

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-40 °C to +85°C(90%RH MAX)		STORAGE TEMPERATURE RANGE	-40°C to +50°C(90%RH MAX)		
	POWER	- w		CHARACTERISTIC IMPEDANCE	50 Ω ( 0 to 1 GHz)		
	PECULIARITY	NON MAGNETIC		APPLICABLE CABLE	UL 1745-SB-CX-50 AWG30 TAD = 1.37 (HITACHI CABLE CO., LTD.)		
SPECIFICATIONS							
ITEM		TEST METHOD		REQUIREMENTS		QT	AT
CONSTRUCTION							
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		x	x
MARKING		CONFIRMED VISUALLY.				-	-
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE	100 mA MAX (DC OR 1000 Hz).		CENTER CONTACT	30 mΩ MAX.	x	x	
			OUTER CONTACT	30 mΩ MAX.	x	x	
INSULATION RESISTANCE	500 V DC.		500 MΩ MIN.		x	x	
VOLTAGE PROOF	500 V AC FOR 1 min.CURRENT LEAKAGE 2mA MAX.		NO FLASHOVER OR BREAKDOWN.		x	x	
VOLTAGE STANDING WAVE RATIO	FREQUENCY 0.045 to 0.5 GHz		VSWR 1.3 MAX		x	-	
	FREQUENCY 0.5 to 1 GHz		VSWR 1.5 MAX				
INSERTION LOSS	FREQUENCY to GHz		dB MAX.		-	-	
MECHANICAL CHARACTERISTICS							
CONTACT INSERTION AND EXTRACTION FORCES	MEASURED BY WIDTH STEEL GAUGE		INSERTION FORCE	N MAX.	-	-	
			EXTRACTION FARCE	N MIN	-	-	
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE	1.5 N MAX.	x	-	
			EXTRACTION FARCE	0.15 N MIN.	x	x	
MECHANICAL OPERATION	60,000 TIMES INSERTIONS AND EXTRACTIONS △		1) CONTACT RESISTANCE: CENTER CONTACT 60 mΩMAX. OUTER CONTACT 60 mΩMAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x	-	
VIBRATION	FREQUENCY 10 to 500 Hz SINGLE AMPLITUDE 0.75 mm, 98 m/s <sup>2</sup> AT 10 CYCLES FOR 3 DIRECTIONS.		1) NO ELECTRICAL DISCONTINUITY OF 1 μs. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x	-	
SHOCK	735 m/s <sup>2</sup> DIRECTIONS OF PULSE 6 ms AT 3 TIMES FOR 3 DIRECTIONS.				x	-	
CABLE CLAMP ROBUSTNESS (AGAINST CABLE PULL)	APPLYING A PULL FORCE THE CABLE AXIALLY AT 19.6 N MAX.		1) NO WITHDRAWAL AND BREAKAGE OF CABLE. 2) NO BREAKAGE OF CLAMP.		x	-	
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT	EXPOSED AT +40 °C 、 95% TOTAL ( 96 H)		1) INSULATION RESISTANCE: 10 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→ 20 to 35→ +80→ 20 to 35 °C TIME 30 → 3 → 30 → 3 min. UNDER 5 CYCLES.		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x	-	
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.		NO HEAVY CORROSION.		x	-	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE		
△	1	DIS-D-00000160	HA. NISHIMURA	MH. TSUCHIDA	15. 04. 07		
REMARK RoHS COMPLIANT NON MAGNETIC			APPROVED	MH. YAMANE	12. 09. 05		
			CHECKED	MH. TSUCHIDA	12. 09. 05		
			DESIGNED	TS. KANEKO	12. 09. 05		
			DRAWN	YY. KOBAYASHI	12. 09. 05		
Unless otherwise specified, refer to JIS C 5402.							
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-347403-00		
HRS	SPECIFICATION SHEET		PART NO.	MRF14-P-088NM-1			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL313-0714-8-00	△	1/1	