	BLE STAN Operating			<u> </u>	Storage			4000 TO 5000			
	temperature range		-55°C to 85°C			ure range		10°C TO 50°C (packed			
RATING			$3UV/\Delta U/UU$		Operating	g or storage range	R	Relative humidity 90% MAX (n		not dewed	
	Current		0.20A Appli			licable cable t=0.2±0.02mm, gold pla				)	
			SPEC	IFICAT	IONS	5					
TI	EM		TEST METHOD			I	REQU	IREMENTS	QT	A	
CONSTR	RUCTION										
General examination		Visually and by measuring instrument.			Aco	According to drawing. ( <i>note 1,2</i> )			×	>	
Marking		Confirmed visually.			( <i>nc</i>				×	;	
ELECTR	ICAL CHA	ARACTEF	RISTICS								
Voltage proof		90V AC for 1 min.			No	No flashover or breakdown.				>	
Insulation resistance		100V DC.			50	50MΩ MIN.				>	
Contact resistance		20mV AC MAX, 1mA.				300mΩ MAX. Including FPC, FFC bulk resistance (L=8mm)			×	>	
MECHAN	ICAL CH	ARACTE	RISTICS								
Vibration			Frequency 10 to 55 Hz, half amplitude 0.75 mm,			1 No electrical discontinuity of 1µs.			×	-	
			for 10 cycles in 3 axial directions.			() No electrical discontinuity of TµS. (2) Contact resistance: $300m\Omega$ MAX.				+	
Shock			981 m/s <sup>2</sup> , duration of pulse 6 ms at 3 times in 3 both axial directions.			-		and loose parts.	×		
Mechanical	operation	10 times ir	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: $(0.14 \times n)+1N MIN(note 3)$ (n: Number of contacts)			×	-	
ENVIRO	NMENTAL	CHARA	CTERISTICS					,	1	-	
Corrosion salt mist		Exposed at $35\pm2^{\circ}$ C, 5% salt water spray for 96h.			n. (2) (3)	<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>			×	-	
Rapid change of temperature		Temperature-55 $\rightarrow$ +15TO+35 $\rightarrow$ +85 $\rightarrow$ +15TO+35°C Time 30 $\rightarrow$ 2TO 3 $\rightarrow$ 30 $\rightarrow$ 2TO 3 min Under 5 cycles.			5°C min ①	<ol> <li>Contact resistance: 300mΩ MAX.</li> <li>Insulation resistance: 50MΩ MIN.</li> </ol>			×	-	
Damp heat (steady state)		Exposed at 40±2°C, relative humidity 90 to 95%, 96h.			~	<ol> <li>No damage, crack and loose parts.</li> </ol>			×	-	
Damp heat,cyclic		Exposed at -10 to +65°C, relative humidity 90 to 96%, 10 cycles, total 240h.			2 3	<ol> <li>Contact resistance: 300mΩ MAX.</li> <li>Insulation resistance: 1MΩ MIN. (at high humidity)</li> <li>Insulation resistance: 50MΩ MIN. (at dry)</li> <li>No damage, crack and loose parts.</li> </ol>			×	-	
Dry heat		Exposed a	Exposed at 85±2°C, 96h.			$ (1) Contact resistance: 300m\Omega MAX. $				L-	
Cold			at -55±3°C, 96h.		2	No damage	, cracl	k and loose parts.	×	-	
[JIS C 60068-2-42] [JIS C 60068-2-42] [JIS C 60068-2-42] [JIS C 60068-2-43] [JIS C 60068-20		relative hu 25±5ppm Exposed a relative hu	l at $40\pm2^{\circ}$ C, numidity $80\pm5\%$ , m for 96h. l at $40\pm2^{\circ}$ C, numidity $80\pm5\%$ , opm 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>			×	-	
COUNT DESCRIPTION OF REVISIONS		D	ESIGNE	SIGNED		CHECKED	DATE				
						·					
REMARK						APPRO			16.0		
				CHECKE				)6. (			
							SI. MIZUSAWA	16.0			
Unless otherwise specified, refer to IEC 60512.				DRAWN OTNIEL RINALDO		16.0					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			est	DRAV	RAWING NO.		ELC-370587-00		)		
<b>RS</b> SPECIFICATION SHEET				PART NC	).	FH58-**S-0. 2SHW			1		
HIROS		ROSE EL	ECTRIC CO., LTD.	С	ODE NO	).		CL580	$\Delta$	1/	

FORM HD0011-2-1

	SPECIFICA	FIONS		
ITEM TEST METHOD REQUIREMENTS		REQUIREMENTS	QT	AT
Solderability	Soldered at solder temperature $245\pm3^{\circ}$ C, for immersion duration $3\pm0.3$ 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. ( <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 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	DRAWING NO.		ELC-370587-00-00		
HRS	SPECIFICATION SHEET	PART NO.	FH58-**S-0. 2SHW			
	HIROSE ELECTRIC CO., LTD.	CODE NO		CL580	$\Delta$	2/2