Voltage	Э	able	_	standard	l													
AC 1000V DC AC 1000V DC Applicable Connector APPLICATE			ter	mperature ra	ange	-55°	°C to + 8	35°C(Note	e 1)	temp	erature ranç	ge		-10°C	to + 60	°C(N	ote2)	
Current("1)	g	9	hu	midity range	Э	20'	% to 8	0% (Note	e3)	humi	midity range			40% to 70%(No				
AWG10 43A 38A 33A 33A 34B 3			Vo	oltage			AC 100	00V DC		Арр	·			DF22 -*S-7.92C(DF22#-*S-7.92C(#:)
AWG12 38A 32A 26A AWG14 26A 23A 22A 22A AWG14 26A 23A 22A AWG16 21A 21A 21A 19A AWG16 21A 21A 21A 21A 21A 21A AWG16 21A 21A AWG16 21A 21A AWG16			Сι	urrent(*1)						Curi	rent(*2)					2,3		4,5
ANG14 26A 23A 22A 24A 24							_									25, 20,		22 <i>A</i>
Rated voltage								_							20A	18		15/
UL AC 600V See above(*2) (fremp. rise up 30°C MAX) — TÜV AC 600V See above(*2) TI Specifications Specifications						AWG16	21A	21A	19A					AWG16	15A	15	Α	13 <i>A</i>
Could a Count Cou							Coool				OC)/Nata E)		Insula		IP-P	rotect	o me	thod
See above(*2) II Specifications	-											+					<u>-</u>	
Item	_							. ,	•		,	+		П		IPC	00	
Test method Requirements						Į.		Spe	ecific	atio	ns				ı			
Construction Construction Visually and by measuring instrument. According to drawing. Acco		Ite	em	<u> </u>			Test n	•		<u> </u>			Rec	uirements			QT	A ⁻
Seneral examination Visually and by measuring instrument. According to drawing.	U		-				10011	nouroa					1100	unomento			Q.	
Electric characteristics Contact resistance 20mV MAX, 1mA (DC OR 1000 Hz). 5 mΩ MAX. 1000MΩ MIN. 1000MΩ					Visua	illy and by r	measurin	g instrume	ent.		Accordir	ng to	drawing	g.			Х	Х
Contact resistance 20mV MAX, 1mA (DC OR 1000 Hz). 5 mΩ MAX.					Confi	rmed visua	lly.										Х	X
Mechanical characteristics	(c cl	ha	racteris	stics													1
Voltage proof 2500V AC for 1 min. No flashover or breakdown.	•				20r	mV MAX, 1	mA (DC (OR 1000 I	Hz).		5 m Ω	MAX	ζ.				Х	-
Mechanical characteristics Mechanical operation 50times insertions and extractions. (1) Contact resistance: 10mΩ MAX. (2) No damage, crack or looseness of fibration Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 2 h, for 3 directions. (2) No damage, crack or looseness of fibration Shock 490 m/s² duration of pulse 11 ms at 3 times for 3 directions. Environmental characteristics Rapid change of Temperature -55→ 5 to 35→+85→ 5 TO 35 °C Emperature Time 30→ 5 MAX → 30→ 5 MAX min Under 5 cycles. Damp heat Exposed at 40 ± 2 °C, 90 to 95 %, 96 h. (2) Insulation resistance: 10mΩ MAX. (2) Insulation resistance: 10mΩ MAX. (2) Insulation resistance: 10mΩ MAX. (3) No damage, crack or looseness of the terminals. Resistance to Soldering (Flow) Solder temperature: 260°C for Immersion, duration: 10 sec. (2) Manual soldering Soldering time: 3 sec. No strength on contact. Solderability Soldered at solder temperature, 235°C for insertion duration, 5sec. Remarks Note 1: Including the temperature rising by current. Note 2: No condensing. Note 3: Apply to the condition of long term storage for unused products before mounted on PCB. Atter mounted on PCB, operation temperature and humidity range is applied for interim storage during transportation. Approved H.S. OKAMA Checked T.S. FUKUSHI Designed MI. SAKIMUF Designed MI. SAKIMUF Drawn MI. SAKIMUF	n	n res	sist	tance							1000 N	MΩ N	IIN.				Х	_
Contact resistance: 10mΩ MAX (2) No damage, crack or looseness of the electrical discontinuity of 1 μs. (2) No damage, crack or looseness of the electrical discontinuity of 1 μs. (3) No damage, crack or looseness of directions. (490 m/s² duration of pulse 11 ms at 3 times for 3 directions. (2) No damage, crack or looseness of directions. (3) No electrical discontinuity of 1 μs. (3) No damage, crack or looseness of the emperature (490 m/s² duration of pulse 11 ms at 3 times for 3 directions. (3) No damage, crack or looseness of the emperature (490 m/s² duration of pulse 11 ms at 3 times for 3 directions. (490 m/s² duration of pulse 11 ms at 3 times for 3 directions. (490 m/s² duration of pulse 11 ms at 3 times for 3 directions. (490 m/s² duration of pulse 11 ms at 3 times for 3 directions. (490 m/s² duration of pulse 11 ms at 3 times for 3 directions. (490 m/s² duration of pulse 11 ms at 3 times for 3 directions. (490 m/s² duration of pulse 11 ms at 3 times for 3 directions. (490 m/s² duration of pulse 11 ms at 3 times for 3 directions. (490 m/s² duration of pulse 11 ms at 3 times for 3 directions. (490 m/s² duration of pulse 11 ms at 3 times for 3 directions. (490 m/s² duration of pulse 11 ms at 3 times for 3 directions. (490 m/s² duration of pulse 11 ms at 3 times for 3 directions. (490 m/s² duration of pulse 11 ms at 3 times for 3 directions. (490 m/s² duration of case of excessions of memperature 1200 m/s² duration resistance: 10mΩ MAX. (200	p	oroo	f		250	00V AC for	1 min.				No flash	over	or brea	kdown.			Х	_
