





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	UL1430, 1015:AWG14, 16 UL1015:AWG10, 12	
	Current (*1) rating	AWG10:25A/pin, AWG12:20A/pin AWG14:18A/pin, AWG16:15A/pin		Applicable contact 	DF22 (A) -1416SC (F) A DF22A-1012SC (F) A	
	Voltage Rating	Current Rating		Overvoltage Category	IP- Degree	
UL	600V AC/DC	AWG10:38A/pin, AWG12:32A/pin AWG14:23A/pin, AWG16:21A/pin (Note 4)		—	—	
C-UL	600V AC/DC	See table above left(*1) (Temp.rise up 30°C MAX)		—	—	
TÜV	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
	1	DIS-H-00008543		TS. KUMAZAWA		SZ. ONO
Unless otherwise specified , refer to IEC 60512.				Approved	K.J. KATAYOSE	20210401
				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-163019-28-04
	Specification sheet			Part no.		DF22-2S-7. 92C (28)
	Hirose electric co., ltd.			Code no.		CL0680-1004-4-28  1/1