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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 ² 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	
	SPECIFICATION SHEET		PART NO.	DF60S-8SCFA	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0680-3081-0-00	