	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△						△					
△						△					

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-20 °C TO +60°C(95%RH MAX)	STORAGE TEMPERATURE RANGE	-40 °C TO +70°C(95%RH MAX)
	POWER	W	CHARACTERISTIC IMPEDANCE	50 Ω (0 TO 3 GHz)
	PECULIARITY		APPLICABLE CABLE	RG-178B/U , RG-196A/U

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	○	○
MARKING	CONFIRMED VISUALLY.		—	—
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	10 mA (DC OR 1000 Hz).	CENTER CONTACT 10 mΩ MAX.	○	○
		OUTER CONTACT 3 mΩ MAX.	○	○
INSULATION RESISTANCE	500 V DC.	5000 MΩ MIN.	○	○
VOLTAGE PROOF	500 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	○	○
VOLTAGE STANDING WAVE RATIO	FREQUENCY 0 TO 3 GHz	VSWR 1.3 MAX.	○	—
INSERTION LOSS	FREQUENCY 0 TO 3 GHz	0.2 dB MAX.	○	—
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND EXTRACTION FORCES	$\phi 0.381^{\ 0}_{-0.00254}$ BY STEEL GAUGE.	INSERTION FORCE N MAX.	—	—
		EXTRACTION FARCE 0.137 N MIN.	○	○
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE N MAX.	—	—
		EXTRACTION FARCE N MIN.	—	—
MECHANICAL OPERATION (Office Environment)	10000 TIMES INSERTIONS AND EXTRACTIONS. (400-600 cycles per hour)	① CONTACT RESISTANCE: 20 mΩ MAX CHANGE. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	—
VIBRATION	FREQUENCY 10 TO 2000 Hz, SINGLE AMPLITUDE 1.52 mm, 147 m/s^2 AT 4 h, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 100 ns.	○	—
SHOCK	490 m/s^2 DIRECTIONS OF PULSE 11 ms AT 3 TIME FOR 3 DIRECTIONS.	② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	—
CABLE CLAMP ROBUSTNESS (AGAINST CABLE PULL)	APPLYING A PULL FORCE THE CABLE AXIALLY AT 29.4 N MAX.	① NO WITHDRAWAL AND BREAKAGE OF CABLE. ② NO BREAKAGE OF CLAMP.	○	—

REMARKS

FOR REFERENCE ONLY

Subject to change without notice

Unless otherwise specified, refer to MIL-STD-202.

DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
M. Yamane '95.11.28	M. Yamane '95.11.28	'95.11.28	K. Kobayashi '95.11.29	HRS 2.17'04 USA

TO
RF

Note QT:Qualification Test AT:Assurance Test ○:Applicable Test

HRS HIROSE ELECTRIC CO., LTD. | SPECIFICATION SHEET | PART NO. MRF01-J-178

CODE NO.(OLD)	DRAWING NO.	PART NO.	
CL399-8257-8	ELC4-130246	CL313-1102-7	1/2

FORM No.231-1

RF

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT,CYCLIC	EXPOSED AT -10 TO +65 °C, 90-96 % TOTAL 10 CYCLES(240 h) [WITH CONNECTOR ENGAGED]	① CONTACT RESISTANCE: 20 mΩ MAX CHANGE. ② INSULATION RESISTANCE: 100 MΩ MIN.	○	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -65 → 20-35 → +125 → 20-35 °C TIME 30 → MAX5 → 30 → MAX5 min. UNDER 5 CYCLES. [WITH CONNECTOR ENGAGED]	① CONTACT RESISTANCE: 20 mΩ MAX CHANGE. ② INSULATION RESISTANCE: 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	—
DAMP HEAT (STEADY STATE)	EXPOSED AT +40 °C, 90-95 %, 96 h. [WITH CONNECTOR ENGAGED]	① CONTACT RESISTANCE: 20 mΩ MAX CHANGE. ② INSULATION RESISTANCE: 100 MΩ MIN.	○	—
HYDROGEN SULFIDE (TEST STANDARD: JEIDA-38)	EXPOSED IN 3 PPM FOR 96 h, +40 °C, APPROX. 80 % RH. [WITH CONNECTOR ENGAGED]	① CONTACT RESISTANCE: 20mΩ MAX CHANGE. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	—
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. [WITH CONNECTOR ENGAGED]	① NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	—

