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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	-55°C TO + 105°C (NOTE 1)		Storage Temperature range	-10°C TO + 60°C (NOTE 3)		
	Operating Humidity range	20% TO 80% (NOTE 2)		Storage Humidity range	40% TO 70% (NOTE 3)		
	Current	AWG8	45A/pin	Applicable Crimp socket	DF60FS(R)-*S-10.16C(##)		
	Voltage	1000V AC/DC		Applicable cable	UL1283 8AWG		
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		DC 6V MAX, 1A.		2mΩ max.		X	—
MECHANICAL CHARACTERISTICS							
Mechanical operation		30 times insertion and extraction.		1) Contact resistance:2mΩ MAX. 2) No damage, crack, or looseness of parts.		X	—
Vibration		Frequency 10 to 500 HZ, single amplitude 0.75 mm, at 10 cycles, for 3 directions.		1) no electrical discontinuity of 1 μs. 2) no damage, crack, or looseness of parts.		X	—
Shock		490 m/s <sup>2</sup> duration of pulse 11 ms at 3 times for 3 directions.				X	—
Contact extraction force		Pull out the cable after housing fixation.		49N min.		X	—
ENVIRONMENTAL CHARACTERISTICS							
Damp heat (steady state)		Exposed at 40 ± 2 °c, 90 to 95 %, 96 h.		1) Contact resistance:2mΩ MAX. 2) No damage, crack, or looseness of parts.		X	—
Rapid change of temperature		Temperature -55°C→ +105°C Time 30min→ 30min Under 25 cycles. (the transferring time of the tank is 2—3 min) (after leaving the room temperature for 1—2h.)				X	—
Dry heat		Exposed at 105 ± 2°C, 250h (after leaving the room temperature for 1—2h.)				X	—
Cold		Exposed at -55±3°C, 96h				X	—
Remarks Note 1:Include the temperature rising by current. Note 2:No condensing. Note 3:Apply to the unused and packaged product.							
△	COUNT	DESCRIPTION OF REVISIONS		DESIGNED		CHECKED	DATE
△							
Unless otherwise specified , refer to IEC 60512.				APPROVED	SJ. OKAMURA	20231019	
				CHECKED	TT. OHSAKO	20231019	
				DESIGNED	KT. NUMATA	20231018	
				DRAWN	SK. CHIBA	20231018	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC-402083-00-00	
HRS	SPECIFICATION SHEET			PART NO.	DF60S-8SCFA		
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL0680-3081-0-00	△	1/1