APPLICA	ABLE STAN	DARD									
OPERATING TEMPERATURE		ERANGE -55°C TO +85°C STORAGE TEMPERAT		TURE RANGE		-10°C TO +50°C(PACKED CONDITION)					
RATING	VOLTAGE			1	OPERATING OR STO HUMIDITY RANGE		RELATIVE HUMIDITY 90%MAX(NOT DE			EWED))
	CURRENT		0.5A (<i>note1</i>)	APPLICA	BLE CABI	_E	t=0.3±	±0.0	5mm, GOLD PLATED		
			SPE	ECIFIC	ATION	IS					
П	ГЕМ		TEST METHO)			F	REQL	JIREMENTS	QT	АТ
CONSTRI	JCTION										
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			Γ.	ACCORDING TO DRAWING.				×	×
MARKING		CONFIRMED VISUALLY.								×	×
ELECTRIC	C CHARAC	TERIST	ICS								
VOLTAGE PF	ROOF	150V AC FOR 1 min±5sec.				NO FLASHOVER OR BREAKDOWN.				×	×
INSULATION	RESISTANCE	100±10V DC.				500MΩ MIN.				×	×
CONTACT RESISTANCE		AC 20mV MAX (1KHz), 1mA.				100m Ω MAX. INCLUDING FPC,FFC BULK RESISTANCE (L=8mm)				×	×
	ICAL CHAR					<u> </u>					1
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: 100m Ω 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.			×	_	
MECHANICAI	L OPERATION	20 TIMES INSERTIONS AND EXTRACTIONS.				① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	_	
FPC RETENT	TON FORCE	MEASURED BY APPLICABLE FPC/FFC. (THICKNESS OF FPC SHALL BE t=0.30mm AT INITIAL CONDITION.)				DIRECTION OF INSERTION: 22N MIN. (note2)			×	_	
ENVIRON	MENTAL C	HARAC	TERISTICS								•
CORROSION SALT MIST		EXPOSED AT $35\pm2^{\circ}$ C, CONCENTRATION 5 ± 1 wt%,pH VALUE 6.5 TO 7.2 SALT WATER SPRAY FOR 96h.				 CONTACT RESISTANCE: 100m Ω MAX. NO DAMAGE, CRACK AND LOOSENESS OF PARTS. NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR. 				×	_
RAPID CHAN	IGE OF	TEMPERATURE -55→+15 TO +35→+85→+15 TO +35 °C			+35 °C	① CONTACT RESISTANCE: 100mΩ MAX.				l 🛴	
TEMPERATURE		TIME $30 \rightarrow 2 \text{ TO } 3 \rightarrow 30 \rightarrow 2 \text{ TO } 3 \text{ min}$ UNDER 5 CYCLES.			3 min	② INSULATION RESISTANCE: 50MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				×	_
DAMP HEAT		EXPOSED AT 40±2°C,								×	_
(STEADY STA		RELATIVE HUMIDITY 90 TO 95%, 96h. EXPOSED AT -10 TO +65 °C				① CONTACT RESISTANCE: 100mΩ MAX,				''	
DAMP HEAT,CYCLIC		RELATIVE HUMIDITY 90 TO 96 % 10 CYCLES, TOTAL 240h.				② INSULATION RESISTANCE: 100III MAX. (AT HIGH HUMIDITY) ③ INSULATION RESISTANCE: 50MΩ MIN. (AT DRY) ④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				×	
COUN	T D	ESCRIPTI	ON OF REVISIONS		DESIG	NED			CHECKED	DA	TE
<u> </u>											
REMARK				APPROVED		MO.ISHIDA	13.09.02				
							CHECKE	-	YN.TAKASHITA	13.09.0	
Unless otherwise specified, refer to JIS C 5402.					DESIGNED SU.SUNAGA DRAWN SU.SUNAGA			13.08.30 13.08.30			
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				D	DRAWING NO. ELC4-34861						
	S	SPECIFICATION SHEET			PART	RT NO. FH50-28S-0.		FH50-28S-0.5SH			
HS.											

SPECIFICATIONS						
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ		
DRY HEAT	EXPOSED AT 85±2°C, 96h.	① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS	×	_		
COLD	EXPOSED AT -55±3°C, 96h. OF PARTS.		×	_		
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, 245±3°C FOR IMMERSION DURATION, 3±0.3 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°CMAX. REFLOW TMP. OVER 230°C WITHIN 60 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×	_		
	2) SOLDERING IRONS: TMP. 350±10°C FOR 5±1 sec.					

(note1)

WHEN THE SAME VALUE OF CURRENT ARE APPLID TO ALL CONTACTS AT THE SAME TIME IN ONCE, SET THE CURRENT TO THE 70 % OF THE RATED CURRENT VALUE.

(note2)

FIXING THE FPC/FFC IS RECOMMENDED, IF THE VERTICAL LOAD IS EXPECTED TO BE APPLIED TO THE FPC/FFC.

(note3)

BLISTERS WHICH MAY BE GENERATED ON THE HOUSING DO NOT AFFECT PRODUCT PERFORMANCE.

(note4)

INCOMPLETE MATING PREVENTION STRUCTURE OF THIS CONNECTOR DOES NOT COVER

ALL THE POSSIBLE CASES OF INCOMPLETE MATING MODE.

BE SURE TO NEED THE INSTRUCTION MANUAL FOR YOUR UNDERSTANDING OF THE FEATURES AND ATTENSIONS.

Note QT:Qu	alification Test AT:Assurance Test X:Applicable Test	DRAWIN	G NO.	ELC4-348616-00			
IDC	SPECIFICATION SHEET	PART NO.	FH50-28S-0.5SH				
HS	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL580	0-4005-5-00	\triangle	2/2	