Prequency 10 to 55 Hz, single amplitude 1 No electrical discontinuity of 1 μs. 2 No damage, crack or looseness of 1 No electrical discontinuity of 1 μs. 2 No damage, crack or looseness of 1 No electrical discontinuity of 1 μs. 2 No damage, crack or looseness of 1 No electrical discontinuity of 1 μs. 2 No damage, crack or looseness of 1 No electrical discontinuity of 1 μs. 2 No damage, crack or looseness of 3 No damage, crack or looseness of 4 No deformation 4 No d	ì	nic	al	charac	teristi	cs												
Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 2 h, for 3 directions. (2) No damage, crack or looseness of 1 No electrical discontinuity of 1μs. (2) No damage, crack or looseness of 1 No electrical discontinuity of 1μs. (3) No damage, crack or looseness of 2 No damage, crack or looseness of 3 No damage, crack or looseness of 4 No deformation or case of excessive looseness of 5 No deformation of case of excessive looseness of 4 No deformation or case of excessive looseness of 5 No deformation or case of excessive looseness of 6 No deformation or case of excessive looseness of 6 No deformation or case of excessive looseness of 6 No deformation or case of excessive looseness of 6 No deformation or case of excessive looseness of 8 No deformation or case of excessive looseness of 8 No deformation or case of excessive looseness of 8 No deformation or case of excessive looseness of 8 No deformation or case of excessive looseness of 8 No deformation or case of excessive looseness of 8 No deformation or case of excessive looseness of 8 No deformation or case of excessive looseness of 8 No deformation or case of excessive looseness of 8 No deformation or case of excessive looseness of 8 No deformation or case of excessive looseness of 8 No deformation or case of excessive looseness of 8 No deformation 9 No deformation or case of excessive looseness of 8 No deformation 9 No deformation or case of excessive looseness of 8 No deformation 9 No deformati	С	cal c	pe	eration	50t	imes insert	ions and	extraction	ıs.								Х	-
Shock 490 m/s² duration of pulse 11 ms at 3 times for 3 directions. ① No electrical discontinuity of 1 μs. ② No damage, crack or looseness of Environmental characteristics Repid change of emperature Temperature -55→ 5 to 35→85→ 5 TO 35 °C 1 Contact resistance: 10mΩ MAX.	1					-			litude				-			rts.	Х	
directions.									. 0	. (0	_		•			rts.		_
Temperature -55 → 5 to 35 → +85 → 5 TO 35 °C Time 30 → 5 MAX → 30 → 5 MAX min Under 5 cycles. Temperature 30 → 5 MAX → 30 → 5 MAX min Under 5 cycles. Steady state) Exposed at 40 ± 2 °C, 90 to 95 %, 96 h. To contact resistance: 10mΩ MAX. 20 Insulation resistance: 10mΩ MAX. 20 Insu							n of puls	e 11 ms a	t 3 times	s for 3				• •		rts.	X	_
Time 30→ 5 MAX → 30→ 5 MAX min Under 5 cycles. Damp heat (Steady state)	r	nm	er	ntal cha	racte	ristics												
Under 5 cycles. Under 5 cycles. 3 No damage, crack or looseness of Damp heat (Steady state) Exposed at 40 ± 2 °C, 90 to 95 %, 96 h. 1 Contact resistance: 10mΩ MAX. 2 Insulation resistance: 500MΩ MIN. 3 No damage, crack or looseness of Solder temperature: 260°C for Immersion, duration: 10 sec. 2 (2 Manual soldering Soldering from temperature: 350°C Soldering from temperature: 350°C Soldering time: 3 sec. No strength on contact. Solder shall cover a minimum of 235°C for insertion duration, 5 sec. 95 % of the surface being immersed. Remarks Note 1:Including the temperature rising by current. Note 2: No condensing. Note 3: Apply to the condition of long term storage for unused products before mounted on PCB. After mounted on PCB, operation temperature and humidity range is applied for interim storage during transportation. Count Description of revisions Designed Checked Ts. FUKUSHI Designed MI. SAKIMUF Drawn MI. SAKIMUF		_	e o	of													X	
(Steady state) (Steady state) (Steady state) (Steady state) (Discontinuous peak of the surface sould be solder to the solder to the solder to solder temperature: 260°C for Immersion, duration: 10 sec. (Discontinuous peak of the terminals.) (Discontinuous peak of the terminals. (Discontinuous peak of the terminals.) (Discontinuous peak of the terminals. (Discontinuo					Unde	r 5 cycles.				X min	_					rts.	^	
