

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. $\phi$ 3.4mm CONDUCTOR CROSS SECTION 2.0mm <sup>2</sup>	
<b>SPECIFICATIONS</b>					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
<b>CONSTRUCTION</b>					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X	
MARKING	CONFIRMED VISUALLY.		X	X	
<b>ELECTRIC CHARACTERISTICS</b>					
CONTACT RESISTANCE	CONTACT SHALL BE MEASURED AT DC 1 A.	5 m $\Omega$ MAX.	X	-	
INSULATION RESISTANCE	500 V DC.	5000 M $\Omega$ MIN.	X	-	
VOLTAGE PROOF	2100 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	-	
<b>MECHANICAL CHARACTERISTICS</b>					
CONTACT INSERTION AND WITHDRAWAL FORCES	$\phi$ 2.362 <sup>+0.003</sup> <sub>0</sub> BY STEEL GAUGE.	INSERTION AND WITHDRAWAL FORCES : 0.9N MIN.	X	-	
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 $\Omega$ MAX.	X	-	
VIBRATION (RANDOM)	FREQUENCY 10 TO 100 Hz, DURABILITY TEST ASD LEVEL 11.83(m/s <sup>2</sup> ) <sup>2</sup> /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 $\mu$ s. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
SHOCK	490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.	①NO ELECTRICAL DISCONTINUITY OF 1 $\mu$ 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	-	
LOCK ACTIVITY	MEASURE THE TORQUE AT LOCK OR UNLOCK UNDER MATED APPLICABLE CONNECTOR.	1.2N · m MAX.	X	-	
<b>ENVIRONMENTAL CHARACTERISTICS</b>					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90 TO 95 %, 96 h.	① INSULATION RESISTANCE: 50 M $\Omega$ MIN ( AT HIGH HUMIDITY ), 500 M $\Omega$ MIN ( AT DRY ). ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -40 $\rightarrow$ R/T <sup>(1)</sup> $\rightarrow$ +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 $\Omega$ 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 <sup>(2)</sup>	EXPOSED AT A DEPTH OF 1 m FOR 0.5 h.	NO WATER PENETRATION INSIDE CONNECTOR.	X	-	
AIRTIGHTNESS <sup>(2)</sup>	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
	0				
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-117729-00-00		
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	HR43-21WBP-3SC	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL143-0001-0-00	1/1