APPLICA	BLE STAN	DARD									
	Operating temperature range  Voltage  Current		-55°C to 85°C			perature range		-	-10°C TO 50°C (packed condi		
RATING			30V AC/DC		-	Operating or storage humidity range		Re	elative humidity 90% MAX (r	not de	ewed)
			0.20A Appli			cable ca	able		$t=0.2\pm0.02$ mm, gold p	ating	ı
			SPEC	IFICA	OITA	NS					
TI	EM		TEST METHOD				R	EQU	IREMENTS	QT	АТ
CONSTR	UCTION										
General examination		Visually a	and by measuring instrumen	ıt.		According to drawing.				×	×
		Confirmed visually.			(note 1,2)			×	×		
	ICAL CHA	RACTE	RISTICS			1					
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)				×	×	
MECHAN	IICAL CHA										
Vibration		for 10 cyc	Frequency 10 to 55 Hz, half amplitude 0.75 mm, for 10 cycles in 3 axial directions.			① No electrical discontinuity of 1μs.				×	_
Shock			981 m/s <sup>2</sup> , duration of pulse 6 ms at 3 times in 3 both axial directions.			② Contact resistance: 300mΩ MAX. ③ No damage, crack and loose parts.			×		
Mechanical o	operation	10 times	10 times insertions and extractions.			<ol> <li>Contact resistance: 300mΩ MAX.</li> <li>No damage, crack and loose parts.</li> </ol>			×	_	
			Measured by applicable FPC. (thickness of FPC shall be t=0.20mm at initial ondition)			Direction of insertion: (0.14 × n)+1N MIN( <i>note 3</i> ) (n: Number of contacts)			×		
ENVIRO	NMENTAL	CHARA	ACTERISTICS								
Corrosion salt mist		Exposed at 35±2°C, 5% salt water spray for 96h.			<ol> <li>Contact resistance: 300mΩ MAX.</li> <li>No damage, crack and loose parts.</li> <li>No evidence of corrosion which affects connector's operation.</li> </ol>			×	_		
temperature		Temperature-55 $\rightarrow$ +15 <sub>TO</sub> +35 $\rightarrow$ +85 $\rightarrow$ +15 <sub>TO</sub> +35°C Time 30 $\rightarrow$ 2 TO 3 $\rightarrow$ 30 $\rightarrow$ 2 TO 3 min Under 5 cycles.			① Contact resistance: $300mΩ$ MAX. ② Insulation resistance: $50MΩ$ MIN.			×	_		
Damp heat (steady state	e)	Exposed at 40±2°C, relative humidity 90 to 95%, 96h.			③ No	damage, (	crack	and loose parts.	×	_	
Damp heat,cyclic		Exposed at -10 to +65°C, relative humidity 90 to 96%, 10 cycles, total 240h.			<ol> <li>Contact resistance: 300mΩ MAX.</li> <li>Insulation resistance: 1MΩ MIN.         <ul> <li>(at high humidity)</li> </ul> </li> <li>Insulation resistance: 50MΩ MIN.         <ul> <li>(at dry)</li> </ul> </li> <li>No damage, crack and loose parts.</li> </ol>			×	I		
Dry heat		Exposed	xposed at 85±2°C, 96h.			① Contact resistance: 300mΩ MAX.				×	_
Cold		Exposed	posed at -55±3°C, 96h.			② No damage, crack and loose parts.				×	_
Sulphur dioxide [JIS C 60068-2-42]		relative h	ed at 40±2°C, humidity 80±5%, opm for 96h.			① Contact resistance: 300mΩ MAX. ② No damage, crack and loose parts.			×	_	
I-lydrogen sulpnide I-lis C 60068-2-431		relative h	d at 40±2°C, humidity 80±5%, ppm for 96h.			③ No evidence of corrosion which affects connector's operation.			×	_	
COUN	T DE	SCRIPTIO	ON OF REVISIONS		DESIG	NED			CHECKED	DATE	
CHECKED YH. MICHIDA 1 DESIGNED SI. MIZUSAWA 1					16. 06. 07 16. 06. 07 16. 06. 07 16. 06. 06						
Unless otherwise specified, re						DRAWN OTNIEL RINALDO					
								ELC-370587-00 FH58-**S-0. 2SHW	)-((	)	
<b>KS</b>		SPECIFICATION SHEET HIROSE ELECTRIC CO., LTI							Δ	1/2	
ENDM HD0011_2_1		CODE			. INC. ULUOU		J_000		.,_		

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	<ol> <li>Reflow soldering:     peak tmp. 250°C MAX.     reflow tmp. over 230°C within 60 sec.</li> <li>Soldering irons:     tmp. 350±10°C for 5±1 sec.</li> </ol>	No case-deformation and loose contacts. (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)

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

## (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-370587-00-00			
HRS	SPECIFICATION SHEET	PART NO.	FH58-**S-0. 2SHW				
1	HIROSE ELECTRIC CO., LTD.	CODE NO		CL580	Δ	2/2	