APPLICA	BLE STANI	DARD									
Operating temp		perature	erature -55 °C to 85 °C			•	perature	-1	0°C TO 50°C(packe	d cond	dition)
RATING	range Voltage		30V AC/I			ating or	storage		ative humidity 90 % MAX		
						dity rang			•		
	Current		0.20 A	015:0		icable cable t=0.12±0.02mm, gold p				l platin	ıg
		ı	SPE	CIFIC	41101	NS.				1	
	EM		TEST METHOD)			RE	QUIF	REMENTS	QT	AT
CONSTR		lv <i>e</i> u								1	
General exan Marking	nination	_	and by measuring instrum d visually.	ent.		According to drawing. (note 1,2)				×	×
·						`				×	×
Voltage proof	CAL CHAF					No flas	hover or br	reako	Hown	×	T
Insulation res					No flashover or breakdown. 50 MΩ MIN.				×	×	
		A C 20 \	/ NAA V								
Contact resistance		,			300 mΩ MAX.				×	×	
	IICAL CHA	DACTE	DICTICS			includir	ng tpc,ffc b	ulk r	esistance (L=8mm)		
Vibration			cy 10 to 55 Hz, half amplit	ude		① No	electrical d	lisco	ntinuity of 1 us.	×	Τ_
		0.75 mm, for 10 cycles in 3 axial directions.				 No electrical discontinuity of 1 μs. Contact resistance: 300 mΩ MAX. 				^	
Shock			, duration of pulse 6 ms			No damage, crack and looseness of parts.				×	_
Mechanical o	peration	at 3 times in 3 both axial directions. 10times insertions and extractions.				① Contact resistance: 300 mΩ MAX.				×	+-
									and looseness of parts.		
Fpc retention	force		Measured by applicable fpc. (thickness of fpc shall be t=0.12mm at initial ondition.)				Direction of insertion: 5.6 N MIN (note 3)				-
ENVIRON	MENTAL		ACTERISTICS	ii at iiittai c	martion.)	<u> </u>					
Corrosion sal		Exposed at 35±2 °C, 5 % salt water spray for 96 h.			or 96 h.	① Contact resistance: 300 mΩ MAX.			×	—	
						② No damage, crack and looseness of parts.					
							evidence o ration of co		rosion which affects to		
Rapid change	e of	Tempera	ture-55→+15⊤o+35→+85	5→+15TO+3	35°C				: 300 mΩ MAX.	×	+ -
temperature		Time $30 \rightarrow 2 \text{ TO } 3 \rightarrow 30 \rightarrow 2 \text{ TO } 3 \text{ min}$			② Insulation resistance: 50 MΩ MIN.						
Damp heat		Under 5 cycles. Exposed at 40±2 °C,			(3) No	damage, cı	rack	and looseness of parts.	×		
(steady state))		humidity 90 to 95 %, 96 h							^	
Damp heat,cy	yclic	Exposed at -10 to +65 °C,			① Contact resistance: 300 mΩ MAX.				×	_	
		Relative humidity 90 to 96 %, 10 cycles, total 240 h.			 Insulation resistance: 1 MΩ MIN. (at high humidity) Insulation resistance: 50 MΩ MIN. 						
					(at dry) (A) No damage, grack and legeoness of parts						
Dry heat	Dry heat		ed at 85±2 °C, 96 h.			④ No damage, crack and looseness of parts. ① Contact resistance: 300 mΩ MAX.				×	+
•			sed at -55±3°C, 96 h.			② No damage, crack and looseness of parts.					+-
Sulphur dioxide		Exposed	osed at 40±2 °C,			① Contact resistance: 300 mΩ MAX.				×	†-
		Relative	ative humidity 80±5%			② No damage, crack and looseness of parts.					
Hydrogen sulphide [JIS C 60068-2-43]			25±5 ppm for 96 h. Exposed at 40±2 °C, Relative humidity 80±5%,			No evidence of corrosion which affects to operation of connector.					
										×	-
			ppm for 96 h.								
COUNT	T DE	SCRIPTIO	ON OF REVISIONS		DESIG	NED			CHECKED	DA	ATE
Δ											
REMARK							APPROVE	-	NF.MIYAZAKI		01. 27
							CHECKE	-	YH. MICHIDA	1	01. 27
Uniono othomujos sessitis		ا مالات	nd refer to IEC 60512			DESIGNE			SI. MIZUSAWA		01. 27
Unless otherwise specified,							DRAWN	١	OTNIEL RINALDO		01. 27
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DF	DRAWING NO.		ELC-336359-99			U		
Note QT:Qu	ualification Tes	ot AT.AS									
HS			CATION SHEET		PART		F	-H5	3-41S-0. 2SHW(9	9)	

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	1) Reflow soldering: peak tmp. 250 °C MAX. reflow tmp. over 230 °C within 60 sec. 2) Soldering irons: tmp. 350±10 °C for 5±1 sec.	No deformation of case of excessive looseness of the terminals. (<i>note 4</i>)	×	-			

(note1)

This is a top contact point connector with back flip lock system.

(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)

Stabilize the fpc to pcb or something fixed, if pull-up or pull-down force is expected to be applied to the fpc.

(note4)

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

Note C	Note QT:Qualification Test AT:Assurance Test X:Applicable Test			IG NO.	ELC-336359-99-00		
H	7	SPECIFICATION SHEET	PART NO.	FH53-41S-0. 2SHW (99)			
1.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL580	-3401-7-99	Δ	2/2	