

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 cable	AWG14 to 16	
	Current (*1) rating	AWG14:20A/pin, AWG16:15A/pin		Applicable contact 	DF22 (A) -1416PC (F) A	
	Voltage Rating	Current Rating		Overvoltage Category		IP- Degree
UL	600V AC/DC	AWG14:26A/pin, AWG16:21A/pin (Note 4)		—		—
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
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.		No damage, crack or looseness of parts.		X —
Damp heat (Steady state)		Exposed at 40 ± 2 °C, 90 to 95 %, 96 h.				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-00008679	TS. KUMAZAWA	SZ. ONO	20210407	
Unless otherwise specified, refer to IEC 60512.				Approved	HS. OKAWA	20170822
				Checked	TS. FUKUSHIMA	20170822
				Designed	MI. SAKIMURA	20170822
				Drawn	MI. SAKIMURA	20170822
Note QT: Qualification Test AT: Assurance Test X: Applicable Test			Drawing no.	ELC-163565-00-00		
	Specification sheet		Part no.	DF22A-1EP-7. 92C		
	Hirose electric co., Ltd.		Code no.	CL0680-1053-0-00		1/1