Aug.1.2026 Copyright2026 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 or our correspondents.

Applicable standard							
Rating	Operating temperature range	-35°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	AC/DC 100V			Applicable connector △1	DF50A-*P-1V(##) DF50A-*P-1H(##)	
	Current △1	Contact	2	3to16	Applicable Contact △1	DF50-26SCFA(##) DF50-2830SCFA(##) DF50K-2830SCFA(##) DF50-3032SCFA(##)	
		AWG26	2.0A	1.0A			
		AWG28	2.0A	1.0A			
		AWG30	0.9A				
		AWG32	0.7A				

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				
Insulation resistance	100V DC.	500MΩ MIN.	X	—
Voltage proof	300V AC for 1 min.	No flashover or breakdown.	X	—
Mechanical characteristics				
Mechanical operation	30times insertions and extractions.	No damage, crack or looseness of parts.	X	—
Vibration	Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for each, for 3 directions.		X	—
Shock	490 m/s^2 duration of pulse 11 ms At 3 times for 3 directions.		X	—
Environmental characteristics				
Damp heat (Steady state)	Exposed at 40 ± 2 °c, 90 to 95 %, 96 h.	① Insulation resistance: 100MΩ MIN. ② No damage, crack or looseness of parts.	X	—
Rapid change of temperature	Temperature -55→+85℃ Time 30→ 30min. Under 5 cycles. (The transferring time of the tank is 2 to 3 min)	① Insulation resistance: 500MΩ MIN. ② No damage, crack or looseness of parts.	X	—

Remarks
Note 1: Include the temperature rising by current.
Note 2: No condensing.
Note 3: Apply to the condition of long term storage for unused products before harness assembly.
After harness assembly, operating temperature and humidity range is applied for interim storage during transportation.

	Count	Description of revisions	Designed	Checked	Date
△1	3	DIS-H-00005434	HT.SATO	SZ.ONO	20191028

Unless otherwise specifid , refer to IEC 60512.

Approved	KI.AKIYAMA	20100706
Checked	OM.MIYAMOTO	20100706
Designed	TT.OHSAKO	20100705201 00706
Drawn	TT.OHSAKO	20100705

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

Drawing no.		ELC-332936-00-00		
HRS	Specification sheet	Part no.	DF50A-*S-1C	
	Hirose electric co., ltd.	Code no.	CL665- △1	1/1

FORM HD0011-2-1