

APPLICABLE STANDARD						
RATING	OPERATING TEMPERATURE RANGE	-55℃ TO +105℃ 	STORAGE TEMPERATURE RANGE	-10℃ TO +50℃(PACKED CONDITION)		
	VOLTAGE	30V AC/DC	OPERATING OR STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 90%MAX(NOT DEWED)		
	CURRENT	0.2A	APPLICABLE CABLE	t=0.2±0.03mm, GOLD PLATED		
SPECIFICATIONS						
ITEM		TEST METHOD		REQUIREMENTS	QT	AT
CONSTRUCTION						
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	×	×
MARKING		CONFIRMED VISUALLY.			×	×
ELECTRICAL CHARACTERISTICS						
VOLTAGE PROOF		90V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	×	×
INSULATION RESISTANCE		100V DC.		50MΩ MIN.	×	×
CONTACT RESISTANCE		AC 20mV MAX (1KHz), 1mA.		100mΩ MAX. INCLUDING FPC BULK RESISTANCE (L=12mm)	×	×
MECHANICAL CHARACTERISTICS						
VIBRATION		FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm FOR 10 CYCLES IN 3 AXIAL DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μ s. ② CONTACT RESISTANCE: 100mΩ MAX.	×	—
SHOCK		981 m/s ² , DURATION OF PULSE 6ms AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS.			×	—
MECHANICAL OPERATION		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)	×	—
ENVIRONMENTAL CHARACTERISTICS						
CORROSION SALT MIST		EXPOSED AT 35±2℃, 5% SALT WATER SPRAY FOR 96h.		① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. ③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	×	—
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55→+15 TO +35→+85→+15TO+35 °C TIME 30 → 2 TO 3 → 30 → 2 TO 3 min UNDER 5 CYCLES.			×	—
DAMP HEAT (STEADY STATE)		EXPOSED AT 40±2℃, RELATIVE HUMIDITY 90 TO 95%, 96h.			×	—
DAMP HEAT,CYCLIC		EXPOSED AT -10 TO +65 °C RELATIVE HUMIDITY 90 TO 96 % 10 CYCLES, TOTAL 240h.		① CONTACT RESISTANCE: 100mΩ MAX. ② INSULATION RESISTANCE: 1MΩ MIN. (AT HIGH HUMIDITY) ③ INSULATION RESISTANCE: 50MΩ MIN. (AT DRY) ④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE
	1	DIS-F-00000511		YH.MICHIDA	YN.TAKASHITA	15.07.29
REMARK Unless otherwise specified, refer to IEC 60512				APPROVED	MO.ISHIDA	14.01.24
				CHECKED	HS.SAKAMOTO	14.01.24
				DESIGNED	YS.EBI	14.01.24
				DRAWN	NM.SANPEI	14.01.21
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC4-338903-05
	SPECIFICATION SHEET			PART NO.	FH35C-**S-0.3SHW(99)	
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL580	 1/2

SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
DRY HEAT	EXPOSED AT 85±2°C, 96h.	① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—	
COLD	EXPOSED AT -55±3°C, 96h.		×	—	
SULPHUR DIOXIDE [JIS C 60068-2-42]	EXPOSED AT 40±2°C, RELATIVE HUMIDITY 80±5 %, 25±5 ppm FOR 96h.	① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—	
HYDROGEN SULPHIDE [JIS C 60068-2-43]	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°C MAX. 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.					
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