

△	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	△	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△						△					
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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
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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	φ 0.381 ⁰ _{-0.00254} BY STEEL GAUGE.	INSERTION FORCE	N MAX.	-	-
		EXTRACTION FORCE	0.137 N MIN.	○	○
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE	N MAX.	-	-
		EXTRACTION FORCE	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. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		○	-
SHOCK	490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIME FOR 3 DIRECTIONS.	① NO WITHDRAWAL AND BREAKAGE OF CABLE. ② NO BREAKAGE OF CLAMP.		○	-
CABLE CLAMP ROBUSTNESS (AGAINST CABLE PULL)	APPLYING A PULL FORCE THE CABLE AXIALLY AT 29.4 N MAX.			○	-


REMARKS FOR REFERENCE ONLY Subject to change without notice Unless otherwise specified, refer to MIL-STD-202.	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
	<i>m. Yamane</i> 95.11.28	<i>m. Yamane</i> 95.11.28	<i>J. Mitani</i> 95.11.28	<i>Kobayashi</i> 95.11.29	

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

HRS HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO. MRF 01-J-178
CODE NO.(OLD) CL399-8257-8	DRAWING NO. ELC4-130246	PART NO. CL 313-1102-7

TO
RF



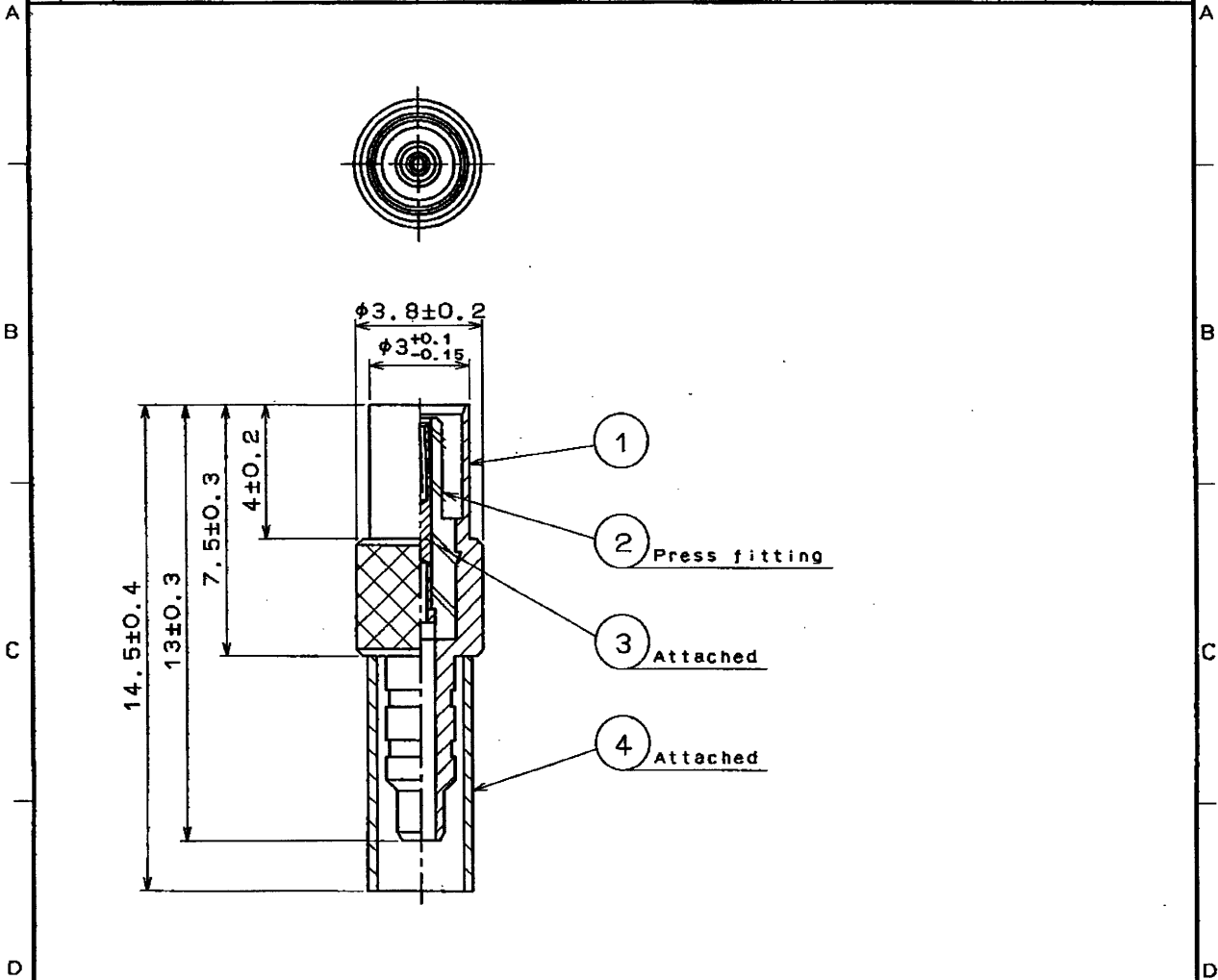
SPECIFICATIONS						
ITEM	TEST METHOD	REQUIREMENTS	QT	AT		
ENVIRONMENTAL CHARACTERISTICS						
DAMP HEAT, CYCLIC	EXPOSED AT -10 TO +65 °C, 90-96 % TOTAL 10 CYCLES(240 h) [WITH CONNECTOR ENGAGED]	① CONTACT RESISTANCE: 20 mΩ MAX CHANGE. ② INSULATION RESISTANCE: 100 MΩ MIN.	○		-	
RAPID CHANGE OF TEMPERATURE	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						
FOR REFERENCE ONLY Subject to change without notice Unless otherwise specified, refer to MIL-STD-202.			DRAWN <i>m. Yamane</i> '95.11.28	DESIGNED <i>m. Yamane</i> '95.11.28	CHECKED <i>J. Mitani</i> '95.11.28	APPROVED <i>K. Kobayashi</i> '95.11.29
Note QT:Qualification Test AT:Assurance Test ○:Applicable Test						
HRS 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			

FORM No.231-2



TO
RF

1	2		3		4				
COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
1	RE-D-2373	T.K.I.M		95.11.06					



FOR REFERENCE ONLY
Subject to change without notice

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

NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS
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CODE NO. (OLD)
CL399-8257-8

DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
M. YAMANE	M. YAMANE	I. MITANI	F. KOBAYASHI	HRS 2.17.04 USA
94.12.01	94.12.01	94.12.01	94.12.01	

DRAWING NO.	PART NO.
EDC4-130246	MRF01-J-178
HRS HIROSE ELECTRIC CO., LTD.	CODE NO. CL313-1102-7
SCALE 5 : 1 UNITS m.m	1/1

TO
RF