Resistance to soldering heat ① Automatic Soldering (Flow) Solder temperature : 260°C for Immersion,duration : 10 sec . ② Manual soldering Soldering iron temperature : 350°C Soldering time : 3 sec. No strength on contact. Soldered at solder temperature, 235°C for insertion duration, 5 sec. Remarks Note 1:Including the temperature rising by current. Note 2: No condensing. Note 3: Apply to the condition of long term storage for unused products before mounted on PCB. After mounted on PCB, operation temperature and humidity range is applied for interim storage during transportation. Count Description of revisions Designed Checked Checked TS. FUKUSHI Designed MI. SAKIMUF Drawn MI. SAKIMUF Drawn MI. SAKIMUF))		Expo	sed at 40	± 2°C,9	90 to 95 %	, 96 h.		2 Insul	ation	resistar	nce: 500MΩ	MIN.		Х	_
Immersion, duration: 10 sec. ②Manual soldering Soldering iron temperature: 350°C Soldering time: 3 sec. No strength on contact. Solderability Soldered at solder temperature, 235°C for insertion duration, 5sec. Remarks Note 1:Including the temperature rising by current. Note 2: No condensing. Note 3: Apply to the condition of long term storage for unused products before mounted on PCB. After mounted on PCB, operation temperature and humidity range is applied for interim storage during transportation. Count Description of revisions Designed Approved HS. OKAWA Checked TS. FUKUSHI Designed M1. SAKIMUF Drawn M1. SAKIMUF Drawn M1. SAKIMUF	ı	ce to	0		①Au	tomatic Sol	dering (F	low)					_			rts.		
Soldering time: 3 sec. No strength on contact. Solderability Soldered at solder temperature, 235°C for insertion duration, 5 sec. Solder shall cover a minimum of 95 % of the surface being immersed. Remarks Note 1:Including the temperature rising by current. Note 2: No condensing. Note 3: Apply to the condition of long term storage for unused products before mounted on PCB. After mounted on PCB, operation temperature and humidity range is applied for interim storage during transportation. Count Description of revisions Designed Approved HS. OKAWA Checked TS. FUKUSHI Designed M1. SAKIMUF Drawn M1. SAKIMUF	9) hea	at		lmr	mersion,du	ration :				loosene	ss of	the ter	minals.			X	-
Solderability Soldered at solder temperature, 235°C for insertion duration, 5sec. Remarks Note 1:Including the temperature rising by current. Note 2: No condensing. Note 3: Apply to the condition of long term storage for unused products before mounted on PCB. After mounted on PCB, operation temperature and humidity range is applied for interim storage during transportation. Count Description of revisions Designed Checked TS. FUKUSHI Designed MI. SAKIMUF Drawn MI. SAKIMUF					Sol	dering time	e : 3 sec.		C									
Remarks Note 1:Including the temperature rising by current. Note 2: No condensing. Note 3: Apply to the condition of long term storage for unused products before mounted on PCB. After mounted on PCB, operation temperature and humidity range is applied for interim storage during transportation. Count Description of revisions Designed Checked Unless otherwise specifid , refer to IEC 60512. Approved HS. OKAWA Checked TS. FUKUSHI Designed MI. SAKIMUF Drawn MI. SAKIMUF	i	ility													rsed.		Х	_
Unless otherwise specifid , refer to IEC 60512. Approved HS. 0KAWA Checked TS. FUKUSHI Designed MI. SAKIMUF Drawn MI. SAKIMUF	lo k	cludi o co pply intec	to d o	ensing. the conditi	rature rison of lore	sing by currengering term stora	ent. age for ur and humi	nused prod	ucts bef	d for int	unted on P0 erim storag	CB.		sportation.				<u> </u>
Checked TS. FUKUSHI Designed MI. SAKIMUF Drawn MI. SAKIMUF	C	ount	[Desci	ription of re	visions			Des	signed			Check	ea		D	ate
Designed MI. SAKIMUF Drawn MI. SAKIMUF	C	othe	erw	vise spec	ifid , re	fer to IEC	60512.					App	roved	HS.	OKAWA		17.	08. 2
Drawn MI. SAKIMUF												Che	ecked	TS. FU	KUSHIMA			08. 2
												Des	signed					08. 2
Note OT-Ouglification Test AT-Assurance Test V-Assurance Test Test Test Test Test Test Test Tes		T: ^		ifingsia - T	^-	. A o.c	Tost V	Annlineti	Test		D :		rawn			10 0		08. 2 0
Note QT:Qualification Test AT:Assurance Test X:Applicable Test Drawing no. ELC-163 Specification sheet Part no. DF22-*P-7. 920			ual	incation To					e rest	De		no.	n					U
Specification sheet Part no. DF22-*P-7. 920			_		Spe	cificatio	on she	et		Pa	IL IIU.		U	1 ZZ ⁻ *F-/	. ฮ∠บงเ	1 (00)	<i>/</i>	

