

May.1.2023 Copyright 2023 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.

TO
PCK

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
<b>APPLICATION STANDARD</b>									
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO +85 °C			APPLICABLE CABLE	AWG28			
	VOLTAGE	125 V AC							
	CURRENT	0.5 A							
<b>SPECIFICATIONS</b>									
ITEM		TEST METHOD			REQUIREMENT			QT	AT
<b>CONSTRUCTION</b>									
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING			X	X
MARKING		CONFIRMED VISUALLY						X	X
<b>ELECTRICAL CHARACTERISTICS</b>									
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz)			45 mΩ MAX.			X	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV MAX, 1 mA (DC OR 1000 Hz)			55 mΩ MAX.			X	
INSULATION RESISTANCE		250 V DC			100 MΩ MIN.			X	
VOLTAGE PROOF		300 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN			X	
<b>MECHANICAL CHARACTERISTICS</b>									
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR. (EXCEPT FOR THE PART OF LOCK)			INSERTION FORCE: 71 N MAX. WITHDRAWAL FORCE 7.8 N MIN.			X	
MECHANICAL OPERATION		500 TIMES INSERTIONS AND EXTRACTIONS.			1) CONTACT RESISTANCE: 55 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.			X	
VIBRATION		FREQUENCY: 10 TO 55 Hz, SINGLE SINGLE AMPLITUDE: 0.76 mm FOR 2 h IN 3 DIRECTIONS.			1) NO ELECTRICAL DISCONTINUITY OF 1 μs 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.			X	
SHOCK		490 m/s <sup>2</sup> DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 DIRECTIONS.						X	
<b>ENVIRONMENTAL CHARACTERISTICS</b>									
DAMP HEAT (STEADY STATE)		EXPOSED AT 40±2 °C. 90~95 %. 96 h.			1) CONTACT RESISTANCE: 55 mΩ MAX. 2) INSULATION RESISTANCE:			X	
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55→+15~+35→+85→+15~+35°C TIME 30→10~15→30→10~15 min UNDER 5 CYCLES.			100 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PART.			X	
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.			1) CONTACT RESISTANCE: 55 mΩ MAX. 2) NO HEAVY CORROSION.			X	
HYDROGEN SULPHIDE		EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD: JEIDA-38)						X	
REMARKS									
				DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED	
				<i>K. Kiriyama</i>	<i>H. Yamaguchi</i>	<i>H. Okawa</i>	<i>J. Yoshimura</i>		
				01.07.16	01.07.16	01.07.16	01.07.17		
UNLESS OTHERWISE SPECIFIED, REFER TO MIL-STD-1344.									
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST X: APPLICABLE TEST									
<b>HRS</b> HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET			PART NO. FX2B-80SA-1.27R		
CODE NO.(OLD)		DRAWING NO.		CODE NO.				1	
CL		ELC4-150616		CL 572 - 0630 - 3				1	