

Applicable standard					
Rating	Operating temperature range	-35°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	AC/DC 100V	Applicable connector	DF50-20DP-1V (##) DF50-20DP-1H (##)	
	Current 	AWG 26 : 1.0 A AWG 28 : 1.0 A AWG 30 : 0.9 A AWG 32 : 0.7 A	Applicable Contact 	DF50-26SCFA (##) DF50-2830SCFA (##) DF50K-2830SCFA (##) DF50-3032SCFA (##)	
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		100V DC.		500MΩ MIN.	X -
Voltage proof		300V AC for 1 min.		No flashover or breakdown.	X -
Mechanical characteristics					
Mechanical operation 		30times insertions and extractions.		No damage, crack or looseness of parts.	X -
Vibration		Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for each, for 3 directions.			X -
Shock		490 m/s ² duration of pulse 11 ms At 3 times for 3 directions.			X -
Environmental characteristics					
Damp heat (Steady state)		Exposed at 40 ± 2 °c, 90 to 95 %, 96 h.		① Insulation resistance: 100MΩ MIN. ② No damage, crack or looseness of parts.	X -
Rapid change of temperature		Temperature -55→+85°C Time 30→ 30min. Under 5 cycles. (The transferring time of the tank is 2 to 3 min)		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: Apply to the condition of long term storage for unused products before harness assembly. After harness assembly, operating temperature and humidity range is applied for interim storage during transportation.					
	Count	Description of revisions	Designed	Checked	Date
	3	DIS-H-00005496	HT. SATO	SZ. ONO	20191120
Unless otherwise specifid , refer to IEC 60512.				Approved	OM. MIYAMOTO
				Checked	OM. MIYAMOTO
				Designed	TT. OHSAKO
				Drawn	TT. OHSAKO
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing no.		ELC-339520-00-00
	Specification sheet		Part no.	DF50S-20DS-1C	
	Hirose electric co., ltd.		Code no.	CL665-0020-2-00	 1/1