 \triangle

1/12

CL680

Code no.

HIROSE ELECTRIC CO., LTD.

(Note 5)The value of rated current differs depending on the ambient temperature.

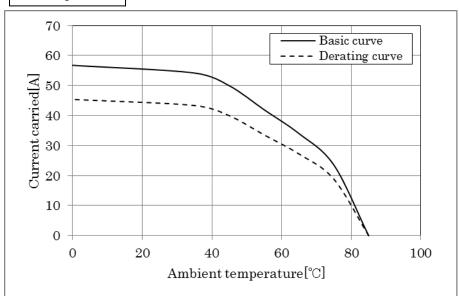
It is recommended to use the product within the derating curve zone.

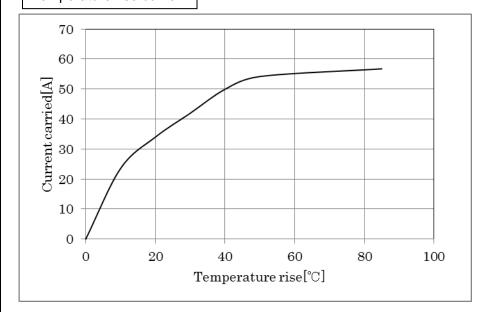
(Note 6) Measurement method of derating curve is shown below.

