Applicable											
Operating temperature			55° C to + 105° C (No	C to + 105°C (Note 1)		Storage temperature range		-10°C to + 60°C (Note 3)			3)
Rating	Operating humidity range Applicable connector 2		20% to 80% (Note 2) Stora		Storage		•	40% to 70	% (No	te 3)	
						lity range nt (*1)			AWG 8:45 A/pin AWG10:35 A/pin		
			1000V AC/DC					AWG12:2	8 A/pin		
<u>/2</u> \		Rated voltage		d current			0verv	vervoltage category IP-		- degree	
UL C_III		<u>_</u>	600V AC/DC 65A MAX/pin (At ambient								
C-UL TÜV		600V AC/DC	600V AC/DC See above (*1) (Temp. rise 600V AC/DC See above (*1)			JD 30°CMAX)		<u> </u>		IP20	
		•	Sne	cifica	tions	:					
I+.	em		Test method	011100		, 		Requirements		QT	A [·]
Constructi			restilletilou				- 1	requirements		Qı	
General examination		Visually and by measuring instrument.				Accord	ing to draw	ving.		Х	>
Marking		Confirmed visu	Confirmed visually.				· ·			X	>
Electric ch	aracterist	tics	•							1 / `	<u> </u>
Contact resistance Millivolt level method			DC6V MAX, 1A				$2m\Omega$ MAX.				-
Insulation resistance		1000V DC.				1000N	1Ω MIN.			Х	-
Voltage proo	f	3000V AC fo	3000V AC for 1 min.				over or brea	kdown.		Х	-
Mechanica	al charact	eristics				<u>I</u>					
Mechanical operation		30 times inse	30 times insertions and extractions.				 Contact resistance: 2mΩ MAX. No damage, crack or looseness of parts. 				_
Vibration		of 98 m/s ² , at 2	Frequency 10 to 500 Hz, total amplitude 1.5 mm, acceleration of 98 m/s², at 2 h, for 3 directions.				1) No electrical discontinuity of 1µs. 2) No damage, crack or looseness 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.			Х	_
Environme	ental char	acteristics									
Damp heat (Steady state	e)	Exposed at 40	± 2 °c, 90 to 95 %, 96 h.			2) Insula		$2m\Omega$ MAX. ee: $1000M\Omega$ MIN. or looseness of parts.		Х	_
Rapid change of			Temperature -55°C → +85°C				ct resistance:	2mΩ MAX. e: 1000MΩ MIN.		Х	
temperature		Under 25 cycle	Time 30min→ 30min Under 25 cycles. (The transferring time of the tank is 2-3 min)				3) No damage, crack or looseness of parts				
		·	(After leaving the room temperature for 1-2h.)								
Dry heat			Exposed at 105 ± 2°C, 250h (After leaving the room temperature for 1-2h.)				 Contact resistance: 2mΩ MAX. Insulation resistance: 1000MΩ MIN. No damage, crack or looseness of parts 				-
Cold		Exposed at -55	Exposed at -55 ± 3°C, 96h			 Contact resistance: 2mΩ MAX. Insulation resistance: 1000MΩ MIN. 				Х	-
Resistance to soldering		1)Solder bath n	1)Solder bath method				No damage, crack or looseness of parts Such as impaired function ,no deformation of case of				
heat		Solder temporal solution in the solution in th	Solder temperature : 260°C for Immersion,duration : 10 sec .					s of the terminals.	3000 OI	Х	-
		Manual solde Soldering iro	ring n temperature : 350±10°C								
		Soldering tim									
Solderability			No strength on contact. Soldered at solder temperature,			Solder shall cover a minimum of X					<u> </u>
			245°c for insertion duration, 5sec.				95 % of the surface being immersed.				
Remarks Note1: Include Note2: No cond		ure rising by current									
	•	product on package	d condition.								
Coun	t	Description	of revisions		Desig	esigned Checke		Checked		Date	
2			DIS-H-00018494 TS. KUM fid , refer to IEC 60512.			Approved Checked				2023	
Unless othe	erwise spe	citid, reter to IE									20220214
									TT. OHSAKO		2021
							Designe			2022	
			T			Drawn		SN. MIWA		2022	
	ualification [*]		est AT:Assurance Test X:Applicable Test			Drawing no. ELC-38658)	
HS			ectric co., ltd.		Part					· I	1/2
		1 111026 616	out to to., ita.		Code	no.	ULU	680-4010-0-50	, ,		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.

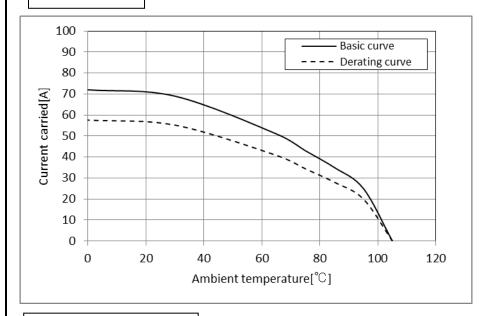
It is recommended to use the product within the derating curve zone.

(Note 6) Measurement method of derating curve is shown below.

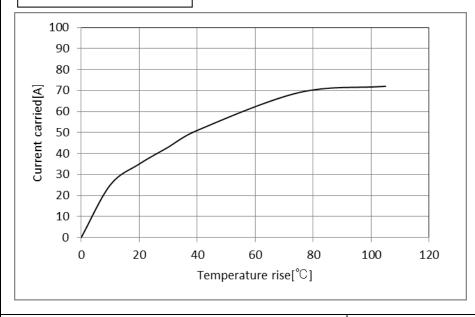
- Test specimen:Unused DF60-6P-10.16DS(27).
 - Unused DF60-6S-10.16C
 - Unused DF60-8SCFA
- Test cable spec:AWG 8
- Test condition: Turn on electricity under the static state and measure.
 (Test report # TR680E-20802)

[Reference]

Derating curve



Temperature rise curve



Note QT:C	Qualification Test AT:Assurance Test X:Applicable Test	Drawin	g no.	ELC-386589-50-00			
HS	Specification sheet	Part no.	DF6	OFR-2P-10. 16DSA (50)			
1.0	Hirose electric co., ltd.	Code no.	CL068	0-4010-0-50	A	2/2	