



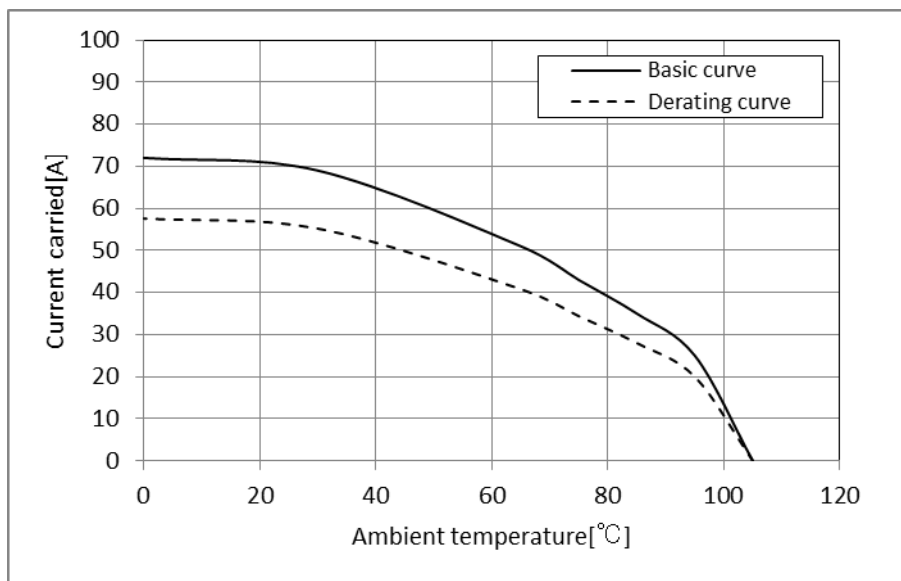


Applicable standard								
Rating	Operating temperature range	-55°C to + 105°C (Note 1)		Storage temperature range	-10°C to + 60°C (Note 3)			
	Operating humidity range	20% to 80% (Note 2)		Storage humidity range	40% to 70% (Note 3)			
	Current (*1)	AWG8	45A/pin		Applicable contact	DF60-8PC (F) A (##)		
		AWG10	35A/pin			DF60-1012PC (F) A (##)		
AWG12		28A/pin		Voltage	1000V AC/DC			
	Rated voltage	Rated current		Overvoltage category	IP- degree			
UL	600V AC/DC	AWG8: 65A/pin, AWG10: 55A/pin, AWG12: 40A/pin (At ambient temp. 25°C) (Note 5)		—	—			
C-UL	600V AC/DC	See above(*1) (Temp. rise up 30°C MAX)		—	—			
TÜV	600V AC/DC	See above(*1)		III	IP20 (Note 7)			
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	3000V AC for 1 min.			No flashover or breakdown.		X	—	
Mechanical characteristics								
Vibration	Frequency 10 to 500 Hz, total amplitude 1.5 mm, acceleration of 98 m/s ² , at 2 h, for 3 directions.			No damage, crack or looseness of parts.		X	—	
Shock	490 m/s ² duration of pulse 11 ms at 3 times for 3 directions.			No damage, crack or looseness of parts.		X	—	
Contact extraction force	Pull out the cable after housing fixation.			49N MIN		X	—	
Environmental characteristics								
Damp heat (Steady state)	Exposed at 40 ± 2 °C, 90 to 95 %, 96 h.			1) Insulation resistance: 1000MΩ MIN. 2) No damage, crack or looseness of parts.		X	—	
Rapid change of temperature	Temperature -55°C → +105°C Time 30min → 30min Under 25 cycles. (The transferring time of the tank is 2-3 min) (After leaving the room temperature for 1-2h.)			1) Insulation resistance: 1000MΩ MIN. 2) No damage, crack or looseness of parts		X	—	
Dry heat	Exposed at 105 ± 2°C, 250h (After leaving the room temperature for 1-2h.)			1) Insulation resistance: 1000MΩ MIN. 2) No damage, crack or looseness of parts		X	—	
Cold	Exposed at -55 ± 3°C, 96h			1) Insulation resistance: 1000MΩ MIN. 2) No damage, crack or looseness of parts		X	—	
Remarks								
Note1: Include the temperature rising by current.								
Note2: No condensing.								
Note3: Apply to the unused product on packaged condition.								
	Count	Description of revisions		Designed	Checked	Date		
	1	DIS-H-00018494		TS. KUMAZAWA	SZ. ONO	20230616		
Unless otherwise specified, refer to IEC 60512.				Approved	SJ. OKAMURA	20220214		
				Checked	TT. OHSAKO	20220214		
				Designed	SN. MIWA	20220210		
				Drawn	SN. MIWA	20220210		
Note QT: Qualification Test AT: Assurance Test X: Applicable Test				Drawing no.		ELC-386588-00-00		
	Specification sheet			Part no.	DF60F-2EP-10.16C			
	Hirose electric co., ltd.			Code no.	CL0680-4009-0-00		1/2	