- Test specimen:Unused DF22-1P-7.92DSA(05)
 - Unused DF22-1S-7.92C Unused DF22A-1012SCF
- Test cable spec:AWG 10
- Test condition: Turn on electricity under the static state and measure.
 (Test report # TR680E-20618)

[Reference]

Derating curve





Note QT:Qualification Test AT:Assurance Test X:Applicable Test		Drawing no.		ELC-163719-06-0		00
HS.	Specification sheet	Part no. DF22-*P-7. 92DSA			(06)	
	Hirose electric co., ltd.	Code no.		CL680	Δ	2/12

(Note 5)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.

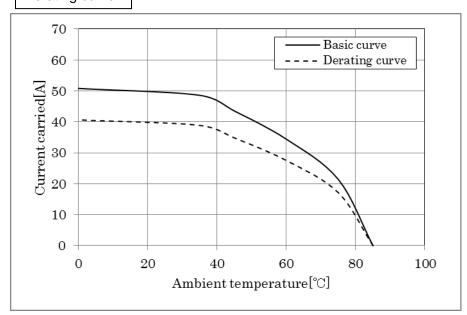
• Test specimen:Unused DF22-3P-7.92DS(05)

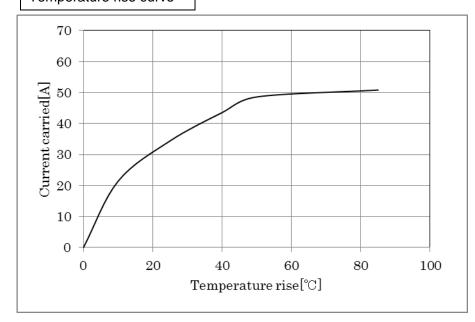
Unused DF22-3S-7.92C Unused DF22A-1012SCF

- Test cable spec:AWG 10
- Test condition: Turn on electricity under the static state and measure.
 (Test report # TR680E-20855)

[Reference]

Derating curve





Note QT:Qualification Test AT:Assurance Test X:Applicable Test		Drawing no.		ELC-163719-06-00		
HRS	Specification sheet	Part no.	DF22-*P-7. 92DSA (06)			
	Hirose electric co., ltd.	Code no.		CL680	⚠	3/12

(Note 5)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.

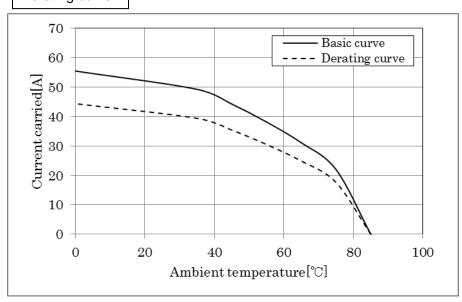
Test specimen:Unused DF22-5P-7.92DSA(05)

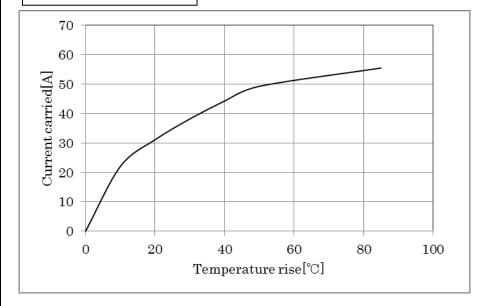
Unused DF22-5S-7.92C

- Unused DF22A-1012SCF
 Test cable spec:AWG 10
- Test condition: Turn on electricity under the static state and measure.
 (Test report # TR680E-20587)

[Reference]

Derating curve





Note QT:Qualification Test AT:Assurance Test X:Applicable Test		Drawing no.		ELC-163719-06-00		
HS	Specification sheet	Part no.	DF22-*P-7. 92DSA (06)			
	Hirose electric co., ltd.	Code no.		CL680	Δ	4/12

(Note 5)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.

