

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	43A/pin	38A/pin	33A/pin		AWG10	30A/pin	25A/pin	22A/pin		
AWG12		38A/pin	32A/pin	26A/pin	AWG12		25A/pin	20A/pin	18A/pin			
AWG14		26A/pin	23A/pin	22A/pin	AWG14		20A/pin	18A/pin	15A/pin			
	AWG16	21A/pin	21A/pin	19A/pin		AWG16	15A/pin	15A/pin	13A/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	TY. OMA			20070122	
							Checked	HK. UMEHARA			20070118	
							Designed	TS. KUMAZAWA			20070117	
							Drawn	AK. MIURA			20070117	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test					Drawing no.		ELC-164788-00-01					
	Specification sheet				Part no.		DF22B-*S-7. 92C					
	Hirose electric co., ltd.				Code no.		CL680-				1/1	