Mar.1.2024 Copyright 2024 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	-55°C to + 85°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)
	Voltage	1000V AC/DC	Applicable connector	DF22-*(D)S-7.92C(28) DF22#-*(D)S-7.92C
	Current	AWG14 : 20A/pin AWG16 : 15A/pin	Applicable cable	UL1430/UL1007 AWG14,16

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	20mV MAX, 1mA (DC OR 1000 Hz).	5mΩ MAX.	X	—
Mechanical characteristics				
Contact insertion and extraction forces	0.8±0.002×1.6±0.002 by steel gauge.	Insertion force 5.0 N MAX. Extraction force 0.3 N MIN.	X	—
Mechanical operation	50 times insertions and extractions.	① Contact resistance: 10 mΩ MAX. ② No damage, crack or looseness of parts.	X	—
Vibration	Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 2 h, for 3 directions.	① No electrical discontinuity of 1 μs. ② No damage, crack or looseness of parts.	X	—
Shock	490 m/s² duration of pulse 11 ms at 3 times for 3 directions.		X	—
Environmental characteristics				
Rapid change of temperature	Temperature -55→ 5 to 35→+85→ 5 to 35 °c Time 30→ 5 max → 30→ 5 max min Under 5 cycles.	① Contact resistance: 10 mΩ MAX. ② No damage, crack or looseness of parts.	X	—
Damp heat (Steady state)	Exposed at 40 ± 2 °c, 90 to 95 %, 96 h.	① Contact resistance: 10 mΩ MAX. ② No damage, crack or looseness of parts.	X	—

Remarks △2
Note 1:Include the temperature rising by current.
Note 2:No condensing.
Note 3:Applicable to unused product packaging.

	Count	Description of revisions	Designed	Checked	Date
△2	1	DIS-H-00005924	TS.KUMAZAWA	SZ.ONO	20200428

Unless otherwise specified , refer to IEC 60512.

Approved	KI.AKIYAMA	20130613
Checked	HK.UMEHARA	20130613
Designed	ST.SATO	20130613
Drawn	ST.SATO	20130613

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

Drawing no. ELC-163659-00-01

HRS	Specification sheet	Part no.	DF22-1416SCFA	
	Hirose electric co., ltd.	Code no.	CL680-1085-6-00 △2	1/1

FORM HD0011-2-1