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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	AWG10 AWG12	35A/pin 28A/pin	Applicable Crimp socket	DF60FS(R)-*S-10.16C(##)
	Voltage	1000V AC/DC		Applicable cable	UL1015 10, 12AWG

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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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	-
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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 1.5 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-402623-00-00
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HRS	SPECIFICATION SHEET	PART NO.	DF60S-1012SCFA		
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL0680-3082-0-00	△	1/1