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 In case that the application demands a high level of reliability, such as automotive,  
 please contact a company representative for further information.

APPLICABLE STANDARD		MIL-C-5015			
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO +125 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C	
	VOLTAGE	AC 500 V , DC 700 V			
	CURRENT	13 A <sup>(1)</sup>	APPLICABLE CABLE		
<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. (MIL-C-2316)		5 mΩ MAX.	X	X
INSULATION RESISTANCE	500 V DC. (MIL-STD-1344 3003)		5000 MΩ MIN.	X	X
VOLTAGE PROOF	2000 V AC. FOR 1 min. (MIL-STD-1344 3001)		NO FLASHOVER OR BREAKDOWN.	X	X
<b>MECHANICAL CHARACTERISTICS</b>					
CONTACT INSERTION AND WITHDRAWAL FORCES	φ1.562 <sup>+0.003</sup> <sub>0</sub> BY STEEL GAUGE.		INSERTION AND WITHDRAWAL FORCES : 0.6 N MIN.	X	-
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR. (WITHOUT LOCK MECHANISM)		INSERTION AND WITHDRAWAL FORCES : 150 N MAX.	X	-
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS. (MIL-C-5015 4, 6, 12, 2)		CONTACT RESISTANCE: 7.5 mΩ MAX.	X	-
VIBRATION	FREQUENCY: 10 TO 500 Hz, SINGLE AMPLITUDE 0.75 mm, 98 m/s <sup>2</sup> AT 3h, FOR 3 DIRECTIONS. (MIL-STD-1344 2005, CONDITION II)		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	-
SHOCK	490 m/s <sup>2</sup> DURATIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. (MIL-STD-1344 2004, CONDITION E)		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	-
<b>ENVIRONMENTAL CHARACTERISTICS</b>					
DAMP HEAT (STEADY STATE)	EXPOSED AT 71°C, 95%, 336h. (MIL-C-5015 4, 6, 10)		① INSULATION RESISTANCE: 50 MΩ MIN. (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 500 MΩ MIN. (AT DRY). ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → R/T <sup>(2)</sup> → +125 → R/T °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES. (MIL-C-5015 4, 6, 4)		① INSULATION RESISTANCE: 5000 MΩ MIN. . ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	-
SEALING <sup>(3)</sup>	EXPOSED AT A DEPTH OF 1.8 m FOR 48 h.		NO WATER PENETRATION INSIDE CONNECTOR.	X	-
AIRTIGHTNESS <sup>(3)</sup>	APPLY AIR PRESSURE 40 kPa FOR 30 s TO INSIDE CONNECTOR.		NO AIR BUBBLES FROM CONNECTOR INTERFACE.	X	-
RESISTANCE TO SOLDERING HEAT	SOLDERED AT SOLDER TEMPERATURE, +380°C±10°C FOR SOLDERING DURATION, 10±1 s.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	-
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, +350°C±10°C FOR SOLDERING DURATION, 5±1 s.		WETTING ON SOLDER SURFACE. NO SOLDER CLUSTER.	X	-
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. (MIL-STD-1344 1001 B)		NO HEAVY CORROSION.	X	-
OIL RESISTING	DROP CUTTING OIL FOR 48 HOURS AT THE RATE OF 0.5 L / h. (JIS B 6015)		NO OIL SEEPAGE INSIDE CONNECTOR.	X	-
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
0					
REMARK			APPROVED	SU. OBARA	10.10.04
NOTES (1) 13 A RATED CURRENT IS THE MAXIMUM CURRENT FLOW PER CONTACT. BUT THE CURRENT CAPACITY OF WHOLE IS CONNECTOR 49.4 A MAX. . (2) R/T : ROOM TEMPERATURE (3) SEALING AND AIRTIGHTNESS SHALL BE TESTED BY APPLICABLE CONNECTOR.			CHECKED	HY. KISHI	10.10.04
			DESIGNED	TH. KAMEYA	10.10.01
			DRAWN	YS. SAKODA	10.09.29
Unless otherwise specified, refer to JIS C 5402.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-036137-73	
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	H/MS3106A22-14S (73)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL120-0613-2-73	△ 1/1