

Jul. 1. 2020 Copyright 2020 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
 In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE			
△				.	△				.			
△				.	△				.			
APPLICABLE STANDARD												
RATING	OPERATING TEMPERATURE RANGE	-35 °C TO +85 °C (NOTE 1)			STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C						
	VOLTAGE	250 V AC			APPLICABLE CONTACT							
	CURRENT	3 A			APPLICABLE CONNECTOR							
					APPLICABLE CABLE							
SPECIFICATIONS												
ITEM	TEST METHOD				REQUIREMENTS				Q	T	A	T
CONSTRUCTION												
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.				ACCORDING TO DRAWING.				○	○	
MARKING		CONFIRMED VISUALLY.								○	○	
ELECTRICAL CHARACTERISTICS												
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz).				30 mΩ MAX.				○	—	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD.		20 mV MAX. mA (DC OR 1000 Hz).				mΩ MAX.				—	—	
INSULATION RESISTANCE		500 V DC				1000 MΩ MIN.				○	—	
VOLTAGE PROOF		650 V AC FOR 1 min				NO FLASHOVER OR BREAKDOWN.				○	—	
MECHANICAL CHARACTERISTICS												
CONTACT INSERTION AND EXTRACTION FORCES		BY STEEL GAUGE.				INSERTION FORCE		N MAX.		—	—	
						EXTRACTION FORCE		N MIN.		—	—	
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.				INSERTION FORCE		N MAX.		—	—	
						EXTRACTION FORCE		N MIN.		—	—	
MECHANICAL OPERATION		≥ 20 TIMES INSERTIONS AND EXTRACTIONS				① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				○	—	
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm. — m/s ² AT 2 h FOR 3 DIRECTIONS.				① NO ELECTRICAL DISCONTINUITY OF PARTS. ② CONTACT RESISTANCE: — mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				○	—	
SHOCK		490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.				① NO ELECTRICAL DISCONTINUITY OF PARTS. ② CONTACT RESISTANCE: — mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				○	—	
ENVIRONMENTAL CHARACTERISTICS												
DAMP HEAT (STEADY STATE)		EXPOSED AT 40±2 °C, 90~95%, 96 h.				① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				○	—	
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 → -5~35 → +85 → 5~35 °C TIME 30 → 5 → 30 → 5 min UNDER 5 CYCLES.				① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				○	—	
RESISTANCE TO SOLDERING HEAT		SOLDER TEMPERATURE, IMMERSION, DURATION, °C FOR s.				NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.				—	—	
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, FOR IMMERSION DURATION, °C s.				A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.				—	—	
REMARKS					DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED			
NOTE1 INCLUDE THE TEMPERATURE RISING BY CURRENT.					R. Sasaki	M. Tanaka	J. Oma	H. Yamamoto				
Unless otherwise specified, refer to MIL-STD-1344.					'95.10.12	'95.10.13	'95.10.17	'95.10.23				
Note Q T: Qualification Test A T: Assurance Test ○: Applicable Test												
HRS HIROSE ELECTRIC CO., LTD.					SPECIFICATION SHEET				PART NO.			
									DF1BA-※EP-2.5RC			
CODE NO. (OLD)			DRAWING NO.			CODE NO.			CODE NO. SHALL BE IN ACCORDANCE WITH TABLE.			
CL			ELC4-160595			CL						

TO

