APPLICA	BLE STAND	ARD									
OPERATING TEMPERATURE RANGE			−55°C TO +85°C	STORAGE TEMPERATURE RANGE		-10°C TO +50°C(PACKED CONDITION)					
RATING VOLTAGE			30V AC/DC	1	PERATING OR STOR IUMIDITY RANGE		RELATIVE HUMIDITY 90%MAX(NO		HUMIDITY 90%MAX(NOT D	DEWED)	
	CURRENT		0.2A	APPLICABLE CABLE			t=0.12±0.02mm, GOLD PLATED				
			SPE	CIFICA	ATION	NS					
Γ	TEM		TEST METHOD					REQL	JIREMENTS	QT	АТ
CONSTR	UCTION										
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			•	ACCORDING TO DRAWING.				×	×
MARKING		CONFIRMED VISUALLY.								×	×
ELECTRI	C CHARAC	TERIST	ICS								
VOLTAGE P	ROOF	90V AC FOR 1 min.				NO FLASHOVER OR BREAKDOWN.				×	×
INSULATION	RESISTANCE	100V DC.				50MΩ MIN.				×	×
CONTACT RESISTANCE		AC 20mV	20mV MAX (1KHz), 1mA.			200mΩ MAX. INCLUDING FPC BULK RESISTANCE (L=8mm)				×	×
MECHAN	ICAL CHAF	RACTER	ISTICS			l				<u> </u>	ı
VIBRATION		FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm FOR 10 CYCLES IN 3 DIRECTIONS.				① NO ELECTRICAL DISCONTINUITY OF 1 μ s. ② CONTACT RESISTANCE; 200m Ω MAX.				×	_
SHOCK		981 m/s ² , DURATION OF PULSE 6ms AT 3 TIMES IN 3 DIRECTIONS.			1ES	③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	_	
MECHANICAL OPERATION						① CONTACT RESISTANCE: 200mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS				×	-
FPC RETENSION FORCE		MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.12mm				OF PARTS. DIRECTION OF INSERTION: 0.05N × NUMBER OF CONTACTS+2N MIN.			×	_	
ENIVIDON	IMENTAL C	1	AL CONDITION.)			(note1)					
	SALT MIST		O AT 35±2°C, 5% SALT WA	TER SPRA	·Υ	① CON	NTACT R	ESIST	ΓANCE: 200m Ω MAX.		
		FOR 96h.				NO DAMAGE, CRACK AND LOOSENESS OF PARTS. NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.				×	_
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 \rightarrow +15 TO +35 \rightarrow +85 \rightarrow +15TO+35 °C TIME 30 \rightarrow 2 \sim 3 \rightarrow 30 \rightarrow 2 \sim 3 min				① CONTACT RESISTANCE: $200m\Omega$ MAX. ② INSULATION RESISTANCE: $50m\Omega$ MIN.				×	-
DAMP HEAT	•	UNDER 5 CYCLES. EXPOSED AT 40±2°C,				③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.					
(STEADY ST		RELATIVE HUMIDITY 90 TO 95%, 96h. EXPOSED AT -10 TO +65 °C				(1) 00h	ITA OT D	FOICI	TANOT: 000: O MAY	×	_
DAMP HEAT, CYCLIC		RELATIV	ED AT -10 TO +65 C VE HUMIDITY 90 TO 96 % LES, 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. 			×	_	
COUN	ІТ Г	ESCRIPTI	ON OF REVISIONS	<u> </u>	DESIG		GNED		CHECKED	DA	TE
1 1 1 1 1 1 1 1 1 1					22010					27	
REMARK							APPRO	VED	MO.ISHIDA	10.0	4.01
							CHEC		NM.NISHIMATSU		4.01
		E. Jf., 110 0 5400					SIGNED HY.YAMAZAKI		10.0	4.01	
Unless otherwise specified, refer to JIS C 5402.					DRAWN HY.YAMAZAKI				10.0	4.01	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test SPECIFICATION SHEET			est		DRAWING NO. ELC4-32250 ET NO. FH42-**S-0.3SHW(
HS			LECTRIC CO., LTD.					<u>+∠ ↑↑</u> 3¯∪.33∏VV(SHW(10) /ô\ 1/2		
1	ı HII	ているに ヒ	LEGIRIG GO., LID.		CODE	: NU.	I			/∪\	1/2

	SPECIFICATIO	DNS		
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ
DRY HEAT	EXPOSED AT 85±2°C, 96h.	 CONTACT RESISTANCE: 200m Ω MAX. NO DAMAGE, CRACK AND LOOSENESS OF PARTS. 	×	_
COLD	EXPOSED AT -55±3°C, 96h.		×	-
SURPHUR DIOXIDE [JIS C 0090]	EXPOSED AT 40±2°C, RELATIVE HUMIDITY 80±5 %, 25±5 ppm FOR 96h.	 CONTACT RESISTANCE: 200m Ω MAX. NO DAMAGE, CRACK AND LOOSENESS OF PARTS. 	×	-
HYDROGEN SULPHIDE [JIS C 0092]	EXPOSED AT 40±2°C, RELATIVE HUMIDITY 80±5 %, 10 TO 15 ppm FOR 96h.	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°CMAX. REFLOW TMP. 230°C MIN WHITIN 60 sec. 2) SOLDERING IRONS: TMP. 350±10°C 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.

Note QT:Qua	alification Test AT:Assurance Test X:Applicable Test	DRAWIN	G NO.	ELC4-322505-01		
שנו	SPECIFICATION SHEET	PART NO.	FH42-**S-0.3SHW(10)			
NO	HIROSE ELECTRIC CO., LTD.	CODE NO.		CL580	<u></u>	2/2