Applicable	e sta	ndard											
Operating temperature rai		nge	-55°	C to + 105°	C (Note 1)	Storage tempera	ature rang	je	-10°C to +	60°C (N	ote 3	3)	
Rating	Operating		Stora		Storage	ge				to 3)			
		Applicable connector				t(*1) 42 A		1. 1. 1.					
				DF60-*SCFA Voltage									
Rated		ted voltage				Overvoltage category IP-			degre	е			
		600V AC/DC	AC/DC 55A(At ambient to		mbient temp.25°	25°C) (Note 5)		_			_		
		600V AC/DC		See above(*1)(Temp. rise up 30°CM		MAX)	_						
TÜV 60		600V AC/DC							IP20				
						Specifica	ations	3					
It	em				Test method	od			Re	equirements		QT	АТ
Construction													
General examination		Visually and by measuring instrument.			According to drawing.				X	Х			
Marking Con			nfirmed visually.							Χ	Χ		
Electric ch		teristics						1					
	Contact resistance Millivolt level method		DC6V MAX, 1A			2mΩ	MAX.			Х	_		
Insulation resistance		1000V DC.			1000MΩ MIN.				Х	_			
Voltage proof		3000V AC for 1 min.			No flashover or breakdown.				X	_			
Mechanica	al cha	aracteri	stics									1	
Mechanical of			30 times insertions and extractions.				① Contact resistance: 2mΩ MAX.				V		
\/ibration	VPI C		Frequency 10 to 500 Hz, total amplitude 1.5 mm, acceleration				1		or looseness of parts.		Х	_	
Vibration		of 98 m/s ² , at 2 h, for 3 directions.				 No electrical discontinuity of 1μs. No damage, crack or looseness of parts. 				Х	_		
Shock	Shock		490 m/s ² duration of pulse 11 ms at 3 times for 3 directions.			 No electrical discontinuity of 1μs. No damage, crack or looseness of parts. 			Х				
Environme	ntal	charac	 teristics					② Nod	amage, crack	or looseness of parts.		^	_
Damp heat	Ji itai	onarao		at 40 =	± 2 °c, 90 to 9	95 %. 96 h.		① Con	tact resistar	nce: 2mΩ MAX			
(Steady state)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			 (2) Insulation resistance: 1000MΩ MIN. (3) No damage, crack or looseness of parts. 			X	-				
Rapid chang	e of		Temperature -55°C→ +85°C			① Contact resistance: 2mΩ MAX.							
temperature	temperature		Time 30min→ 30min			② Insulation resistance: 1000MΩ MIN.				X	_		
			Under 25 cycles. (The transferring time of the tank is 2-3 min)				③ No damage, crack or looseness of parts						
(A		,	(After leaving the room temperature for 1-2h.)										
		Exposed at 105 ± 2°C, 250h (After leaving the room temperature for 1-2h.)			① Contact resistance: $2m\Omega$ MAX.				Х	_			
		(After leaving the room temperature for 1-2n.)				 Insulation resistance: 1000MΩ MIN. No damage, crack or looseness of parts 							
Resistance to soldering		①Solder bath method 1			Such as impaired function ,no deformation of								
heat		Solder temperature : 260°C for Immersion,duration : 10 sec .			case of excessive looseness of the terminals.				X	_			
			2Manual	,							<u> </u>		
			Soldering iron temperature : 350±10°C										
				g time :									
			rength on contact. d at solder temperature,			Solder shall cover a minimum of			Х	_			
245°C			for insertion duration, 5sec.			95 % of the surface being immersed.							
Remarks Note1: Include	the te	mperature	rising by cu	rrent.									
Note2: No con		•				t- b-f							
			•	•	•	ts before mount on nge is applied for		orage du	ring transport	ation.			
Coun	ıt		Description (n of revisions Desi		gned		Checked		Date		
⚠ 3				H-0000			TS. MIYAKI			SZ. ONO		20191028	
Unless other	erwis	e specifi			IEC 60512.			Approved	1	IA	2018		
									Checked	ST. WAD	A	2018	0316

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TT. OHSAKO

TT. OHSAKO

DF60FR-3P-10. 16DSA (50)

CL680-4004-0-50

ELC-379290-50-00

Designed

Drawn

Drawing no.

Part no.

Code no.

FORM	HD0011-	-2-1

QT:Qualification Test AT:Assurance Test X:Applicable Test

Specification sheet

Hirose electric co., Itd.

(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.

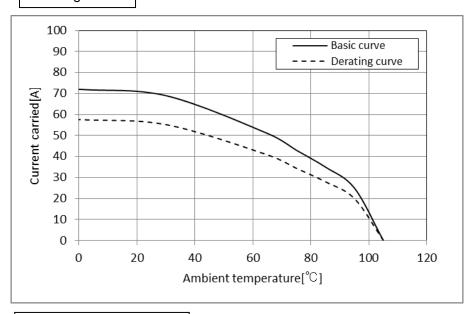
Test specimen:Unused DF60-6P-10.16DS(27).
 Unused DF60-6S-10.16C

Unused DF60-8SCFA

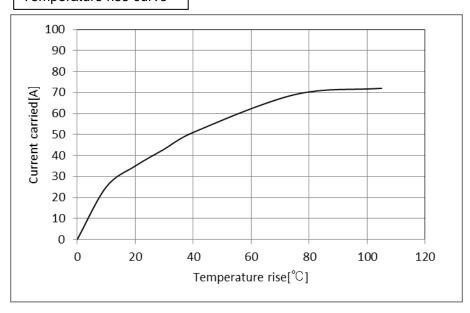
- Test cable spec:AWG 8
- Test condition: Turn on electricity under the static state and measure. (Test report # TR680E-20802)

[Reference]

Derating curve



Temperature rise curve



Note QT:Qu	ualification Test AT:Assurance Test X:Applicable Test	Drawin	g no.	ELC-379290-50-00		
HS	Specification sheet	Part no. DF60FR-3P-10. 16DSA (50)				
	Hirose electric co., ltd.	Code no.	CL680)-4004-0-50	Λ	2/2