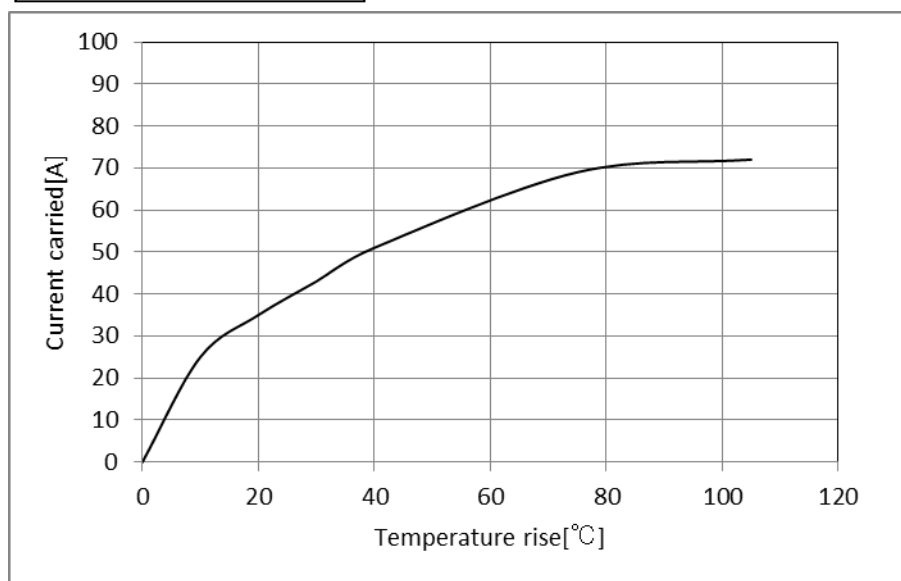
- (Note 4) Derating curve takes manufacturing tolerances into consideration as well as uncertainties in temperature measurement and the measuring set up and is derived from the basic curve multiplied by 0.8 calculation.
- (Note 5) Indicates the current that corresponds to the RTI value (temperature at which performance is halved) of the resin when the ambient temperature is 25°C.
The value of rated current differs depending on the ambient temperature.
It is recommended to use the product within the derating curve zone.
- (Note 6) Measurement method of derating curve is shown below.
- Test specimen: Unused DF60-6P-10.16DS(27).
Unused DF60-6S-10.16C
Unused DF60-8SCFA
 - Test cable spec: AWG 8
 - Test condition: Turn on electricity under the static state and measure.
(Test report # TR680E-20802)
- (Note 7) Refer to "ETAD-H0653-00".

[Reference]

Derating curve



Temperature rise curve



Note	QT:Qualification Test AT:Assurance Test X:Applicable Test	Drawing no.	ELC-386588-00-00		
HRS	Specification sheet	Part no.	DF60F-2EP-10.16C		
	Hirose electric co., ltd.	Code no.	CL0680-4009-0-00		2/2