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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

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. ϕ3.4mm 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 mΩ MAX.	X	—
INSULATION RESISTANCE	500 V DC.	5000 MΩ 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 mΩ 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 μs. 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 μs. 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 ℃, 90 TO 95 %, 96 h.	① INSULATION RESISTANCE: 50 MΩ MIN (AT HIGH HUMIDITY), 500 MΩ MIN (AT DRY). ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -40 → R/T(1) → +105 → R/T ℃ TIME 30 → 2 TO 3 → 30 → 2 TO 3 min UNDER 200 CYCLES.	① INSULATION RESISTANCE: 5000 MΩ 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 ℃ , 400 h.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
COLD	EXPOSED AT - 40 ℃ , 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
A					

REMARK

ABOVE SPECIFICATION SHOWS THE VALUES IN ASSEMBLED CONDITION WITH APPLICABLE CRIMP CONTACTS.

NOTES (1) R/T : ROOM TEMPERATURE.

(2) SEALING AND AIRTIGHTNESS, SHALL BE TESTED UNDER MATED CONDITION WITH AN APPLICABLE CONNECTOR.

Unless otherwise specified, refer to IEC 60512.

APPROVED	HY.KOBAYASHI	16.04.01
CHECKED	HY.KOBAYASHI	16.04.01
DESIGNED	TH.KAMEYA	16.03.31
DRAWN	TH.KAMEYA	16.03.31

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	A 1/1

FORM HD0011-2-1