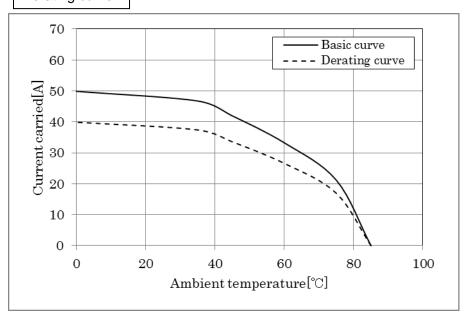
Test specimen:Unused DF22-1P-7.92DS(05)
 Unused DF22-1S-7.92C

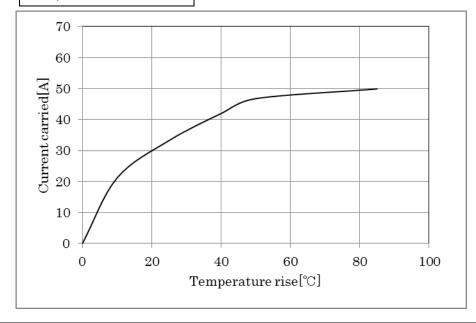
Unused DF22A-1012SCF

- Test cable spec:AWG 12
- Test condition: Turn on electricity under the static state and measure.
 (Test report # TR680E-20855)

[Reference]

Derating curve





Note QT:Qualification Test AT:Assurance Test X:Applicable Test		Drawin	g no.	ELC-163719-06-00		
КS	Specification sheet	Part no.	DF22-*P-7. 92DSA (06)			
	Hirose electric co., ltd.	Code no.		CL680	Δ	5/12

(Note 5)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.

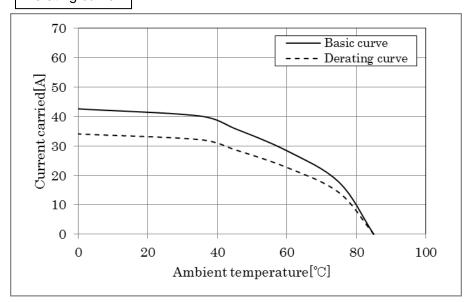
Test specimen:Unused DF22-3P-7.92DS(05)

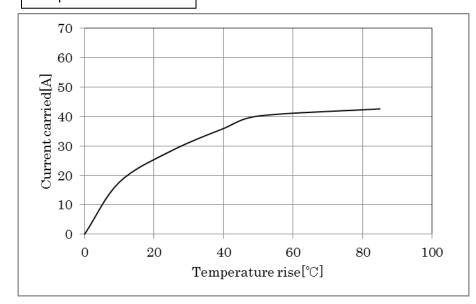
Unused DF22-3S-7.92C

- Unused DF22A-1012SCF
- Test cable spec:AWG 12
- Test condition: Turn on electricity under the static state and measure.
 (Test report # TR680E-20855)

[Reference]

Derating curve





Note QT:Qualification Test AT:Assurance Test X:Applicable Test		Drawing no.		ELC-163719-06-00		
SH.	Specification sheet	Part no.	D	F22-*P-7. 92DSA (06)	
10	Hirose electric co., ltd.	Code no.		CL680	Δ	6/12

(Note 5) 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.

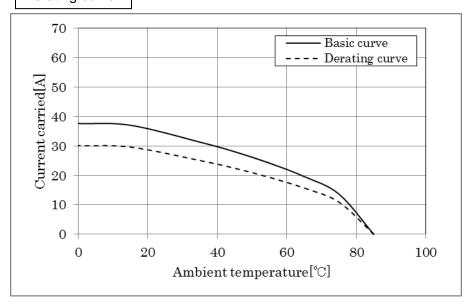
Test specimen:Unused DF22-5P-7.92DSA(05)

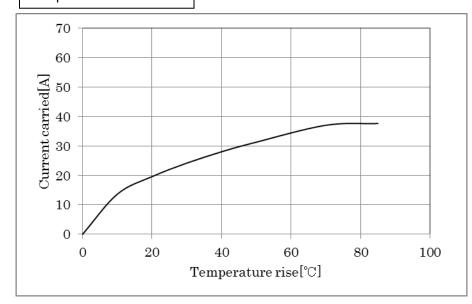
Unused DF22-5S-7.92C

- Unused DF22A-1012SCF
- Test cable spec:AWG 12
- Test condition: Turn on electricity under the static state and measure. (Test report # TR680E-20810)

[Reference]

Derating curve





Note QT:Qualification Test AT:Assurance Test X:Applicable Test		Drawing no.		ELC-163719-06-00		
SH.	Specification sheet	Part no.	D	F22-*P-7. 92DSA (06)	
11.0	Hirose electric co., ltd.	Code no.		CL680	Δ	7/12

(Note 5)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.

