

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD		-55 °C TO 85 °C		STORAGE TEMPERATURE RANGE	-10 °C TO 50 °C (PACKED CONDITION)	
RATING	OPERATING TEMPERATURE RANGE	30 V AC / DC		OPERATING OR STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 90 % MAX (NOT DEWED)	
	VOLTAGE	0.2 A		APPLICABLE CABLE	t=0.2±0.03mm, GOLD PLATING	
	CURRENT					
<b>SPECIFICATIONS</b>						
ITEM	TEST METHOD	REQUIREMENTS		QT	AT	
<b>CONSTRUCTION</b>			GENERAL EXAMINATION VISUALLY AND BY MEASURING INSTRUMENT. ACCORDING TO DRAWING.			
MARKING			CONFIRMED VISUALLY.			
<b>ELECTRIC CHARACTERISTICS</b>						
VOLTAGE PROOF	90 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.		X	X	
INSULATION RESISTANCE	100 V DC.	50 MΩ MIN.		X	X	
CONTACT RESISTANCE	AC 20 mV MAX (AC:1 KHz) , 1 mA.	100 mΩ MAX. INCLUDING FPC BULK RESISTANCE (L=12)		X	X	
<b>MECHANICAL CHARACTERISTICS</b>						
VIBRATION	FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm, FOR 10 CYCLES IN 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs.		X	—	
SHOCK	981 m/s <sup>2</sup> , DURATION OF PULSE 6 ms AT 3 TIMES IN 3 DIRECTIONS.	② CONTACT RESISTANCE: 100 mΩ MAX.		X	—	
		③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				
		① CONTACT RESISTANCE: 100 mΩ MAX. OF PARTS.		X	—	
MECHANICAL OPERATION	10 TIMES INSERTIONS AND EXTRACTATIONS.	② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—	
FPC RETENTION FORCE	MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.20mm AT INITIAL CONDITION.)	DIRECTION OF INSERTION : 0.15N x NUMBER OF CONTACTS MIN. (note 1)		X	—	
<b>ENVIRONMENTAL CHARACTERISTICS</b>						
CORROSION SALT MIST	EXPOSED AT 35±2 °C , 5 % SALT WATER SPRAY FOR 96 h.	① CONTACT RESISTANCE: 100 mΩ MAX. OF PARTS.		X	—	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: -55 → +15 to +35 → +85 → +15 to +35 °C TIME 30 → 2 to 3 → 30 → 2 to 3 min UNDER 5 CYCLES.	② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—	
		③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.				
		① CONTACT RESISTANCE: 100 mΩ MAX. OF PARTS.		X	—	
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, RELATIVE HUMIDITY 90 TO 95%, 96 h.	② INSULATION RESISTANCE: 50 MΩ MIN.		X	—	
DAMP HEAT, CYCLIC	EXPOSED AT -10 TO +65 °C, RELATIVE HUMIDITY 90 TO 96 %, 10 CYCLES, TOTAL 240 h.	③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—	
		① CONTACT RESISTANCE: 100 mΩ MAX. OF PARTS.		X	—	
		② INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY)				
		③ INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY)				
		④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE		
0						
<b>REMARK</b>						
Unless otherwise specified, refer to JIS C 5402.				DRAWING NO. ELC4-158578-06		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test						
<b>HRS</b>		SPECIFICATION SHEET		PART NO. FH36W-**-S-0.3SHW (50)		
		HIROSE ELECTRIC CO., LTD.		CODE NO.		
				APPROVED R.I. TAKAYASU 09.12.24		
				CHECKED FNJ TAMURA 09.12.24		
				DESIGNED HH. MURAKAMI 09.12.22		
				DRAWN HK. OSHIKIRI 09.12.19		

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## SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
DRY HEAT	EXPOSED AT 85±2 °C, 96 h.	① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
COLD	EXPOSED AT -55±3°C, 96 h.		X	—
SULPHUR DIOXIDE [JIS C 0090]	EXPOSED AT 40±2 °C, RELATIVE HUMIDITY ±5% 25±5 ppm FOR 96 h.	① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. ③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	X	—
HYDROGEN SULPHIDE [JIS C 0092]	EXPOSED AT 40±2 °C, RELATIVE HUMIDITY 80±5%, 10 TO 15 ppm FOR 96 h.		X	—
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.	X	—
RESISTANCE TO SOLDERING HEAT	1) REFLOW/ SOLDERING : PEAK TMP. 250 °C MAX. REFLOW TMP. OVER 230 °C WITHIN 60 sec. 2) SOLDERING IRONS : TMP. 350 ± 10 °C FOR 5±1 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. (note 2)	X	—

(note 1)

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

(note 2)

BLISTERS WHICH MAY OCCUR IN HOUSING DO NOT AFFECT PRODUCT PERFORMANCE.

Note	QT:Qualification Test	AT:Assurance Test	X:Applicable Test	DRAWING NO.	ELC4-158578-06
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	FH36W-**-S-0. 3SHW (50)	
	HIROSE ELECTRIC CO., LTD.			CODE NO	