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
FOR REFERENCE ONLY Subject to change without notice Unless otherwise specified, refer to MIL-STD-202.	M. Yamane '95.11.28	M. Yamane '95.11.28	S. Mitani '95.11.28	K. Kobayashi '95.11.29	HRS 2.17.04 USA

Note QT:Qualification Test AT:Assurance Test ○:Applicable Test

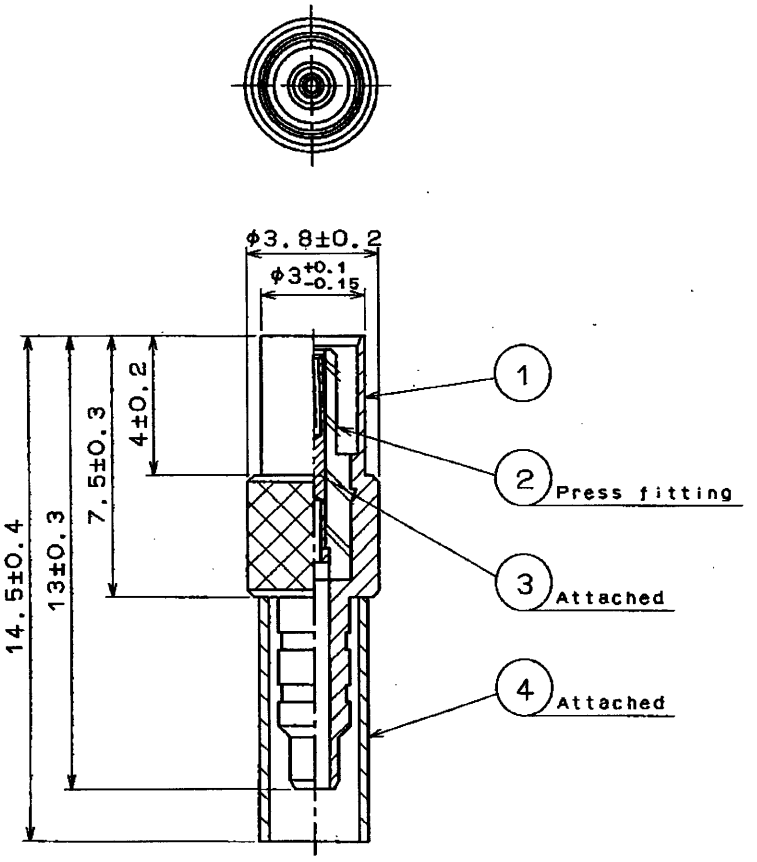
HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO. MRF01-J-178	
CODE NO.(OLD) CL399-8257-8	DRAWING NO. ELC4-130246	PART NO. CL313-1102-7	2/2

TO
RF

FORM No.231-2

RF

	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
1	1	RE-D-2373	T.K	I.M	95.11.06						



FOR REFERENCE ONLY
Subject to change without notice

NO.	MATERIAL	FINISH , REMARKS
4	Copper	Nickel plating
3	Beryllium copper	Gold plating
2	Porytetrafluorethylene	
1	Brass	Gold plating

NO.	MATERIAL	FINISH , REMARKS	NO.	MATERIAL	FINISH , REMARKS

CODE NO. (OLD)	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
CL399-8257-8	M. YAMANE 94.12.01	M. YAMANE 94.12.01	I. MITANI 94.12.01	F. KOBAYASHI 94.12.01	HRS 2.17.04 USA

TO
RF

SCALE 5 : 1
UNITS mm

DRAWING NO. EDC4-130246

PART NO. MRF01-J-178 △1

HRS HIROSE ELECTRIC CO., LTD.

CODE NO. CL313-1102-7

1/1

FORM No. 228 RF