

May.1.2024 Copyright 2024 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
△					△				
△					△				

RATING		OPERATING TEMPERATURE RANGE	-35°C TO +85°C (NOTE1)	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C
	VOLTAGE		100V AC	APPLICABLE CONTACT	—
	CURRENT		AWG28: 1 A, 30AWG: 0.5 A	APPLICABLE CONNECTOR	DF19*-14P-1H
			32AWG : 0.3 A	APPLICABLE CABLE	OUTER DIAMETER: φ 0.5 TO 0.6 mm

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
------	-------------	--------------	----	----

CONSTRUCTION

GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	○	○
MARKING	CONFIRMED VISUALLY.		○	○

ELECTRICAL CHARACTERISTICS

CONTACT RESISTANCE	mA (DC OR 1000 Hz).	mΩ MAX.	—	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV MAX, mA(DC OR 1000 Hz).	mΩ MAX.	—	—
INSULATION RESISTANCE	100V DC.	500 MΩ MIN.	○	—
VOLTAGE PROOF	300V 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	TIMES INSERTIONS AND EXTRACTIONS.	①CONTACT RESISTANCE: mΩ MAX. ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	—	—
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS.	①NO ELECTRICAL DISCONTINUITY OF 1 μs.	○	—
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	②CONTACT RESISTANCE: - mΩ MAX. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	○	—

ENVIRONMENTAL CHARACTERISTICS

RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → 5~35 → +85 → 5~35 °C TIME 30 → 2~3 → 30 → 2~3 min UNDER 5 CYCLES.	①CONTACT RESISTANCE: 30 mΩ MAX. ②INSULATION RESISTANCE: 500 MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	○	—
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2°C, 90~95%, 96h.	①CONTACT RESISTANCE: 30 mΩ MAX. ②INSULATION RESISTANCE: 500 MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	○	—
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, °C, FOR IMMERSION, DURATION, s.	NO DEFORMATION ON CASE OR EXCESSIVE LOOSENESS OF THE TERMINALS.	—	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, °C FOR IN IMMERSION, DURATION, s.	SOLDER SHALL COVER A MINIMUM OF % OF THE SURFACE BEING IMMERSSED.	—	—

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
NOTE 1: INCLUDE THE TEMPERATURE RISING BY CURRENT.					
Unless otherwise specified, refer to MIL-STD-1344.	<i>J. Tashiro</i> '98.8.4	<i>J. Tashiro</i> '98.8.4	<i>M. Nakamura</i> '98.8.6	<i>K. Katayama</i> '98.8.6	

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

HS HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO. DF19-14S-1C
CODE NO.(OLD) CL	DRAWING NO. ELC4-162513	CODE NO. CL 685-0012-9
		1 1

TO