


APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-25 °C TO +85 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C	
	VOLTAGE	AC 600 V	APPLICABLE CABLE	600V VCT VINYL CABLE	
	CURRENT	20 A	APPLICABLE WIRE SIZE	INSURATOR OUTER DIA. ϕ 3.4mm CONDUCTOR CROSS SECTION 2.0mm ²	
SPECIFICATIONS					
ITEM		TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION					
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING		CONFIRMED VISUALLY.		X	X
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE		CONTACT SHALL BE MEASURED AT DC 1 A.	5 m Ω MAX.	X	—
INSULATION RESISTANCE		500 V DC.	5000 M Ω MIN.	X	—
VOLTAGE PROOF		2100 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	—
MECHANICAL CHARACTERISTICS					
CONNECTOR INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR. LOCKING DEVICE WITH UNLOCK.	INSERTION AND WITHDRAWAL FORCES : 80 N MAX.	X	—
MECHANICAL OPERATION		100 TIMES INSERTIONS AND EXTRACTIONS.	CONTACT RESISTANCE: 10 m Ω MAX.	X	—
VIBRATION (RANDOM)		FREQUENCY 10 TO 100 Hz, DURABILITY TEST ASD LEVEL 11.83(m/S ²) ² /Hz, AT 5 h, FOR 3 DIRECTIONS. EARLY ANGULARITY 9dB/oct (5 TO 10 Hz), FINAL ANGULARITY -6dB/oct (100 TO 250 Hz). (REFER TO IEC 61373.)	①NO ELECTRICAL DISCONTINUITY OF 1 μ s. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
SHOCK		490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.	①NO ELECTRICAL DISCONTINUITY OF 1 μ s. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
CONTACT RETENTION FORCE		APPLYING A PULL FORCE THE WIRE AFTER THE APPLICABLE CRIMPED CONTACT IS ASSEMBLED THE BODY.	30N MIN.	X	—
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 °C, 90 TO 95 %, 96 h.	① INSULATION RESISTANCE: 50 M Ω MIN (AT HIGH HUMIDITY), 500 M Ω MIN (AT DRY). ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -40 \rightarrow R/T ⁽¹⁾ \rightarrow +105 \rightarrow R/T °C TIME 30 \rightarrow 2 TO 3 \rightarrow 30 \rightarrow 2 TO 3 min UNDER 200 CYCLES.	① INSULATION RESISTANCE: 5000 M Ω MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 500 h.	NO DEFECT FOR LOCK ACTIVITY.	X	—
DRY HEAT		EXPOSED AT + 100 °C , 400 h.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
COLD		EXPOSED AT - 40 °C , 400 h.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
SEALING ⁽²⁾		EXPOSED AT A DEPTH OF 1 m FOR 0.5 h.	NO WATER PENETRATION INSIDE CONNECTOR.	X	—
AIRTIGHTNESS ⁽²⁾		APPLY AIR PRESSURE 19.6 kPa FOR 0.5 min TO INSIDE CONNECTOR.	NO AIR BUBBLES FROM INSIDE CONNECTOR.	X	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
①					
REMARK			APPROVED	HY. KOBAYASHI	16.04.01
ABOVE SPECIFICATION SHOWS THE VALUES IN ASSEMBLED CONDITION WITH APPLICABLE CRIMP CONTACTS.			CHECKED	HY. KOBAYASHI	16.04.01
NOTES (1) R/T : ROOM TEMPERATURE.			DESIGNED	TH. KAMEYA	16.03.31
(2) SEALING AND AIRTIGHTNESS, SHALL BE TESTED UNDER MATED CONDITION WITH AN APPLICABLE CONNECTOR.			DRAWN	TH. KAMEYA	16.03.31
Unless otherwise specified, refer to IEC 60512.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-117730-00-00	
HRS	SPECIFICATION SHEET		PART NO.	HR43-21WBJ-3PC	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL143-0002-2-00	 1/1