APPLICA	BLE STAN	DARD									
	OPERATING TEMPERATURE RANGE VOLTAGE		-40 °C TO 85 °C 50 V AC / DC			ORAGE MPERATURE RANGE		-10 °C TO 50 °C (PACKE	-10 °C TO 50 °C (PACKED CONDITION		
RATING					OPER		R STORAGE	RELATIVE HUMIDITY 90 % MA	X(NOT D	EWED	
	CURRENT		0.5 A (note 1	<u> </u>	APPL	PLICABLE CABLE		t=0.3±0.05mm, GOLD	PLATII	NG	
		I	SPEC	·	ATIO	NS					
רו	 ГЕМ		TEST METHOD	11 10/	******	T	RE	QUIREMENTS	QT	Тат	
CONSTRUCTION							REQUIREMENTS			1 /	
GENERAL EXAMINATION		VISUALLY	AND BY MEASURING IN	STRUME	ENT.	ACCO	RDING TO	DRAWING.	×	×	
MARKING		CONFIRMED VISUALLY.							×	×	
	ICAL CHA										
CONTACT RESISTANCE		1mA(DC OR 1000Hz).			50 m Ω MAX. INCLUDING FPC,FFC BULK RESISTANCE (L=8mm)			×	×		
INSULATION RESISTANCE		100 V DC.			(L=8mm) 500 MΩ MIN.			×	×		
VOLTAGE P	ROOF	150 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.			×	×		
	VICAL CHA										
MECHANICAL OPERATION		20 TIMES INSERTIONS AND EXTRACTIONS.			 CONTACT RESISTANCE: 50 mΩ MAX. NO DAMAGE, CRACK AND LOOSENESS OF PARTS. 			×			
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.			1 ×	-		
SHOCK		981 m/s ² , DURATION OF PULSE 6 ms AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS.			 ② CONTACT RESISTANCE: 50 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. 			×	-		
FPC RETEN	ITION FORCE	MEASURED BY APPLICABLE FPC. (CONNECTOR, FPC AT INITIAL CONDITION. THICKNESS OF FPC SHALL BE t=0.30mm)			DIRECTION OF INSERTION: 0.4×n N MIN (n: NUMBER OF CONTACTS).			×	-		
ENVIRO	NMENTAL		CTERISTICS			1				1	
RAPID CHANGE OF		TEMPERATURE-40→+15 _{TO} +35→+85→+15 _{TO} +35°C			① CONTACT RESISTANCE: 50 mΩ MAX.			×	T -		
TEMPERATURE		TIME $30 \rightarrow 2 \text{ TO } 3 \rightarrow 30 \rightarrow 2 \text{ TO } 3 \text{ min.}$ UNDER 5 CYCLES.			② INSULATION RESISTANCE: 50 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS						
DAMP HEAT (STEADY ST		EXPOSED AT 40±2 °C, RELATIVE HUMIDITY 90 TO 95 %, 96 h.			OF PARTS.			×	-		
DAMP HEAT	F,CYCLIC				 CONTACT RESISTANCE: 50 mΩ MAX. INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY) INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY) NO DAMAGE, CRACK AND LOOSENESS 			×	_		
DRY HEAT		EXPOSE	XPOSED AT 85±2 °C, 96 h.			OF PARTS. ① CONTACT RESISTANCE: 50 mΩ MAX.				+_	
COLD			EXPOSED AT -40±3°C. 96 h.			 ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. ① CONTACT RESISTANCE: 50 mΩ MAX. 				 	
CORROSION SALT MIST		EXPOSE	EXPOSED AT 35±2 °C 5% SALT WATER SPRAY							+-	
SULPHUR DIOXIDE		FOR 96 h. EXPOSED AT 40±2 °C , RELATIVE HUMIDITY 80±5% , 25±5 ppm FOR 96 h.			② NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.				†-		
HYDROGEN	SULPHIDE	EXPOSE	DAT 40±2 °C , RELATIVE F 0 TO 15 ppm FOR 96 h.	HUMIDIT	Υ		0.011.		×	-	
COUN	IT D	L ESCRIPTIO	N OF REVISIONS		DESIG	NED		CHECKED	D/	I ATE	
0							I				
REMARK						APPROVED CHECKED DESIGNED			+	10. 15	
									+	10. 15	
l Inless of	henwise spo	cified ro	sified refer to JIS C 5402			DRAWN			14. 10. 14 14. 10. 09		
Unless otherwise specified, refer to JIS C 5402. Note QT:Qualification Test AT:Assurance Test X:Applicable Test			est	DI	DRAWING NO. ELC4-33				10. 0		
HS	S	PECIFIC	ECIFICATION SHEET PART					FH52-12S-1SH			
117	HIR	OSE EL	ECTRIC CO., LTD.		CODF	NO. CI 580		80-3323-5-00	Δ	1/2	
	1				CODE NO.		0000 0020 0-0-00		<u>~~</u>		

SPECIFICATIONS								
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ				
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING (TO BE 2 TIMES MAX.) PEAK TMP. 250 °C MAX REFLOW TMP. OVER 230 °C WITHIN 30 sec. PRE-HEATING. 150 TO 200 °C 90 TO 120 sec. 2) SOLDERING IRONS: 350 ± 10 °C, FOR 5± 1 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×	_				
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.	×	_				

(note 1)

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

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC4-335205-01		
HRS	SPECIFICATION SHEET	PART NO. FH52-12S-1SH				
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL580	-3323-5-00	A	2/2