APPLICABLE STAN Operating			Stor								
	Operating temperature range Voltage		-55°C to 85°C	;		erature	0	-1	0°C TO 50°C (packed	cond	ition
RATING			30V AC/DC			ating or dity ran	ge Relative humidity 90%		lative humidity 90%MAX(x(not dewed	
	Current		0.20A		Appli	licable cable t=0.2±0.02mm, gold pla				lating	9
			SPEC	IFIC	ATIO	NS					
ΓI	ГЕМ		TEST METHOD				RE	QUI	REMENTS	QT	A
CONSTR	RUCTION					1					
General exa	mination	Visually a	and by measuring instrumen	t.		Accord	ling to draw	ving.		×	×
Marking		Confirme	d visually.			(note 1,2)				×	×
ELECTR	ICAL CHA	RACTE	RISTICS			1					
Voltage proc		90V AC f				No flas	shover or bi	reak	down.	×	×
Insulation resistance		100V DC.				50MΩ MIN.				×	×
		20m\/ AC				300mΩ MAX.				×	×
Contact resistance		20mV AC MAX, 1mA.			Including FPC, FFC bulk resistance (L=8mm)						
MECHAN	NICAL CH					1					
Vibration			y 10 to 55 Hz, half amplitud	e 0.75 n	nm,	① No	electrical d	isco	ntinuity of 1µs.	×	-
			for 10 cycles in 3 axial directions. 981 m/s ² , duration of pulse 6 ms at 3 times				(2) Contact resistance: $300m\Omega$ MAX.				-
Shock			in 3 both axial directions.				③ No damage, crack and loose parts.				
Mechanical	operation	10 times	insertions and extractions.			~			: 300mΩ MAX.	×	-
Mechanical operation FPC retention force						② No damage, crack and loose parts.			×		
			Measured by applicable FPC. (thickness of FPC shall be t=0.20mm at initial ondition)				Direction of insertion: $(0.14 \times n)+1N \text{ MIN}(note 3)$ (n: Number of contacts)				-
FNVIRO	NMENTAI		ACTERISTICS		indition)	(11. 140		nuor	5)		
						① Cor	ntact resista	ance	: 300mΩ MAX.	×	Τ_
Corrosion salt mist		Exposed	Exposed at $35\pm2^{\circ}$ C, 5% salt water spray for 96h.			$\overset{\circ}{(2)}$ No damage, crack and loose parts.					
0011031011 32	ait mist	Lxposed				③ No evidence of corrosion which affects connector's operation.					
		Tomporo		5	0.12E°C	con	nector's op	erati	on.		
Rapid chang		Time	Temperature-55 \rightarrow +15TO+35 \rightarrow +85 \rightarrow +15TO+35°C Time 30 \rightarrow 2 TO 3 \rightarrow 30 \rightarrow 2 TO 3 min			(1) Contact resistance: $300m\Omega$ MAX.				×	-
temperature		-	Under 5 cycles.			$②$ Insulation resistance: 50M Ω MIN.					
Damp heat		Exposed at $40\pm2°C$,			③ No damage, crack and loose parts.				×	-	
(steady state	e)	relative h	umidity 90 to 95%, 96h.				toot rooiot	0000	: 300mΩ MAX.	~	-
						~			ce: 1MΩ MIN.	×	
Damp heat (ovelie	•	Exposed at -10 to +65°C, relative humidity 90 to 96%,			(at high humidity)					
Bump nout,e	Damp heat,cyclic		10 cycles, total 240h.			3 Insulation resistance: 50M Ω MIN.					
					(at dry) ④ No damage, crack and loose parts.						
Dry heat		Exposed	Exposed at 85±2°C, 96h.			(1) Contact resistance: $300m\Omega$ MAX.				×	-
Cold			Exposed at $-55\pm3^{\circ}$ C, 96h.			 ② No damage, crack and loose parts. 				×	+-
			at $40\pm2^{\circ}C$,				0-, 0			×	
Sulphur dioxide [JIS C 60068-2-42] Hydrogen sulphide [JIS C 60068-2-43]			relative humidity 80±5%, 25±5ppm for 96h. Exposed at 40±2°C, relative humidity 80±5%, 10 to 15ppm for 96h.			 Contact resistance: 300mΩ MAX. No damage, crack and loose parts. 					
						③ No evidence of corrosion which affects connector's operation.			×	-	
									allon.		
		ESCRIPTION OF REVISIONS DESIG					CHECKED		DA	\TE	
Λ											
REMARK							APPROVI	ED	NF. MIYAZAKI	16.0	06. 0
							CHECKE	D	YH. MICHIDA	16.0	06. 0
						DESIGN		Ð	SI.MIZUSAWA	16.06.	
Unless oth	nerwise spe	ecified, re	cified, refer to IEC 60512.			DRAWN OTNIEL RINALDO			OTNIEL RINALDO	16.0	06.0
Note QT:Qualification Test AT:Assurance Test									ELC-370587-99		
						т NO. FH58-**S-0. 2SHW (99					
RS						01.500				1/2	
FORM HD0011-2-1		NOSE EL	OSE ELECTRIC CO., LTD. CODE			- NO. 6L060			Δ	I / ∠	

SPECIFICATIONS							
ITEM	TEST METHOD	REQUIREMENTS	QT	A			
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 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	IG NO.	ELC-370587-99-00		
HRS	RS SPECIFICATION SHEET		FH58-**S-0. 2SHW (99)			
	HIROSE ELECTRIC CO., LTD.	CODE NO		CL580	Δ	2/2