΩ MIN. (at dry) ④ No damage, crack and loose parts.	×	—
Dry heat	Exposed at 85±2°C, 96h.		① Contact resistance: 300mΩ MAX. ② No damage, crack and loose parts.	×	—
Cold	Exposed at -55±3°C, 96h.			×	—
Sulphur dioxide [JIS C 60068-2-42]	Exposed at 40±2°C, relative humidity 80±5%, 25±5ppm for 96h.		① Contact resistance: 300mΩ MAX. ② No damage, crack and loose parts. ③ No evidence of corrosion which affects connector's operation.	×	—
Hydrogen sulphide [JIS C 60068-2-43]	Exposed at 40±2°C, relative humidity 80±5%, 10 to 15ppm for 96h.			×	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△					
REMARK			APPROVED	NF. MIYAZAKI	16.06.07
			CHECKED	YH. MICHIDA	16.06.07
			DESIGNED	SI. MIZUSAWA	16.06.07
Unless otherwise specified, refer to IEC 60512.			DRAWN	OTNIEL RINALDO	16.06.06
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-370587-00-00	
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	FH58-**S-0. 2SHW	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL580	△ 1/2

Jul.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.

SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
Solderability	Soldered at solder temperature $245 \pm 3^{\circ}\text{C}$ , for immersion duration $3 \pm 0.3$ 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. $250^{\circ}\text{C}$ MAX. reflow tmp. over $230^{\circ}\text{C}$ within 60 sec. 2) Soldering irons: tmp. $350 \pm 10^{\circ}\text{C}$ for $5 \pm 1$ sec.	No case-deformation and loose contacts. <b>(note 4)</b>	X	—	
<p><b>(note1)</b> This connector is back flip lock type, and top/bottom both contact points are available.</p> <p><b>(note2)</b> 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.</p> <p><b>(note3)</b> If pull-up or pull-down force is expected to be applied to the FPC, stabilize the FPC into PCB or other fixed components.</p> <p><b>(note4)</b> 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-370587-00-00
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	FH58-**S-0. 2SHW	
	HIROSE ELECTRIC CO., LTD.		CODE NO	CL580	△ 2/2

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ [View FH58-35S-0.2SHW on WIN SOURCE](#)
- ⊖ [Hirose Electric Co Ltd Information](#)

## Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management