APPLICABLE STANDARD	
OPERATING TEMPERATURE RANGE -55 °C TO 85 STORAGE TEMPERATURE RANGE -10 °C TO 50 °C (PACKE	ED CONDITION)
RATING VOLTAGE 50 V AC / DC OPERATING OR STORAGE RELATIVE HUMIDITY 90 % MA	X (NOT DEWED)
CURRENT 0.5 A APPLICABLE CABLE t=0.3±0.05mm, GOLD PLAT	ING.(4~30 POS.)
t=0.3±0.03mm, GOLD PLATIN	G.(OVER 31 POS.)
SPECIFICATIONS	
ITEM TEST METHOD REQUIREMENTS	QT AT
CONSTRUCTION GENERAL EXAMINATION VISUALLY AND BY MEASURING INSTRUMENT. ACCORDING TO DRAWING.	X X
MARKING CONFIRMED VISUALLY.	××
ELECTRIC CHARACTERISTICS	
VOLTAGE PROOF 150 V AC FOR 1 min. NO FLASHOVER OR BREAKDOWN.	× ×
INSULATION 100 V DC. 500 MΩ MIN. RESISTANCE	x x
CONTACT RESISTANCE AC 20 mV MAX (1 KHz) , 1 mA . 50 mΩ MAX.	××
INCLUDING FPC,FFC BULK RESISTA (L=8mm)	ANCE
MECHANICAL CHARACTERISTICS	
VIBRATION FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE ① NO ELECTRICAL DISCONTINUIT 0.75 mm, — m/s² FOR 10 CYCLES IN µs.	Y OF 1 × -
3 DIRECTIONS. ② CONTACT RESISTANCE: 50 mg	2 MAX.
SHOCK 981 m/s ² , DURATION OF PULSE 6 ms 3 NO DAMAGE, CRACK AND LOOS AT 3 TIMES IN 3 DIRECTIONS. OF PARTS	SENESS × -
AT 3 TIMES IN 3 DIRECTIONS. OF PARTS. MECHANICAL 20 TIMES INSERTIONS AND EXTRACTIONS. ① CONTACT RESISTANCE: 50 mΩ	2 MAX. × —
OPERATION ② NO DAMAGE, CRACK AND LOOS	1 ' ' 1
FPC RETENSION FORCE MEASURED BY APPLICABLE FPC. DIRECTION OF INSERTION :	x -
(THICKNESS OF FPC SHALL BE t=0.30mm 0.3N×n MIN.(4~30 POS.)	^ -
	ote 1)
ENVIRONMENTAL CHARACTERISTICS CORROSION SALT MIST EXPOSED AT 35±2 °C , 5 % SALT WATER SPRAY ① CONTACT RESISTANCE: 100 m	Ω MAX. x —
FOR 96 h. EXPOSED AT 35±2 C , 5 % SALT WATER SPRAY OF CONTACT RESISTANCE: 100 mg/ma. (2) NO DAMAGE, CRACK AND LOOSENES OF PARTS. (3) NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF	
CONNECTOR. RAPID CHANGE OF TEMPERATURE-55→+15T0+35→+85→+15T0+35°C (1) CONTACT RESISTANCE: 50 mΩ	2 MAX. × —
TEMPERATURE TIME $30 \rightarrow 2 \text{ to } 3 \rightarrow 30 \rightarrow 2 \text{ to } 3 \text{ min}$ 2 INSULATION RESISTANCE: 50 M:	Ω ΜΙΝ.
UNDER 5 CYCLES. 3 NO DAMAGE, CRACK AND LOOS DAMP HEAT EXPOSED AT 40±2 °C, OF PARTS.	ENESS X -
(STEADY STATE) RELATIVE HUMIDITY 90 TO 95 %, 96 h.	^ -
DAMP HEAT, CYCLIC EXPOSED AT -10 TO +65 °C, RELATIVE HUMIDITY 90 TO 96 %, 2 INSULATION RESISTANCE: 50 mc (AT HIGH HUMIDITY) 3 INSULATION RESISTANCE: 50 Mc (AT DRY)	Ω MIN. Ω MIN.
④ NO DAMAGE, CRACK AND LOOS OF PARTS.	ENESS
COUNT DESCRIPTION OF REVISIONS DESIGNED CHECKED	DATE
REMARK APPROVED MO. ISHID CHECKED NM. NISHIMA	
CHECKED NM. NISHIMATSU DESIGNED YH. KOTANI	
Unless otherwise specified, refer to JIS C 5402. DRAWN YH. KOTANI	
	07. 02. 14 56169–02
SPECIFICATION SHEET PART NO. FH33-**S-0.5	SH(10)

SPECIFICATIONS									
ITEM TEST METHOD		REQUIREMENTS	QT	АТ					
DRY HEAT	EXPOSED AT 85±2 °C, 96 h.	① CONTACT RESISTANCE: $50 \text{ m}\Omega$ MAX.	×	_					
COLD	EXPOSED AT -55±3°C, 96 h.	② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	_					
SURPHUR DIOXIDE [JIS C 0090]	·	(1) CONTACT RESISTANCE: $100 \text{ m}\Omega$ MAX. (2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	_					
HYDROGEN SULPHIDE EXPOSED AT 40±2 °C , RELATIVE HUMIDITY 80± [JIS C 0092] 5% , 10 TO 15 PPM FOR 96 h.		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 FOR 60 sec. 2) SOLDERING IRONS: TMP. 350 ± 10 °C FOR 5±1 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×						

(note1)

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

Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC4-156169-02		
HRS	SPECIFICATION SHEET	PART NO.	FH	FH33-**S-0.5SH(10)		
2.0	HIROSE ELECTRIC CO., LTD.	CODE NO		CL580	Δ	2/2