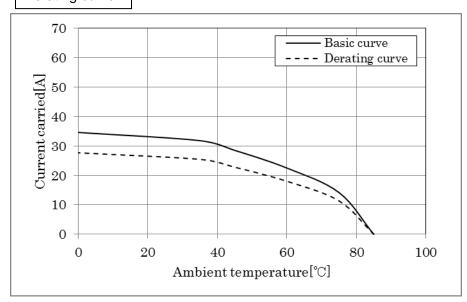
Test specimen:Unused DF22-1P-7.92DSA(05)

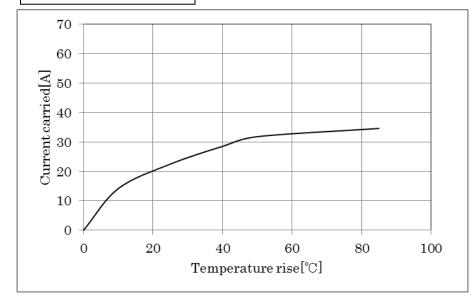
Unused DF22-1S-7.92C

- Unused DF22A-1416SCF
- Test cable spec:AWG 14
- Test condition: Turn on electricity under the static state and measure.
 (Test report # TR680E-20855)

[Reference]

Derating curve





Note QT:Qualification Test AT:Assurance Test X:Applicable Test		Drawing no.		ELC-163719-06-00		
HRS	Specification sheet	Part no.	D	F22-*P-7. 92DSA (06)	
	Hirose electric co., ltd.	Code no.		CL680	Δ	8/12

(Note 5)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.

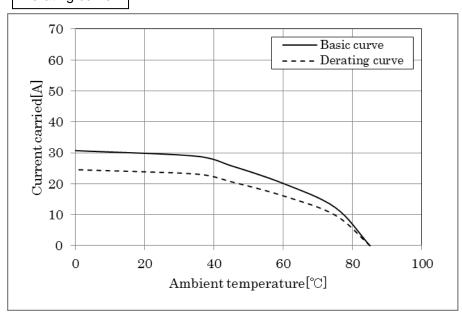
Test specimen:Unused DF22-3P-7.92DS(05)

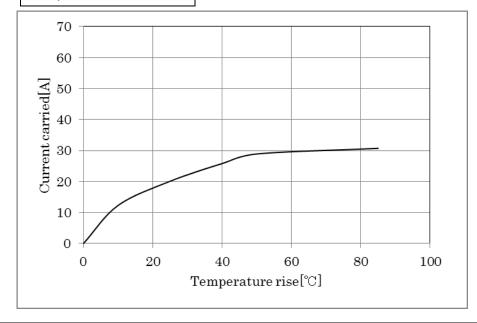
Unused DF22-3S-7.92C

- Unused DF22A-1416SCF
- Test cable spec:AWG 14
- Test condition: Turn on electricity under the static state and measure.
 (Test report # TR680E-20855)

[Reference]

Derating curve





Note QT:Qualification Test AT:Assurance Test X:Applicable Test		Drawin	g no.	ELC-163719-06-00		
RS.	Specification sheet	Part no.	DF22-*P-7. 92DSA (06)			
	Hirose electric co., ltd.	Code no.		CL680	Δ	9/12

(Note 5)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 DF22-5P-7.92DSA(05)

