


APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-55°C TO 85°C	STORAGE TEMPERATURE RANGE	-10°C TO 50°C(PACKED CONDITION)	
	VOLTAGE	30V AC	OPERATING OR STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 90%MAX(NOT DEWED)	
	CURRENT	0.3A	APPLICABLE CABLE	t=0.20±0.03mm, GOLD PLATING	
SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	×	×
MARKING	CONFIRMED VISUALLY.			×	×
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE	AC 20mV MAX., 1mA.		100mΩ MAX. INCLUDING FPC BULK RESISTANCE (L=12mm,THICKNESS OF COPPER FOIL:35 μ m)	×	×
INSULATION RESISTANCE	100V DC.		50MΩ MIN.	×	×
VOLTAGE PROOF	90V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	×	×
MECHANICAL CHARACTERISTICS					
FPC INSERTION FORCE	MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.20mm AT INITIAL CONDITION.)		0.15N/PIN MAX. (CONNECTOR,FPC AT INITIAL CONDITION)	×	—
FPC RETENSION FORCE	MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.20mm AT INITIAL CONDITION.)		0.30N/PIN MIN. (CONNECTOR,FPC AT INITIAL CONDITION)	×	—
MECHANICAL OPERATION	10 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
VIBRATION	FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75mm 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 DIRECTIONS.		③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40°C, RELATIVE HUMIDITY 90 TO 95%, 96h.		① CONTACT RESISTANCE: 100mΩ MAX. ② INSULATION RESISTANCE: 50MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
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
REMARK			APPROVED	RI.TAKAYASU	07.06.08
			CHECKED	TH.MURAI	07.06.08
			DESIGNED	TO.SHIBUYA	07.06.07
Unless otherwise specified, refer to JIS C 5402.			DRAWN	WR.YAMADA	07.06.04
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-153684-03
	SPECIFICATION SHEET		PART NO.	FH23-51S-0.3SHW(06)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL586-1312-6-06	1/2

SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→+15 TO +35→+85→+15 TO +35 °C TIME 30 → 2~3 → 30 → 2~3 min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 100mΩ MAX. ② INSULATION RESISTANCE: 50MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—	
DRY HEAT	EXPOSED AT 85°C, 96h.	① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—	
COLD	EXPOSED AT -55°C, 96h.		×	—	
CORROSION SALT MIST	EXPOSED AT 35°C, 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.	×	—	
HYDROGEN SULPHIDE [JIS C 0092]	EXPOSED AT 40°C, RELATIVE HUMIDITY 80%, 10 ~ 15 PPM FOR 96h.		×	—	
SURPHUR DIOXIDE [JIS C 0090]	EXPOSED AT 40°C, RELATIVE HUMIDITY 80%, 25 PPM FOR 96h.		×	—	
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING: PEAK TMP. 250°C MAX. REFLOW TMP. 230°C MIN FOR 60 sec. 2) SOLDERING IRONS: TMP. 350±5°C FOR 5 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×	—	
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 235°C FOR IMMERSION DURATION, 2 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	×	—	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-153684-03
HRS	SPECIFICATION SHEET		PART NO.	FH23-51S-0.3SHW(06)	
	HIROSE ELECTRIC CO., LTD.		CODE NO	CL586-1312-6-06	 2/2