APPLICA	BLE STAN	NDARD									
	Operating temperature range		-55°C to 85°C			age erature range		-10°C TO 50°C (packed conditi			ition)
RATING	Voltage		30V AC/DC			ating or dity ran	storage ge	Re	Relative humidity 90%MAX(n		ewed
	Current		0.20A		Appli	cable ca	able		t=0.2±0.02mm, gold p	lating	J
	1	•	SPEC	IFICA	101T	NS					
IT	EM		TEST METHOD				RE	QUI	REMENTS	QT	АТ
CONSTR	UCTION	L				1					
General examination		Visually a	Visually and by measuring instrument.			According to drawing.			×	×	
Marking		Confirme	Confirmed visually.			(note 1,2)			×	×	
ELECTR	ICAL CHA	RACTE	RISTICS			•					
Voltage proo	f	90V AC f	or 1 min.			No flas	hover or br	reak	down.	×	×
Insulation resistance		100V DC	100V DC.			50MΩ MIN.				×	×
Contact resistance		20mV AC MAX, 1mA.			300mΩ MAX. Including FPC, FFC bulk resistance (L=8mm)			×	×		
MECHAN	IICAL CH	ARACTE	RISTICS				<u> </u>		,	I	-
Vibration		Frequenc	y 10 to 55 Hz, half amplitud	le 0.75 mm	,	① NI-	olootric = l -l	ioss	entingity of 4a	×	l —
vibialiUN			cles in 3 axial directions.			① No electrical discontinuity of 1μs. ② Contact resistance: 300mΩ MAX.					
Shock			duration of pulse 6 ms at 3 axial directions.	s times		(2) Contact resistance: 300m\( \Omega\) MAX.  (3) No damage, crack and loose parts.			×	-	
Mechanical 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: 10.94N MIN( <i>note 3</i> )			×	-	
ENVIRO	NMENTAL		ACTERISTICS			1				l	
Corrosion salt mist Exp		Exposed	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		Time	Temperature-55 $\rightarrow$ +15 <sub>TO</sub> +35 $\rightarrow$ +85 $\rightarrow$ +15 <sub>TO</sub> +35°C Time 30 $\rightarrow$ 2 <sub>TO</sub> 3 $\rightarrow$ 30 $\rightarrow$ 2 <sub>TO</sub> 3 min Under 5 cycles.			① Contact resistance: 300mΩ MAX. ② Insulation resistance: 50MΩ MIN.			×	-	
Damp heat (steady state)		Exposed	Exposed at 40±2°C, relative humidity 90 to 95%, 96h.			③ No damage, crack and loose parts.				×	-
Damp heat,cyclic		Exposed relative h	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>			×	_	
Dry heat		Exposed	posed at 85±2°C, 96h.			① Contact resistance: 300mΩ MAX.				×	T _
Cold			sed at -55±3°C, 96h.			No damage, crack and loose parts.				×	_
Sulphur dioxide [JIS C 60068-2-42] Hydrogen sulphide		relative h 25±5ppr Exposed	l at 40±2°C, numidity 80±5%, m for 96h. l at 40±2°C,			<ol> <li>Contact resistance: 300mΩ MAX.</li> <li>No damage, crack and loose parts.</li> <li>No evidence of corrosion which affects</li> </ol>			×	_	
[JIS C 60068-2-43]			ve humidity 80±5%, 15ppm for 96h.			connector's operation.			tion.		
COUN	T D	ESCRIPTION	ON OF REVISIONS		DESIG	NED			CHECKED	DA	TE
ZX REMARK							APPROVE	-DI	HS. HIRAHARA	2021	122
							CHECKE	-	HY. YAMAZAKI		1222
						DESIGNE			ST. YUDATE	202112	
Unless otherwise specified,			refer to IEC 60512.			DRAWN		-			1220
				- Ast	D.	) A \ A / I B I			ELC-392900-99		
						RAWING NO.   ELC-392900-9 FNO.   FH58SA-71S-0. 2SHW (9				,	
$\Pi \cup \Pi$			ECTRIC CO., LTD.	SITELI							1/2
ORM HD0011-	1	.001 11			CODE	INU.	ULU	JUI	7 0020 0 33	Δ	1/2

SPECIFICATIONS								
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ				
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 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	Qualification Test AT:Assurance Test X:Applicable Test	DRAWIN	NG NO.	ELC-392900-99-00			
HR	SPECIFICATION SHEET		PART NO. FH58SA-71S-0. 2SHW (99				
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL058	0-3826-0-99	Δ	2/2	