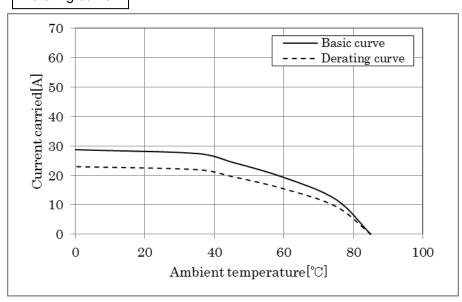
Unused DF22-5S-7.92C

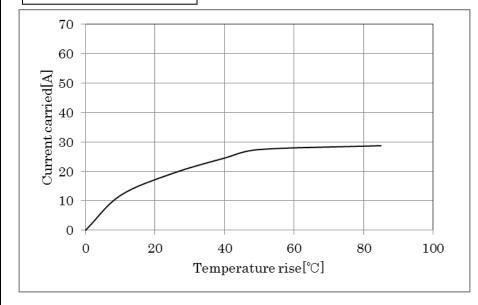
Unused DF22A-1416SCF

- Test cable spec:AWG 14
- Test condition: Turn on electricity under the static state and measure. (Test report # TR680E-20855)

[Reference]

Derating curve





Note QT:Qualification Test AT:Assurance Test X:Applicable Test		Drawing no.		ELC-163719-06-00		
HRS	Specification sheet	Part no.	DF22-*P-7. 92DSA (06)			
	Hirose electric co., ltd.	Code no.		CL680	Δ	10/12

(Note 5)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.

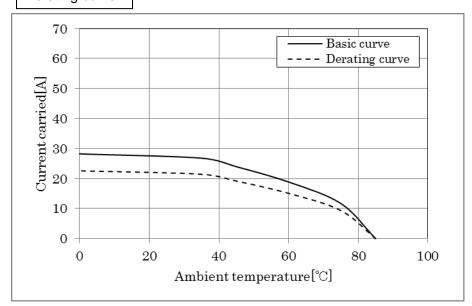
Test specimen:Unused DF22-3P-7.92DS(05)

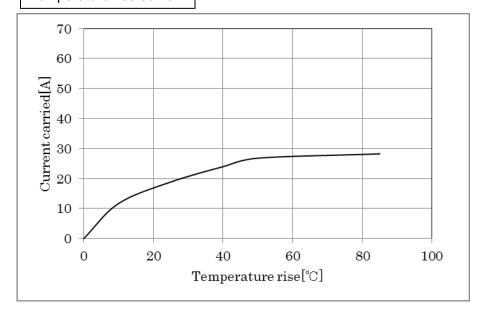
Unused DF22-3S-7.92C

- Unused DF22A-1416SCF
- Test cable spec:AWG 16
- Test condition: Turn on electricity under the static state and measure.
 (Test report # TR680E-20855)

[Reference]

Derating curve





Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	Drawing no.		ELC-163719-06-00			
HS	Specification sheet	Part no.	Part no. DF22-*P-7. 92DSA (06)				
	Hirose electric co., ltd.	Code no.		CL680	\triangle	11/12	

(Note 5)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.

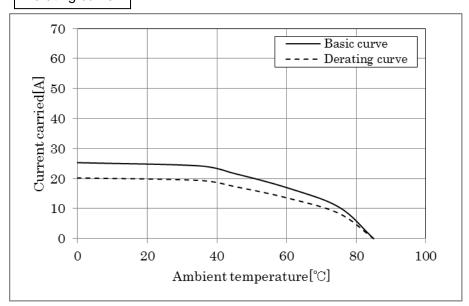
Test specimen:Unused DF22-5P-7.92DSA(05)

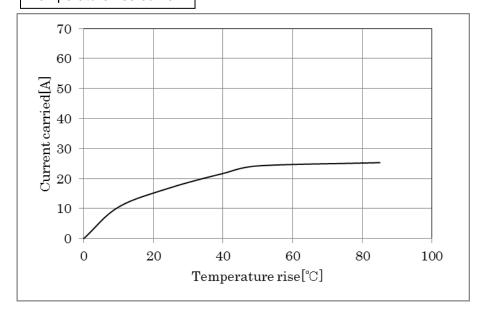
Unused DF22-5S-7.92C

- Unused DF22A-1416SCF
- Test cable spec:AWG 16
- Test condition: Turn on electricity under the static state and measure.
 (Test report # TR680E-20855)

[Reference]

Derating curve





Note QT:Qualification Test AT:Assurance Test X:Applicable Test		Drawing no.		ELC-163719-06-00		
HRS	Specification sheet		DF22-*P-7. 92DSA (06)			
	Hirose electric co., ltd.	Code no.		CL680	\triangle	12/12