

Feb.1.2026 Copyright 2026 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 contact	DF22 (A) -1416SC (F) A DF22A-1012SC (F) A				
	Current (*1) rating	Contact	1	2, 3	4, 5	Current (*2) rating of UL standards (At ambient temp. 25°C) (Note 4)	Contact	1	2, 3	4, 5	
	AWG10	30A/pin	25A/pin	22A/pin	AWG10		43A/pin	38.5A/pin	33.5A/pin		
	AWG12	25A/pin	20A/pin	18A/pin	AWG12		38A/pin	32A/pin	26A/pin		
	AWG14	20A/pin	18A/pin	15A/pin	AWG14		26A/pin	23A/pin	22A/pin		
	AWG16	15A/pin	15A/pin	13A/pin	AWG16		21A/pin	21A/pin	19A/pin		
	Voltage Rating	Current Rating			Overvoltage Category			IP- Degree			
UL	600V AC/DC	See table above right (*2)			—			—			
C-UL	600V AC/DC	See table above left (*1) (Temp. rise up 30°C MAX)			—			—			
TUV	600V AC/DC	See table above left (*1)			II			IP00			
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	1000V DC.				1000MΩ MIN.				X	—	
Voltage proof	2500V AC for 1 min.				No flashover or breakdown.				X	—	
Mechanical characteristics											
Mechanical operation	30 times insertions and extractions.				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.								X	—	
Shock	490 m/s ² 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 Insulation resistance: 1000MΩ MIN. ② No damage, crack or looseness of parts.				X	—	
Damp heat (Steady state)	Exposed at 40 ± 2 °C, 90 to 95 %, 96 h.				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: Applicable to unused product packaging.											
Note 4: Indicates the current that corresponds to the RTI value (temperature at which performance is halved) of the resin when the ambient temperature is 25°C.											
	Count	Description of revisions			Designed		Checked		Date		
	2	DIS-H-00022594			TS. KUMAZAWA		SZ. ONO		20250227		
Unless otherwise specified, refer to IEC 60512.							Approved	TY. OMA		20051228	
							Checked	HK. UMEHARA		20051228	
							Designed	IO. DENPOUYA		20051226	
							Drawn	AK. MIURA		20051216	
Note QT: Qualification Test AT: Assurance Test X: Applicable Test					Drawing no.		ELC-308611-28-01				
	Specification sheet				Part no.		DF22R-*S-7. 92C (28)				
	Hirose electric co., ltd.				Code no.		CL680-			1/1	