APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	−55℃ TO +85℃	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=0.12±0.02mm, 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.	200mΩ MAX. INCLUDING FPC BULK RESISTANCE (L=8mm)	×	×
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 μs. ② CONTACT RESISTANCE: 200mΩ MAX.	×	—
SHOCK	981 m/s², DURATION OF PULSE 6ms AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS	③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
MECHANICAL OPERATION	10 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 200mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
FPC RETENTION FORCE	MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.12mm AT INITIAL CONDITION.)	DIRECTION OF INSERTION: 0.05N × NUMBER OF CONTACTS + 2N MIN. (*note1*)	×	—
ENVIRONMENTAL CHARACTERISTICS				
CORROSION SALT MIST	EXPOSED AT 35±2℃, 5% SALT WATER SPRAY FOR 96h.	① CONTACT RESISTANCE: 200mΩ 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 ℃ TIME 30 → 2TO3 → 30 → 2TO3 min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 200mΩ MAX. ② INSULATION RESISTANCE: 50MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2℃, RELATIVE HUMIDITY 90 TO 95%, 96h.		×	—
DAMP HEAT,CYCLIC	EXPOSED AT −10 TO +65 ℃ RELATIVE HUMIDITY 90 TO 96 % 10 CYCLES, TOTAL 240h.	① CONTACT RESISTANCE: 200mΩ 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
△0					

REMARK

Unless otherwise specified, refer to IEC 60512.

APPROVED	NF.MIYAZAKI	16.03.08
CHECKED	HS.SAKAMOTO	16.03.08
DESIGNED	YH.MICHIDA	16.03.07
DRAWN	RN.IIDA	16.03.07

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC-322505-99-00

HRS	SPECIFICATION SHEET	PART NO.	FH42-**S-0.3SHW(99)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL580	△0 1/2

FORM HD0011-2-1

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
DRY HEAT	EXPOSED AT 85±2℃, 96h.	① CONTACT RESISTANCE: 200mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
COLD	EXPOSED AT −55±3℃, 96h.		×	—
SULPHUR DIOXIDE [JIS C 60068-2-42]	EXPOSED AT 40±2℃, RELATIVE HUMIDITY 80±5 %, 25±5 ppm FOR 96h.	① CONTACT RESISTANCE: 200mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. ③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	×	—
HYDROGEN SULPHIDE [JIS C 60068-2-43]	EXPOSED AT 40±2℃, RELATIVE HUMIDITY 80±5 %, 10 TO 15 ppm FOR 96h.		×	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 235±5℃ 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℃MAX. REFLOW TMP. OVER 230℃ WITHIN 60 sec. 2) SOLDERING IRONS: TMP. 350±10℃ 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 CONTACTS ON THE TOP.