

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	38A/pin	33A/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			
	1	DIS-H-00008543				TS. KUMAZAWA		SZ. ONO		20210401			
Unless otherwise specified, refer to IEC 60512.								Approved	KJ. KATAYOSE		20050105		
								Checked	TY. OMA		20050105		
								Designed	HK. UMEHARA		20050105		
								Drawn	HK. UMEHARA		20050105		
Note QT: Qualification Test AT: Assurance Test X: Applicable Test						Drawing no.		ELC-163720-00-05					
	Specification sheet					Part no.		DF22-*S-7. 92C (28)					
	Hirose electric co., ltd.					Code no.		CL680			1/1		