APPLICAB	LE STANDA	RD							
Operating Temperature		Range (2)	-40°C to +105°C		Storage Ter Range	nperature	-10°C to +6	0°C	
Rating	Voltage		AC, DC 1000 V		_	-	_		
	Current ⁽¹⁾	13A(ambient temperature 25°C) App			Applicable (licable Cable Φ10.7~11.5			
			SPECIF	FICATIO	DNS				
ΙΤ	ГЕМ		TEST METHOD			REC	QUIREMENTS	QT	АТ
CONSTRU	CTION	•							
General Examination		Examined visually and with a measuring instrument.			Accordin	ng to the draw	ving.	Х	Х
Marking		Confirmed visually.						Х	Х
ELECTRICAL CHARAC					1			X	TV
Contact Resistance		Measured at 500 V DC				5 mΩ MAX.			X
Insulation Resistance Voltage Proof		Measured at 500 V DC. 2200 V AC applied for 1 min.				5000 MΩ MIN. No flashover or breakdown.			X
Impulse Voltage Proof		Subjected to a standard waveform of 15kV in mated condition							
		$(1.2/50\mu s)$ waveform, applied in both positive and negative							
		polarities 3 times each).							
	CAL CHARA	CTERIST	ICS		•				
Contact Insertion and Extraction Forces		Measured with a ϕ steel gauge.			Insertior	Insertion and extraction forces: - N MIN.			_
Mating and Unmating Forces		Measured with an applicable connector.			Mating a	Mating and unmating forces: 100 N MAX.			_
Contact Retention Force		Subjected to a 20N force from the wiring side.			No mov	No movement of contact.			
					0				+-
Mechanical Operation Vibration		Mated and unmated 500 times. Frequency: 10 Hz to 55 to 10 Hz every cycle (5 min per cycle)				Contact resistance: 10 mΩ MAX. 1) No electrical discontinuity of more than 10 μs.			+
		Single amplitude: 0.75 mm Performed over 10 cycles in each of three mutually perpendicular directions.				2) No damage, cracks or looseness of parts.			-
Shock		Acceleration: 490 m/s², Half sine wave pulses of 11 ms. Performed 3 times in each of three mutually perpendicular				 No electrical discontinuity of more than 10 μs. No damage, cracks or looseness of parts. 			-
ENVIRONI	MENTAL CH	directions.							
		Temperature: -40 \rightarrow R/T ⁽³⁾ \rightarrow +105 \rightarrow R/T °C			1) Insula	1) Insulation resistance: 500 MΩ MIN.			T
		Time: $30 \rightarrow 2$ to $3 \rightarrow 30 \rightarrow 2$ to 3 min			2) No da	2) No damage, cracks or looseness of parts.			-
		for 5 cycles.							
Damp Heat, Steady State		Subjected to a temperature of +40°C, at a humidity of 90 to 95% for 96 hours.			(At h 2) Insula	 Insulation resistance: 50 MΩ MIN. (At high humidity) Insulation resistance: 500 MΩ MIN. (When dry) No damage, cracks or looseness of parts. 			-
Corrosion Salt Mist ⁽⁴⁾		Subjected to 5% salt spray for 48h.			No heav	No heavy corrosion which impairs functionality.			
Dry Heat		Subjected to +105°C for 96h.			No dam	No damage, cracks or looseness of parts.			_
Cold		Subjected to -40°C for 96h.			No dam	No damage, cracks or looseness of parts.			_
Sealing ⁽⁴⁾		Subjected to a depth of 2 m for 14 days.				No water penetration to the inside of the connector.			-
Air Tightness ⁽⁴⁾		17.6kPa applied to the inside of the connector for 0.5min.			No air b	No air bubbles from the inside of the connector.			_
								X	
COUN	IT DI	ESCRIPTI	ON OF REVISIONS	DF	SIGNED		CHECKED	DA	L ATE
1			-A-00065601					1	
NOTES								-	
(1) The	•	ions show the values in assembled condition with applicable licable crimp contact: HR41A-PC-111)			Э	APPROVE	D TP. KOMATSU	20220301	
		e rise due to current carrying.				CHECKE	D EJ. KUNI I	20220301	
(4) Corr	: Room Temper rosion salt mist, s licable connector	ealing and airtightness are tested in mated condition with an			n	DESIGNE	D SH. KOYAMA	20220228	
· · ·			rified, refer to IEC 60512 (JIS C 5402).			DRAWN	SH. KOYAMA	20220228	
Note QT:Qualification Test AT:A			ĺ		DRAWIN	IG NO.	ELC-118142-81-00)
HS.	S	PECIFI	CATION SHEET	PA	ART NO.	Н	HR41A-17WBJ-5PC(81)		
1	HIROSE EI		LECTRIC CO., LTD.	cc	DDE NO.	CL0141-0202-9-81		<u>^</u>	1/1