APPLICA	BLE STAN	IDARD										
	Operating temperature range Voltage Current		-55°C to 85°C	2	Storage temperature range		range	-	-10°C TO 50°C (packed condit			
RATING					-	aroting or storage		Re	Relative humidity 90%MAX(no		ot dewed)	
						licable cable $t=0.2\pm0.02$ mm, gold pla				plating)	
			SPEC	IFICA		NS						
	ТЕМ		TEST METHOD				R	FQU	IREMENTS	QT	AT	
	RUCTION										1	
General examination		Visually and by measuring instrument.				According to drawing. (<i>note 1,2</i>)				×	×	
Marking		Confirmed visually.			×					×		
ELECTR	ICAL CHA	RACTE	RISTICS								1	
Voltage proc	of	90V AC f	or 1 min.			No flas	hover or	breał	down.	×	×	
Insulation resistance		100V DC.			50MΩ MIN.				×	×		
Contact resistance		20mV AC MAX, 1mA.			$300m\Omega$ MAX. Including FPC bulk resistance (L=8mm)				×	×		
MECHAN	NICAL CH	ARACTE	RISTICS									
Vibration			y 10 to 55 Hz, half amplitud	le 0.75 mr	n,	1) No	electrical	disco	ontinuity of 1us	×	-	
		for 10 cycles in 3 axial directions.			 No electrical discontinuity of 1μs. Contact resistance: 300mΩ MAX. No damage, crack and loose 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.			 Contact resistance: 300mΩ MAX. No damage, crack and loose parts. 				×	-		
FPC retention force		Measured by applicable FPC. (thickness of FPC shall be t=0.20mm at initial condition)			Direction of insertion: 12.34N MIN(<i>note 3</i>)				×	-		
ENVIRO	NMENTAL	. CHAR/	ACTERISTICS			-					1	
Corrosion salt mist		Exposed at $35\pm2^{\circ}$ C, 5% salt water spray for 96h.			 Contact resistance: 300mΩ MAX. No damage, crack and loose parts. No evidence of corrosion which affects connector's operation. 			s	-			
Rapid change of temperature		Temperature-55 \rightarrow +15TO+35 \rightarrow +85 \rightarrow +15TO+35°CTime30 \rightarrow 2TO 3 \rightarrow 30 \rightarrow 2TO 3 minUnder 5 cycles.			 Contact resistance: 300mΩ MAX. Insulation resistance: 50MΩ MIN. 				×	-		
Damp heat (steady state)		Exposed at 40±2°C, relative humidity 90 to 95%, 96h.			 No damage, crack and loose parts. 				×	-		
Damp heat,cyclic		Exposed at -10 to +65°C, relative humidity 90 to 96%, 10 cycles, total 240h.			 Contact resistance: 300mΩ MAX. Insulation resistance: 1MΩ MIN. (at high humidity) Insulation resistance: 50MΩ MIN. (at dry) No damage, crack and loose parts. 				×	-		
Dry heat		Exposed	Exposed at 85±2°C, 96h.			(1) Contact resistance: $300m\Omega$ MAX.				×	-	
Cold			Exposed at -55±3°C, 96h.			 No damage, crack and loose parts. 				×	1 -	
Sulphur dioxide [JIS C 60068-2-42]		relative h 25±5pp	Exposed at 40±2°C, elative humidity 80±5%, 25±5ppm for 96h.			 Contact resistance: 300mΩ MAX. No damage, crack and loose parts. 				×	-	
IJIS C 60068-2-431		relative h	Exposed at 40±2°C, elative humidity 80±5%, 10 to 15ppm for 96h.			③ No evidence of corrosion which affects connector's operation.			s x			
COUN	IT D	ESCRIPTIC	ON OF REVISIONS		DESIG	NED			CHECKED	DA	λΤΕ	
							400000					
REMARK						APPROVE					2090	
			ified refer to IEC 60512			CHECKED DESIGNED			HY. YAMAZAKI	2022		
	honulos er -	oified							ST. YUDATE			
Unless otherwise specified, refer to IEC 60512.				DRAWN ST. YUDATE								
								ELC-391816-0		U		
HRS		SPECIFICATION SHEET IROSE ELECTRIC CO., LTD.				PART NO.			FH58SA-81S-0. 2SHW		1 /	
				CODE	$J \in \mathbb{NO}$. ULU		000	580-3825-0-00		1/2		

FORM HD0011-2-1

SPECIFICATIONS								
ITEM	TEST METHOD	REQUIREMENTS	QT	AT				
Solderability	Soldered at solder temperature $245\pm3^{\circ}$ 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	 Reflow soldering: peak tmp. 250°C MAX. reflow tmp. over 230°C within 60 sec. Soldering irons: tmp. 350±10°C for 5±1 sec. 	No case-deformation and loose contacts. (<i>note 4</i>)	×					

(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)

If pull-up or pull-down force is expected to be applied to the FPC, stabilize the FPC into PCB or other fixed components.

There's a case which FPC retention force doesn't fulfill the value,

because FPC specification affects the results of FPC retention force.

(note4)

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

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	NG NO.	ELC-391816-00-00		
HRS	SPECIFICATION SHEET	PART NO.	FH58SA-81S-0.2SHW			
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL058	0-3825-0-00	Δ	2/2