

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 connector	DF22-*(D) S-7. 92C (28)					
	Current(* 1)	AWG14 : 20A AWG16 : 15A			DF22#-*(D) S-7. 92C					
				Applicable cable	UL1015 AWG14, 16					
	Rated voltage	Rated current		Overvoltage category	IP-Protection method					
UL	AC 600V	AWG14:26A/AWG16:21A (At ambient temp. 25°C)		—	—					
C-UL	AC 600V	See above (*1) (Temp. rise up 30°C MAX)		—	—					
TÜV	AC 600V	See above (*1)		II	IPOO					
Specifications										
Item	Test method			Requirements						
Construction										
General examination	Visually and by measuring instrument.			According to drawing.						
Marking	Confirmed visually.				X X					
Electric characteristics										
Contact resistance	20mV MAX, 1mA (DC OR 1000 Hz).			5mΩ MAX.						
Mechanical characteristics										
Contact insertion and extraction forces	0.8±0.002 × 1.6±0.002 by steel gauge.			Insertion force 5.0 N MAX. Extraction force 0.3 N MIN.	X —					
Mechanical operation	50 times insertions and extractions.			① Contact resistance: 10 mΩ MAX. ② 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.			① No electrical discontinuity of 1 μs. ② No damage, crack or looseness of parts.	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 Contact resistance: 10 mΩ MAX. ② No damage, crack or looseness of parts.	X —					
Damp heat (Steady state)	Exposed at 40 ± 2 °C, 90 to 95 %, 96 h.			① Contact resistance: 10 mΩ MAX. ② No damage, crack or looseness of parts.	X —					
Remarks										
Note 1:Include the temperature rising by current. Note2:No condensing Note3: Apply to the condition of long term storage for unused products before harness assembly. After harness assembly, operation temperature and humidity range is applied for interim storage during transportation.										
	Count	Description of revisions		Designed	Checked					
△					Date					
Unless otherwise specified, refer to IEC 60512.				Approved	HS. OKAWA					
				Checked	SZ. ONO					
				Designed	TS. KUMAZAWA					
				Drawn	TS. KUMAZAWA					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				Drawing no.						
				ELC-388480-00-00						
HS	Specification sheet			DF22A-1416SCA						
	Hirose electric co., ltd.			CL680-1191-0-00	△ 1/1					