APPLICA	BLE STAND	ARD										
OPERATING TEMPERATURE RANG		RANGE	-55°C TO +105°C ⚠		TORAGE EMPERATURE RANGE PERATING OR STORAGE UMIDITY RANGE		-10°C TO +50°C(PACKED CONDITION)					
RATING	VOLTAGE		30V AC/DC				RELATIVE HUMIDITY 90%MAX(NOT				ED)	
	CURRENT		0.2A APPLICABLE C		CABLE CA	ABLE t=0.2±0.03mm, GOI			0.03mm, GOLD PLATED	LD PLATED		
			SPEC	IFIC/	10ITA	NS						
Γ	TEM		TEST METHOD					REQL	IREMENTS	QT	АТ	
CONSTR						1					1	
GENERAL EX	XAMINATION	VISUALL	ISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.				×	×	
MARKING		CONFIRM	CONFIRMED VISUALLY.							×	×	
ELECTRI	CAL CHAR	ACTERI	STICS									
VOLTAGE P	ROOF	90V AC F	FOR 1 min.			NO FLA	SHOVE	R OR I	BREAKDOWN.	×	×	
INSULATION	RESISTANCE	100V DC.			50MΩ MIN.				×	×		
CONTACT RESISTANCE		AC 20mV	C 20mV MAX (1KHz), 1mA.			100m $\Omega$ MAX. INCLUDING FPC BULK RESISTANCE (L=12mm)				×	×	
MECHAN	ICAL CHAF	RACTER	ISTICS			1					<u>I</u>	
VIBRATION			FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE						DISCONTINUITY OF 1 μ s.	×	_	
SHOCK		0.75 mm FOR 10 CYCLES IN 3 AXIAL DIRECTIONS.  981 m/s <sup>2</sup> . DURATION OF PULSE 6ms AT 3 TIMES			② CONTACT RESISTANCE: 100mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS				<u> </u>			
		_	H AXIAL DIRECTIONS.			OF PARTS.				×	_	
MECHANICA	MECHANICAL OPERATION 1		10 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				×	_	
FPC RETENTION FORCE		MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.20mm AT INITIAL CONDITION.)				DIRECTION OF INSERTION:  0.2N × NUMBER OF CONTACTS MIN.  (note1)				×	_	
ENVIRON	IMENTAL C		TERISTICS			1 4.10.00	<u> </u>				I	
CORROSION SALT MIST		EXPOSED AT 35±2°C, 5% SALT WATER SPRAY FOR 96h.			_			ANCE: 100m Ω MAX.	×	_		
						_	DAMAGI PARTS.	E, CRA	CK AND LOOSENESS			
						_			CORROSION WHICH			
RAPID CHAN	RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 $\rightarrow$ +15 TO +35 $\rightarrow$ +85 $\rightarrow$ +15TO+35 $^{\circ}$ C TIME 30 $\rightarrow$ 2 $\sim$ 3 $\rightarrow$ 30 $\rightarrow$ 2 $\sim$ 3 min UNDER 5 CYCLES.			CONTACT RESISTANCE: 100mΩ MAX.     INSULATION RESISTANCE: 50MΩ MIN.     NO DAMAGE, CRACK AND LOOSENESS				×		
TEMPERATU										^		
	DAMP HEAT		EXPOSED AT 40±2°C,			-1	PARTS.	-,		×	_	
(STEADY ST		RELATIVE HUMIDITY 90 TO 95%, 96h.  EXPOSED AT -10 TO +65 °C				① CONTACT RESISTANCE: 100m Ω MAX.				<u> </u>		
DAWII TIEAT	,OTOLIO	RELATIVE HUMIDITY 90 TO 96 %				② INSULATION RESISTANCE: $1M\Omega$ MIN.				×	_	
		10 CYCLES, TOTAL 240h.				<ul> <li>(AT HIGH HUMIDITY)</li> <li>INSULATION RESISTANCE: 50M Ω MIN.</li> <li>(AT DRY)</li> <li>NO DAMAGE, CRACK AND LOOSENESS OF PARTS.</li> </ul>						
							,					
COUN	ı <del>T</del> ı	)ESCDIDTI	ON OF REVISIONS		DESIG	IGNED CHECKED		CHECKED		TE		
1 1			-F-00000511		YH.MI(		CHECKED YN TAKASHITA		YN.TAKASHITA		7.29	
REMARK		2.0	1 0000011			311257	APPRO	VED	NM.NISHIMATSU		06.13	
							CHEC	KED	FN.TAMURA	11.0	6.10	
							DESIG	NED	HH.MURAKAMI	11.0	6.10	
Unless ot	herwise spe	cified, re	fied, refer to IEC 60512.			DRAWN			HH.MURAKAMI	I		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				[	DRAWING NO. ELC4-338			ELC4-338903	-01			
HS.		SPECIFICATION SHEET			PART	PART NO.		FH35C-**S-0.3SHW(5		50)		
	HI	HIROSE ELECTRIC CO., LTD.			CODE NO.		CL580			$\bigwedge$	1/2	

	SPECIFICATIO	NS		
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ
DRY HEAT	EXPOSED AT 85±2°C, 96h.	<ol> <li>CONTACT RESISTANCE: 100m Ω MAX.</li> <li>NO DAMAGE, CRACK AND LOOSENESS OF PARTS.</li> </ol>	×	_
COLD	EXPOSED AT -55±3°C, 96h.		×	_
SULPHUR DIOXIDE [JIS C 0090]	EXPOSED AT 40±2°C, RELATIVE HUMIDITY 80±5 %, 25±5 ppm FOR 96h.	<ol> <li>CONTACT RESISTANCE: 100mΩ MAX.</li> <li>NO DAMAGE, CRACK AND LOOSENESS OF PARTS.</li> </ol>	×	-
HYDROGEN SULPHIDE [JIS C 0092]	EXPOSED AT 40±2°C, RELATIVE HUMIDITY 80±5 %, 10 TO 15 ppm FOR 96h.	③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	×	_
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 235±5°C FOR IMMERSION DURATION, 2±0.5 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°CMAX. REFLOW TMP. 230°C MIN 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)

FASTEN FPC ON PCB OR SOMETHING FIXED IF FORCE IN VERTICAL DIRECTION SHALL BE PREDICTED. 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.

THIS CONNECTOR HAS CONTACT POINTS ON BOTH TOP AND BOTTOM.

Note QT:Qu	alification Test AT:Assurance Test X:Applicable Test	DRAWIN	G NO.	ELC4-338903-01		
HRS	SPECIFICATION SHEET	PART NO.	FH35C-**S-0.3SHW(50)			
πО	HIROSE ELECTRIC CO., LTD.	CODE NO.		CL580	$\triangle$	2/2