Applicable	e sta	ndard													
Operating		ating			5°C to + 105°C (Note 1)		_	Storage temperature rang		-10° C to + 60° C			(Note 3	3)	
Rating	Operating humidity range			20% to 80% (Note 2) Storage					, ~	1	40% to	70% (N	ote 3)		
9					DF60F-2S-10, 16C (#		humidity Current			1		:45 A/pir			
		Applicable connector			DF60-*SCFA (##)	1117	Carrent	("1)			AWG10	:35 A/pir	า		
	Volta				1000V AC/DC					<u> </u>		:28 A/pir			
Rated volt			•				Overvoltage category IP- deg				P- degre	ee			
			600V AC/DC 600V AC/DC		65A MAX/pin (At ambient temp. 25°C) (N See above(*1) (Temp. rise up 30°CM			, , , , , , , , , , , , , , , , , , ,							
TÜV			OOV AC/DC		See above (*1)			Ш				IP20			
					Sp	ecifica	tions	;							
lt	em				Test method				F	Require	ements		QT	AT	
Constructi	on														
General examination			Visually and by measuring instrument.					Accord	ing to draw	<i>i</i> ng.			Х	Х	
Marking	_		Confirmed	visually.									X	Χ	
Electric ch		teristics	DC6V M	ΔΥ 1Λ			1	2mΩ l	ΜΔΥ				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	_	
Contact resistance Millivolt level method			DC6V MAX, 1A					∠mΩ l	VIAA.				X	-	
Insulation res		ce	1000V D	C.				1000N	1ΩMIN.				Х	_	
Voltage proo	f		3000V A	C for 1 m	nin.			No flash	over or brea	kdown.			Х	_	
Mechanica															
Mechanical o	perat	ion	30 times insertions and extractions.					,	ct resistance:		MAX.		X	_	
Vibration			Frequency 10 to 500 Hz, total amplitude 1.5 mm, acceleration					No damage, crack or looseness of parts. No electrical discontinuity of 1 µs.				+			
			of 98 m/s ² , at 2 h, for 3 directions.								ness of parts.		Х	_	
Shock			490 m/s ² duration of pulse 11 ms at 3 times for 3 directions.					No electrical discontinuity of 1 µs. No damage, crack or looseness of parts.				X	_		
Environme	ental	charact	eristics					,	3,7,1,11						
Damp heat				t 40 ± 2	2 °c, 90 to 95 %, 96 h				ct resistance:		nΩ MAX.				
(Steady state)								2) Insulation resistance: 1000MΩ MIN.3) No damage, crack or looseness of parts.				X	_		
Rapid change of			Temperature -55°C → +85°C Time 30min → 30min					1) Contact resistance: $2m\Omega$ MAX. 2) Insulation resistance: $1000M\Omega$ MIN.				X			
temperature			Under 25 cycles.					3) No damage, crack or looseness of parts							
			,	•	e of the tank is 2-3 min	•									
Dry heat	Dry heat		(After leaving the room temperature for 1-2h.) Exposed at 105 ± 2°C, 250h					1) Contact resistance: 2mΩ MAX.				X	<u> </u>		
2.,			(After leaving the room temperature for 1-2h.)					2) Insulation resistance: 1000MΩ MIN.3) No damage, crack or looseness of parts							
Cold	Cold		Exposed at -55 ± 3°C, 96h					1) Contact resistance: 2mΩ MAX.					-		
								2) Insulation resistance: 1000MΩ MIN.3) No damage, crack or looseness of parts					X		
Resistance to soldering								Such as impaired function ,no deformation of case of				f			
heat			Solder temperature : 260°C for Immersion.duration : 10 sec .					excessive looseness of the terminals.				X	_		
			ımmersı 2)Manual s		on: 10 sec.										
			Solderin	g iron ten	nperature : 350±10°	С									
			Solderin No stren	_											
Solderability			No strength on contact. Soldered at solder temperature,					Solder shall cover a minimum of				X	-		
			245°c for insertion duration, 5sec.					95 % of the surface being immersed.							
Note1: Include		•	ising by cui	rent.											
Note2: No cond Note3: Apply to	•	-	uct on pack	aged cor	ndition.										
				iption of revisions Desi			Desig	gned			Checked		Da	Date	
A				DIS-H-00018494 TS. KUM, refer to IEC 60512.				MAZAWA Approved		SZ. ONO			2023	30616	
			d, refer t							d				20214	
								Checked		d	TT. OHSAKO			20220214	
								Designed		d				20210	
			-				Drawn		_	L			20210		
Note QT:Qualification Test AT:As			AT:Ass	ssurance Test X:Applicable Test			Drawing no.		ELC-386586-50			50-00)		
HS.		Specification sheet				Part	no.		F60F-2P-10. 16DSA (50			50)			
							O = -1	0.00		620_	80-4007-0-50		A	1/2	
ORM HD0011-	<u> </u>		036	CICCII	10 00., Ita.		Code	HO.	ULU	000-	1 00/-0-0	JU	737	1/4	

(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.

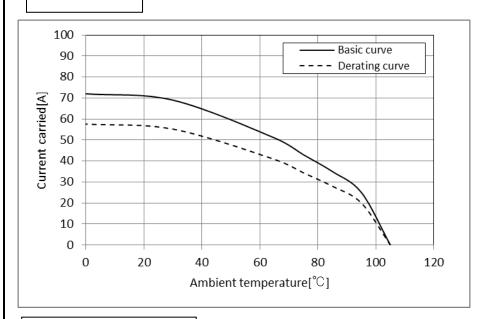
- Test specimen:Unused DF60-6P-10.16DS(27).
 - Unused DF60-6S-10.16C

Unused DF60-8SCFA

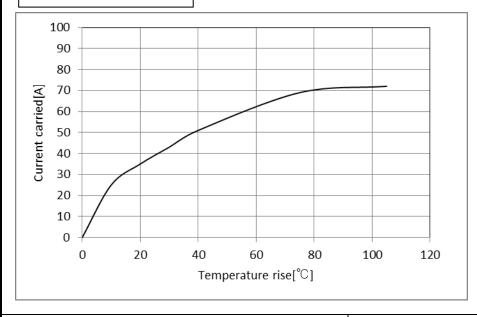
- Test cable spec:AWG 8
- Test condition: Turn on electricity under the static state and measure.
 (Test report # TR680E-20802)

[Reference]

Derating curve



Temperature rise curve



Note QT:	Qualification Test AT:Assurance Test X:Applicable Test	Drawin	g no.	ELC-386586-50-00			
HS	Specification sheet	Part no.	DF60F-2P-10. 16DSA (50)				
	Hirose electric co., ltd.	Code no.	CL068	0-4007-0-50	\triangle	2/2	