APPLIC <sub>A</sub>	BLE STAN	IDARD										
	OPERATING TEMPERATUR	RE RANGE	-55 °C TO +85 °C			STORAGE TEMPERATURE		-	-10°CTO+50°C(PACKED CX			
RATING	VOLTAGE		50 V AC / DC		_		ATING OR STORAGE ITY RANGE		RELATIVE HUMIDITY 90 % MAX (N		NOT DEWED)	
	CURRENT		0.5 A (note 1)		APPLIC	CABLE C	ABLE		t=0.3±0.03mm, GOLD F	PLATI	NG	
	•	•	SPEC	IFIC	ATIO	NS						
I	ГЕМ		TEST METHOD				RE	QU	IREMENTS	QT	A <sup>·</sup>	
CONSTR	RUCTION	1								1		
	EXAMINATION		ALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			×	×		
MARKING			CONFIRMED VISUALLY.						×	>		
	ICAL CHA					T				1		
VOLTAGE F			FOR 1 min.					R OF	R BREAKDOWN.	×	×	
INSULATIO RESISTANO		100 V DC.			500 MΩ MIN.			×	×			
		AC 20 mV	AC 20 mV MAX ( 1 KHz ) , 1 mA .				Ω MAX.			×	×	
						INCLUDING FPC BULK RESISTANCE (L=8 mm)						
MECHAN	VICAL CH	ARACTE	RISTICS			1(= 0 ::	,				<u> </u>	
VIBRATION		FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm, FOR 10 CYCLES IN 3 AXIAL DIRECTIONS.				① NO ELECTRICAL DISCONTINUITY OF 1 $\mu s$ . ② CONTACT RESISTANCE: 100 $m\Omega$ MAX.			×	_		
SHOCK		981 m/s <sup>2</sup>	981 m/s <sup>2</sup> , DURATION OF PULSE 6 ms AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS.				③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			×	†-	
MECHANIC OPERATIO		20 TIMES INSERTIONS AND EXTRACTIONS.			<ol> <li>CONTACT RESISTANCE: 100 mΩ MAX.</li> <li>NO DAMAGE, CRACK OR LOOSENESS OF PARTS.</li> </ol>			×	-			
		MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.30 mm AT INITIAL CONDITION.)			DIRECTION OF INSERTION: 0.15 × n N MIN. (n: NUMBER OF CONTACTS) (note 2)			×	-			
ENVIRO	NMENTAL		CTERISTICS			<b>\</b>	,			ı	1	
CORROSIO	N SALT MIST	EXPOSED AT 35±2 °C, 5 % SALT WATER SPRAY FOR 96 h.			<ol> <li>CONTACT RESISTANCE: 100 mΩ MAX.</li> <li>NO DAMAGE, CRACK OR LOOSENESS OF PARTS.</li> <li>NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.</li> </ol>			×	_			
RAPID CHA TEMPERAT		TEMPERATURE-55 $\rightarrow$ +15TO+35 $\rightarrow$ +85 $\rightarrow$ +15TO+35 $^{\circ}$ C TIME 30 $\rightarrow$ 2 TO 3 $\rightarrow$ 30 $\rightarrow$ 2 TO 3 min UNDER 5 CYCLES.			① CONTACT RESISTANCE: $100 \text{ m}\Omega$ MAX. ② INSULATION RESISTANCE: $50 \text{ M}\Omega$ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS			×	-			
DAMP HEA			EXPOSED AT 40±2 °C,				PARTS.	., Сг	ANDIX OIX LOUGENESS	×	-	
(STEADY S		RELATIVE HUMIDITY 90 TO 95%, 96 h.										
DAMP HEAT, CYCLIC		EXPOSED AT -10 TO +65 °C, RELATIVE HUMIDITY 90 TO 96 %, 10 CYCLES, TOTAL 240 h.			<ol> <li>CONTACT RESISTANCE: 100 mΩ MAX.</li> <li>INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY)</li> <li>INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY)</li> <li>NO DAMAGE, CRACK OR LOOSENESS OF PARTS.</li> </ol>			×				
COUN	IT D	ESCRIPTIO	N OF REVISIONS		DESIG	SNED			CHECKED	DA	TE	
<b>⚠</b>					_	_		-			_	
REMARK						APPROVED		ΈD	HS. HIRAHARA	2022	2032	
						CHECKED			HS. HIRAHARA	2022		
			IIS C E402 and IEC 20542			DESIGNED					2032	
			S C 5402 and IEC 60512.				DRAWI	N	TS. HONJO	2022		
Note QT:C	ualification Te	cation Test AT:Assurance Test X:Applicable Test DI				RAWING NO. ELC-341536-00			U-0(	)		
HS SPEC		PECIFIC	10/11/OH OHEET		PART	NO. FH55-31S-0. 5SH		FH55-31S-0. 5SH		ı		
HIROSE ELEC			ECTRIC CO., LTD.	CTRIC CO., LTD. CODE		ENO. CL0580-3704-9-00		0-3704-9-00	Δ	1/2		

SPECIFICATIONS								
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ				
DRY HEAT	EXPOSED AT 85±2 °C, 96 h.	① CONTACT RESISTANCE: $100 \text{ m}\Omega$ MAX.	×	1				
COLD	EXPOSED AT -55±3 °C, 96 h.	② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	×	-				
SULPHUR DIOXIDE [JIS C 60068-2-42]	EXPOSED AT 40±2 °C, RELATIVE HUMIDITY 80±5% 25±5 ppm FOR 96 h.	<ol> <li>CONTACT RESISTANCE: 100 mΩ MAX.</li> <li>NO DAMAGE, CRACK OR LOOSENESS OF PARTS.</li> </ol>	×					
HYDROGEN SULPHIDE [JIS C 60068-2-43]	EXPOSED AT 40±2 °C, RELATIVE HUMIDITY 80±5%, 10 TO 15 ppm FOR 96 h.	③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	×	_				
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.	×	_				

## (note1)

WHEN THE SAME VALUE OF CURRENT ARE APPLIED TO ALL CONTACTS AT THE SAME TIME IN ONCE, SET THE CURRENT TO THE 70 % OF THE RATED CURRENT VALUE.

## (note2)

THIS PRODUCT HAS FLIP-LOCK CONSTRUCTION. FASTEN FPC ON PCB OR SOMETHING FIXED IF FORCE IN VERTICAL DIRECTION SHALL BE PREDICTED.

Note QT:C	tualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-341536-00-00		
HS.	SPECIFICATION SHEET	PART NO.	FH55-31S-0. 5SH			
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL058	0-3704-9-00	Δ	2/2