

Jun.1.2026 Copyright 2026 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.

APPLICABLE STANDARD						
RATING	OPERATING TEMPERATURE RANGE	-35°C TO +85°C(NOTES 1)	STORAGE TEMPERATURE RANGE	-10°C TO +60°C(NOTES 3)		
	OPERATING HUMIDITY RANGE	20% TO 80%(NOTES 2)	STORAGE HUMIDITY RANGE	40% TO 70%(NOTES 2)(NOTES 3)		
	VOLTAGE	30V AC	APPLICABLE CONNECTOR	DF56※-30S-0.3V(##)		
	CURRENT	AWG#42:0.2A AWG#44:0.15A (NOTES 4) AWG#46:0.1A	APPLICABLE CABLE	THIN COAXIAL CABLE (AWG#42~AWG#46)		
SPECIFICATIONS						
ITEM	TEST METHOD		REQUIREMENTS		QT	AT
CONSTRUCTION						
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		X	X
MARKING	CONFIRMED VISUALLY.				X	X
ELECTRIC CHARACTERISTICS						
CONTACT RESISTANCE	100m A (DC OR 1000 Hz).		CONTACT:80mΩ MAX. SHIELDING:80mΩ MAX.		X	—
INSULATION RESISTANCE	100V DC.		50MΩ MIN.		X	—
VOLTAGE PROOF	100V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		X	—
MECHANICAL CHARACTERISTICS						
MECHANICAL OPERATION	20TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE. SHIELDING RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	—
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, 3 DIRECTIONS × 10 CYCLE.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	—
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.				X	—
ENVIRONMENTAL CHARACTERISTICS						
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 →+85 °C TIME 30 → 30 min UNDER 5 CYCLES. (THE TRANSFERRING TIME OF THE CHAMBER IS 2-3 MINUTE.)		① CONTACT RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE. SHIELDING RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE.		X	—
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.		① CONTACT RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE. SHIELDING RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE. ② INSULATION RESISTANCE: 25 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	—
SULFUR DIOXIDE GAS	EXPOSED IN 10-15 PPM 96h.		NO DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR.		X	—
RESISTANCE TO SOLDERING HEAT	① BONDING TEMPERATURE: 270°C MAX :5 sec MAX 200°C MIN :30 sec MAX ② MANUAL SOLDERING TEMPERATURE: 350°C, 3sec MAX.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		X	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245°C FOR INSERTION DURATION, 5 sec. (Sn-3.0Ag-0.5Cu)		SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.		X	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
△						
REMARKS			APPROVED	TS. SAKATA	12. 06. 12	
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT			CHECKED	HS. OZAWA	12. 06. 12	
NOTE2: NON CONDENSING			DESIGNED	TP. MATSUMOTO	12. 06. 12	
NOTE3: THE TERM "STORAGE" REFERS TO PRODUCTS STORED FOR A LONG PERIOD PRIOR TO MOUNTING AND USE. THE OPERATING TEMPERATURE AND HUMIDITY RANGE COVERS THE NON-CONDUCTING CONDITION OF CONNECTORS AFTER BOARD MOUNTING AND THE TEMPORARY STORAGE CONDITIONS OF TRANSPORTATION, etc			DRAWN	TP. MATSUMOTO	12. 06. 12	
NOTE4: TEMPERATURE RISE OF CONNECTOR BODY ONLY, AND THAT OF CASE IS NOT INCLUDED. Unless otherwise specified, refer to JIS C 5402,IEC60512.						
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-344841-01	
HRS	SPECIFICATION SHEET		PART NO.	DF56-30P-0. 3SD (51)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL662-5617-3-51	△	1/1